

 <b>SNAM RETE GAS</b>	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	Fg. 1 di 81	<b>Rev.</b> <b>0</b>

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**METANODOTTO**  
**INTERCONNESSIONE TAP DN 1400(56"), DP 75 bar**  
**TERMINALE SRG DI MELENDUGNO (LE)**

**BASAMENTO PER TRALICCIO SOSTEGNO DOPPIA CANDELA**  
**TERMINALE SRG DI MELENDUGNO (LE)**

**RELAZIONE GEOTECNICA E SULLE FONDAZIONI**

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## 1 GENERALITA'

### 1.1 Introduzione

La presente relazione, redatta su incarico di Snam Rete Gas S.p.A., ha come oggetto la realizzazione geotecnica del basamento in c.a. per il traliccio in acciaio di sostegno della doppia candela di scarico DN250 e DN500, ubicato all'interno del nuovo impianto terminale di Melendugno (LE).

Per la redazione del presente studio è stato preventivamente raccolto del materiale bibliografico inerente, studi geologici, geomorfologici, idrogeologici esistenti nelle zone limitrofe al tracciato; carte tematiche dell'area, foto aeree e supporti topografici.

Rilievi ed indagini sul terreno, unitamente alle informazioni di carattere bibliografico acquisite, hanno permesso di chiarire la situazione geologica di superficie, le modalità operative dell'indagine geognostica e, ancora, di definire i caratteri geomorfologici del sito in oggetto.

### 1.2 Documenti di riferimento

- REL. RE-STRU-111  
BASAMENTO TRALICCIO DOPPIA CANDELA - RELAZIONE DI CALCOLO STRUTTURALE
- REL. RE-GSIS-102  
RELAZIONE GEOLOGICA E SISMICA

#### Elaborati grafici di riferimento

- DIS. CIV-106  
PLANIMETRIA FONDAZIONI
- DIS. CIV-119  
TRALICCIO SOSTEGNO DOPPIA CANDELA
- DIS. CIV-111  
BASAMENTO TRALICCIO DOPPIA CANDELA - CASSERI ED ARMATURE

### 1.3 Normativa di Riferimento

I calcoli sono condotti nel pieno rispetto della normativa vigente e, in particolare, la normativa cui viene fatto riferimento nelle fasi di calcolo, verifica e progettazione è costituita dalle *Norme Tecniche per le Costruzioni*, emanate con il D.M. 14/01/2008 pubblicato nel suppl. 30 G.U. 29 del 4/02/2008 e la Circolare 2/02/2009 n. 617 -Istruzioni per l'applicazione delle 'Nuove norme tecniche per le costruzioni' di cui al D.M. 14/01/08.

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## 2 CARATTERIZZAZIONE LITOSTRATIGRAFICA E GEOTECNICA

### 2.1 Sondaggi meccanici

La finalità delle indagini in sito è stata quella di ricostruire le principali caratteristiche e i lineamenti del sottosuolo, con particolare riferimento alla natura litologica e stratigrafica. Inoltre è stato possibile avere utili informazioni circa lo spessore degli strati e le loro caratteristiche strutturali e idrogeologiche.

In particolare per la caratterizzazione litostratigrafica e geotecnica si fa riferimento a due sondaggi BH4B\_BIS e BH6Bbis, forniti dal committente ed eseguiti in prossimità del limite dell'area oggetto d'intervento e finalizzati alla caratterizzazione geognostica dell'area destinata ad ospitare l'impianto di Melendugno del TAP.

Il materiale prelevato durante le perforazioni è stato depositato in apposite cassette catalogatrici, in materiale plastico, su cui sono state annotate le profondità di prelievo delle carote e la profondità di esecuzione delle prove geotecniche in situ.

Il carotiere è costituito da un tubo metallico cilindrico avente diametro esterno di 101 mm munito all'estremità inferiore di una corona dentata al widia e provvisto, nella parte sommatatale, di un dispositivo (valvola di ritenzione) che impedisce la perdita dei campioni di terreno prelevati.

Il prelievo dei campioni indisturbati è stato effettuato mediante campionatore a pareti sottili in acciaio inox del diametro di 85 mm, infisso a pressione.

Inoltre durante la perforazione sono state seguite prove penetrometriche dinamiche:

N° sondaggio	Profondità (m)	Profondità prove S.P.T. (m)	Profondità prelievo Campioni indisturbati (m)
BH4B_BIS	40,00	1,50	0,40-1,00 4,20-4,50
BH6Bbis	40,00		2,00-2,45

**Tabella 2.1.A:** sondaggi e prove SPT



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**Fig 2.1.A:** Ubicazione sondaggi geognostici e masw

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## 2.2 Ricostruzione stratigrafica e parametri geotecnici desunti dalle prove S.P.T.

### SONDAGGIO BH4B\_BIS

Il sondaggio BH4\_BIS è stato eseguito sul limite Ovest dell'area interessata dal progetto ed ha raggiunto la profondità di 40 metri.

Dalla stratigrafia si evidenzia, al di sotto uno strato di circa 0,40 m di spessore caratterizzato da una coltre pedogenetica rossastra, un livello costituito da argilla siltosa rossastra con clasti calcarei che si spinge fino alla profondità di 4 metri dal piano campagna. Successivamente si ha 1,20 metri di argilla siltosa giallastra con clasti calcarei. Da 5,20 a 9,40 m un livello costituito da calcarenite giallastra grossolana, molto fratturata.

Proseguendo in profondità fino a 13,40 m si ha un livello di sabbia siltosa, giallastri con clasti calcarenitici, ed infine fino a fondo foro (40 m) si ha un deposito calcarenitico con un grado di fratturazione da basso a medio. Talvolta, nelle fratture si possono avere argille grigiastre.

Profondità (m)	Valori prova S.P.T.	N <sub>SPT</sub> colpi/30 cm	Dr (%)	Φ (°)	E' (Mpa)	γ <sub>sat</sub> (t/m <sup>3</sup> )	γ <sub>d</sub> (t/m <sup>3</sup> )	Modulo di taglio G (Mpa)
1,50	16-15-16	31	77	31	17.5	2,00÷2,20	1.80÷1.90	195

Dove **Dr** rappresenta la densità relativa (%), **Φ** indica l'angolo di attrito del terreno (°), **E'** rappresenta il modulo di Young (Mpa), **γ<sub>sat</sub>** indica il peso di volume del terreno in condizioni sature (t/m<sup>3</sup>), **γ<sub>d</sub>** indica il peso di volume del terreno (t/m<sup>3</sup>) e **G** Modulo di taglio (Mpa).

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### SONDAGGIO BH6B\_BIS

Il sondaggio BH6B\_Bis è stato eseguito sul limite Nord dell'area interessata dal progetto e mostra sottile livello pedogenetico (10 cm) che mantella in modo discontinuo un livello sabbioso siltoso con clasti calcarenitici giallastro che si spinge fino alla profondità di 9.60 m dal piano campagna. Successivamente si ha un livello costituito da sabbia siltosa e sabbia con clasti calcarenitici. Proseguendo in profondità fino a fondo foro (40m) si ha il substrato calcarenitico, talvolta calcilutite o calcirudite, da fratturato a molto fratturato.

Profondità (m)	Valori prova S.P.T.	N <sub>SPT</sub> colpi/30 cm	Dr (%)	Φ (°)	E' (Mpa)	Y <sub>sat</sub> (t/m <sup>3</sup> )	Y <sub>d</sub> (t/m <sup>3</sup> )	Modulo di taglio G (Mpa)
2,00	12-22-28	40	82	32	22.6	2,00÷2,20	1.80÷1.90	176

Dove **Dr** rappresenta la densità relativa (%), **Φ** indica l'angolo di attrito del terreno (°), **E'** rappresenta il modulo di Young (Mpa), **ysat** indica il peso di volume del terreno in condizioni sature (t/m<sup>3</sup>), **yd** indica il peso di volume del terreno (t/m<sup>3</sup>) e **G** Modulo di taglio (Mpa).

### 2.3 Prospezioni geofisiche (MASW)

L'indagine geofisica eseguita è stata finalizzata alla definizione delle principali caratteristiche elastiche dinamiche dei litotipi presenti nei siti in esame. Per tale scopo sono state eseguite due prospezioni sismiche con metodologia MASW (Multichannel Analysis Of Surface Waves), che consentono di definire profili verticali delle onde di taglio (Vs) mediante un'analisi della dispersione delle velocità delle onde di fase di Rayleigh.

L'esecuzione di tali indagini ha consentito di determinare le velocità delle Vs fino alla profondità di 30 metri dal piano campagna. La Masw 1 ha evidenziato una Vs<sub>30</sub> di 731 m/s, pertanto un suolo di categoria B. Le Vs<sub>30</sub> della Masw 2 risultano invece pari a 943 m/s. con suolo di categoria A. Tali risultati sono coerenti con il contesto litologico dell'area, infatti in base al grado di alterazione e fratturazione dei litotipi rocciosi si possono avere entrambi le categorie di sottosuolo sismico. In ogni caso nella modellazione sismica viene considerato un suolo di categoria B in quanto più cautelativo.



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### 3 MODELLO GEOLOGICO E GEOTECNICO

#### 3.1 Modello geologico

La finalità delle indagini in sito è quella di ricostruire le principali caratteristiche e i lineamenti del sottosuolo, con particolare riferimento alla natura litologica e stratigrafica, oltre che definire le caratteristiche sismiche dei litotipi affioranti.

Le indagini eseguite hanno evidenziato la presenza di uno strato sottile strato pedogenetico che ricopre in modo discontinuo dei livelli con spessore variabile da 13,20/14,30, costituito da sabbie e sabbie siltose con abbondante clasti calcarenitici. Al di sotto si ha il substrato costituito da calcarenite con diversi gradi di fratturazione.

Talvolta le fratture della calcarenite sono riempite da materiale sabbioso argilloso siltosi di colore bruno rossastro derivante dal residuo insolubile delle rocce carbonatiche.

#### 3.2 Modello geotecnico

Le indagini eseguite, unitamente alle osservazioni di superficie fatte con il rilevamento geologico hanno consentito la ricostruzione della stratigrafia del sito e sono state desunte le caratteristiche geotecniche dei terreni di fondazione

Nel dettaglio il modello geotecnico desunto dalle indagini in situ e dalle considerazioni di carattere prettamente geologico-stratigrafiche, si evince che il sito è costituito da rocce carbonatiche annoverabili tra le calcareniti a diverso grado di fratturazione e cementazione. In superficie la calcarenite risulta alterata e degradata da essere assimilabile, dal punto di vista geotecnico ad un sabbia o sabbia siltosa

Gli elementi di conoscenza ricavati dall'esame comparato delle indagini eseguite risultano più che sufficienti per giungere alla caratterizzazione geotecnica dei terreni di fondazione.

Nella tabella seguente vengono individuati i valori caratteristici dei parametri geotecnici dei vari livelli individuati con le indagini effettuate e riportate nell'Annesso 2, a cui si rimanda per una trattazione puntuale e di dettaglio. Nella tabella seguente vengono riportati i principali valori geomeccanici medi dei litotipi.

MODELLO GEOTECNICO			
Litotipi (m)	Profondità (m)	$\gamma$ (KN/m <sup>3</sup> )	$\Phi$ (°)
Livello superficiale pedogenizzato	Da 0 – a 0.40	-	-
Sabbie e sabbie siltose con abbondanti clasti calcarenitici	Da 0.40 a 13,20/13,30	18,14	31
Calcarenite da debolmente a fortemente alterate	Da 13,20/13,30 a 40 ed oltre	19,5	38

Dove:  $\Phi$  indica l'angolo di attrito del terreno (°),  $\gamma$  indica il peso di volume del terreno (Kn/m<sup>3</sup>)



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#### 4 CONCLUSIONI

Dall'analisi di superficie effettuata tramite fotointerpretazione, dai sopralluoghi diretti in campo e dalle indagini eseguite sono stati delineati gli elementi geologici, morfologici, idrogeologici generali per l'area interessata dal progetto.

In particolare per l'area in esame non emergono problematiche rilevanti in quanto la morfologia pianeggiante del tratto investigato non pone particolari problemi da un punto di vista geomorfologico.

Inoltre le indagini eseguite (sondaggi geognostici e prospezioni sismiche) non evidenziano particolari condizioni di criticità legate ai fenomeni carsici, in quanto il substrato litologico è costituito da un livello superficiale sabbioso siltoso con abbondanti clasti calcarenitici, con profondità variabile (da 13,20 a 14, 30) dal piano campagna. Al di sotto si ha il substrato calcarenitico a diversi gradi di fratturazione. I litotipi sono ricoperti da un sottile strato pedogenizzato, sabbioso siltoso leggermente argilloso (terre rosse), derivante dall'alterazione del residuo insolubile delle rocce carbonatiche. Lo spessore della coltre pedogenetica varia da 10 a 40 cm, infatti è ricorrente osservare una elevata rocciosità affiorante.

Relativamente alle aree a pericolosità censite dall'Autorità di Bacino della Regione Puglia l'area interessata dagli interventi progettuali non interferisce con area a pericolosità idraulica e da frana.

Dal punto di vista geotecnico le litologie affioranti nell'area, ad eccezione del livello superficiale che costituisce la coltre pedogenizzata con spessore compreso tra 10 e 40 cm dalla superficie topografica, sono caratterizzati da un elevato angolo di attrito interno (> di 30°) e di un peso dell'unità di volume maggiore di 18,00 kN/m<sup>3</sup>.

Infine, Dall'analisi della pericolosità sismica di base si evince che il sito è caratterizzato da una accelerazione orizzontale massima su suolo rigido e pianeggiante compresa tra 0,028 e 0,10 g per i diversi stati limiti considerati. La pericolosità sismica locale è definita da una categoria di sottosuolo di tipo B e da una categoria topografica T1.

In conclusione, in base alle considerazioni fatte, le verifiche geotecniche agli stati limite per carico limite e cedimenti risultano ampiamente soddisfatte e compatibili con l'uso per cui vengono progettati nonché compatibili con il contesto geologico, idrogeologico e sismico dell'area.

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## RELAZIONE GEOTECNICA E SULLE FONDAZIONI

Sono illustrati con la presente i risultati dei calcoli che riguardano il progetto delle armature, la verifica delle tensioni di lavoro dei materiali e del terreno.

### • **NORMATIVA DI RIFERIMENTO**

I calcoli sono condotti nel pieno rispetto della normativa vigente e, in particolare, la normativa cui viene fatto riferimento nelle fasi di calcolo, verifica e progettazione è costituita dalle *Norme Tecniche per le Costruzioni*, emanate con il D.M. 14/01/2008 pubblicato nel suppl. 30 G.U. 29 del 4/02/2008, nonché la Circolare del Ministero Infrastrutture e Trasporti del 2 Febbraio 2009, n. 617 "Istruzioni per l'applicazione delle nuove norme tecniche per le costruzioni".

Per il calcolo delle strutture in oggetto si adotteranno i criteri della Geotecnica e della Scienza delle Costruzioni.

### • **CAPACITÀ PORTANTE DI FONDAZIONI SUPERFICIALI**

La verifica della capacità portante consiste nel confronto tra la pressione verticale di esercizio in fondazione e la pressione limite per il terreno, valutata secondo *Brinch-Hansen*:

$$q_{lim} = q N_q Y_q i_q d_q b_q g_q s_q + c N_c Y_c i_c d_c b_c g_c s_c + \frac{1}{2} G B' N_g Y_g i_g b_g s_g$$

dove

#### Caratteristiche geometriche della fondazione:

$q$  = carico sul piano di fondazione  
 $B$  = lato minore della fondazione  
 $L$  = lato maggiore della fondazione  
 $D$  = profondità della fondazione  
 $\alpha$  = inclinazione base della fondazione  
 $G$  = peso specifico del terreno  
 $B'$  = larghezza di fondazione ridotta =  $B - 2 e_B$   
 $L'$  = lunghezza di fondazione ridotta =  $L - 2 e_L$

#### Caratteristiche di carico sulla fondazione:

$H$  = risultante delle forze orizzontali  
 $N$  = risultante delle forze verticali  
 $e_B$  = eccentricità del carico verticale lungo  $B$   
 $e_L$  = eccentricità del carico verticale lungo  $L$   
 $F_h B$  = forza orizzontale lungo  $B$   
 $F_h L$  = forza orizzontale lungo  $L$

#### Caratteristiche del terreno di fondazione:

$\beta$  = inclinazione terreno a valle  
 $c = c_u$  = coesione non drenata (condizioni  $U$ )  
 $c = c'$  = coesione drenata (condizioni  $D$ )

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$\Gamma = \text{peso specifico apparente (condizioni U)}$   
 $\Gamma = \Gamma' = \text{peso specifico sommerso (condizioni D)}$   
 $\phi = 0 = \text{angolo di attrito interno (condizioni U)}$   
 $\phi = \phi' = \text{angolo di attrito interno (condizioni D)}$

Fattori di capacità portante:

$$Nq = \tan^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \exp(\pi \cdot \tan \phi) \quad (\text{Prandtl-Cauchot-Meyerhof})$$

$$Ng = 2(Nq + 1) \tan \phi \quad (\text{Vesic})$$

$$Nc = \frac{Nq - 1}{\tan \phi} \quad \text{in condizioni D} \quad (\text{Reissner-Meyerhof})$$

$$Nc = 5,14 \quad \text{in condizioni U}$$

Indici di rigidezza (condizioni D):

$$Ir = \frac{G}{c' + q' \tan \phi} = \text{indice di rigidezza}$$

$$q' = \text{pressione litostatica efficace alla profondità } D + \frac{B}{2}$$

$$G = \frac{E}{2(1 + \mu)} = \text{modulo elastico tangenziale}$$

$E = \text{modulo elastico normale}$

$\mu = \text{coefficiente di Poisson}$

$$Icr = \frac{1}{2} \exp\left[\frac{3,3 - 0,45 \frac{B}{L}}{\tan(45 - \frac{\phi'}{2})}\right] = \text{indice di rigidezza critico}$$

Coefficienti di punzonamento (Vesic):

$$Yq = Yg = \exp\left[\left(0,6 \frac{B}{L} - 4,4\right) \tan \phi' + \frac{3,07 \sin \phi' \log(2Ir)}{1 + \sin \phi'}\right] \text{ in condizioni drenate, per } Ir \leq Icr$$

$$Yc = Yq - \frac{1 - Yq}{Nq \times \tan \phi'}$$

Coefficienti di inclinazione del carico (Vesic):

$$ig = \left(\frac{1 - H}{N + B \times L \times c' \times \cot \text{ang } \phi'}\right)^{m+1}$$

$$iq = \left(\frac{1 - H}{N + B \times L \times c' \times \cot \phi'}\right)^m$$

$$ic = iq - \frac{1 - iq}{Nc \times \tan \phi'} \quad \text{in condizioni D}$$

$$ic = 1 - \frac{m \times H}{B \times L \times cu \times Nc} \quad \text{in condizioni U}$$

essendo:

$$m = mB \cos^2 \Theta + mL \sin^2 \Theta$$

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$$mB = \frac{2 + \frac{B'}{L'}}{1 + \frac{B'}{L'}} \quad mL = \frac{2 + \frac{L'}{B'}}{1 + \frac{L'}{B'}} \quad \Theta = \tan^{-1} \frac{Fh \times B}{Fh \times L}$$

Coefficienti di affondamento del piano di posa (Brinch-Hansen):

$$dq = 1 + 2 \tan \phi (1 - \sin \phi)^2 \operatorname{arctg} \frac{D}{B'} \quad \text{per } D > B'$$

$$dq = 1 + 2 \frac{D}{B'} \tan \phi (1 - \sin \phi)^2 \quad \text{per } D \leq B'$$

$$dc = dq - \frac{1 - dq}{Nc \times \tan \phi} \quad \text{in condizioni D}$$

$$dc = 1 + 0,4 \operatorname{arc} \tan \frac{D}{B'} \quad \text{per } D > B' \text{ in condizioni U}$$

$$dc = 1 + 0,4 \frac{D}{B'} \quad \text{per } D \leq B' \text{ in condizioni U}$$

Coefficienti di inclinazione del piano di posa:

$$bg = \exp(-2,7\alpha \tan \phi)$$

$$bc = bq = \exp(-2\alpha \tan \phi) \quad \text{in condizioni D}$$

$$bc = 1 - \frac{\alpha}{147} \quad \text{in condizioni U}$$

$$bq = 1 \quad \text{in condizioni U)}$$

Coefficienti di inclinazione del terreno di fondazione:

$$gc = gq = \sqrt{1 - 0,5 \tan \beta} \quad \text{in condizioni D}$$

$$gc = 1 - \frac{\beta}{147} \quad \text{in condizioni U}$$

$$gq = 1 \quad \text{in condizioni U}$$

Coefficienti di forma (De Beer):

$$sg = 1 - 0,4 \frac{B'}{L'}$$

$$sq = 1 + \frac{B'}{L'} \tan \phi$$

$$sc = 1 + \frac{B' Nq}{L' Nc}$$

L'azione del sisma si traduce in accelerazioni nel sottosuolo (effetto cinematico) e nella fondazione, per l'azione delle forze d'inerzia generate nella struttura in elevazione (effetto inerziale). Tali effetti possono essere portati in conto mediante l'introduzione di coefficienti sismici rispettivamente denominati  $K_{hi}$  e  $I_{gk}$ , il primo definito dal rapporto tra le componenti orizzontale e verticale dei carichi trasmessi in fondazione ed il secondo funzione dell'accelerazione massima attesa al sito. L'effetto inerziale produce variazioni di tutti i coefficienti di capacità portante del carico limite in funzione del coefficiente sismico  $K_{hi}$  e viene portato in conto impiegando le formule comunemente adottate per calcolare i coefficienti correttivi del carico limite in funzione dell'inclinazione, rispetto alla verticale, del carico agente sul piano di posa. Nel caso in cui sia

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stato attivato il flag per tener conto degli effetti cinematici il valore  $I_{gk}$  modifica invece il solo coefficiente  $N_g$ ; il fattore  $N_g$  viene infatti moltiplicato sia per il coefficiente correttivo dell'effetto inerziale, sia per il coefficiente correttivo per l'effetto cinematico.

## • CAPACITÀ PORTANTE DELLE PLATEE

La verifica agli S.L.U. delle platee di fondazione risulta particolarmente difficoltosa poiché tali fondazioni spesso hanno forme non rettangolari e pertanto non è possibile valutarne la capacità portante attraverso le classiche formule della geotecnica.

Per potere valutare la portanza delle platee si è quindi implementato un tipo di verifica in cui la fondazione viene modellata per intero (potendo essere costituita, nella forma più generale, da travi rovesce, plinti, pali e platee).

In particolare, gli elementi strutturali vengono modellati in campo elastico lineare, mentre il terreno viene modellato come un letto di molle:

- lineari elastiche e non reagenti a trazione per le platee;
- molle non lineari elasto-plastiche non reagenti a trazione per le travi *Winkler* ed i plinti diretti.

Per le molle elastiche delle platee viene calcolato anche il limite elastico, al fine di bloccare il calcolo del moltiplicatore dei carichi qualora venga raggiunto tale limite.

Il legame di tipo elastico reagente a sola compressione è ottenuto utilizzando come rigidità all'origine la costante di *Winkler* del terreno. Il modello così ottenuto è in grado di tenere in conto dell'eterogeneità del terreno in maniera puntuale. Su tale modello viene quindi condotta un'analisi non lineare a controllo di forza immettendo le forze agenti sulla fondazione.

Il calcolo viene interrotto quando le molle delle platee attingono al loro limite elastico o qualora venga raggiunto uno stato di incipiente formazione di cerniere plastiche nelle travi *Winkler*. In corrispondenza a tali eventi viene calcolato il moltiplicatore dei carichi.

## • CALCOLO DEI CEDIMENTI

Il calcolo viene eseguito sulla base della conoscenza delle tensioni nel sottosuolo.

$$\mu = \int \frac{\sigma(z)}{E} dz$$

essendo

$E$  = modulo elastico o edometrico

$\sigma(z)$  = tensione verticale nel sottosuolo dovuta all'incremento di carico  $q$

La distribuzione delle tensioni verticali viene valutata secondo l'espressione di *Steinbrenner*, considerando la pressione agente uniformemente su una superficie rettangolare di dimensioni  $B$  e  $L$ :

$$\sigma(z) = \frac{q}{4\pi} \left[ \frac{2 \times M \times N \times \sqrt{V} \times (V+1)}{V(V+V1)} + \left| \arctan \frac{2 \times M \times N \times \sqrt{V}}{V-V1} \right| \right]$$

con:

$$M = B / z$$



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$$N = L / z$$

$$V = M^2 + N^2 + 1$$

$$V1 = (M \times N)^2$$

• **VERIFICHE ALLO STATO LIMITE DI DANNO DELLE FONDAZIONI SUPERFICIALI (NTC 2008 7.11.5.3.1)**

La verifica consiste nel controllare che la componente permanente degli spostamenti indotti dal sisma sia compatibile con la prestazione SLD della sovrastruttura.

Per determinare gli spostamenti permanenti post-sisma nel terreno si effettua una analisi non lineare del sistema fondazione-terreno modellando il terreno con un sistema di molle con legame costitutivo P-Y di tipo iperbolico, mediante le seguenti formule:

$$p(u) = \frac{u}{\frac{1}{E_s} + \frac{u}{p_u}}$$

essendo:

- p(u) : pressione di contatto
- u: cedimento non lineare
- Es: rigidità tangente all'origine del terreno valutato come  $u_e/p$  ovvero come rapporto del cedimento elastico istantaneo e la pressione di contatto che lo provoca
- pu: pressione ultima del terreno valutato per i valori caratteristici del terreno

Lo spostamento permanente sarà quindi lo spostamento complessivo depurato della parte reversibile elastica:

$$u_r = u(p) - \frac{p}{E_s}$$

Tali spostamenti permanenti si determinano quindi come segue:

- si implementa il sistema fondazione + terreno non lineare secondo il modello sopra descritto;
- si esegue il calcolo non lineare del sistema fondazione-terreno imponendo i carichi dello SLD;
- si portano a zero i carichi esterni e si valutano gli spostamenti residui (che sono appunto i cedimenti permanenti SLD cercati).

La verifica di compatibilità degli spostamenti viene quindi effettuata dal progettista in funzione delle caratteristiche della struttura e delle prestazioni assegnate ovvero utilizzando un riferimento tecnico riconosciuto dalla NTC 2008 quali UNI EN 2007, FEMA 27X, Circolari applicative, linee guida, etc...

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- SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa dei dati geometrici delle travi *Winkler*.

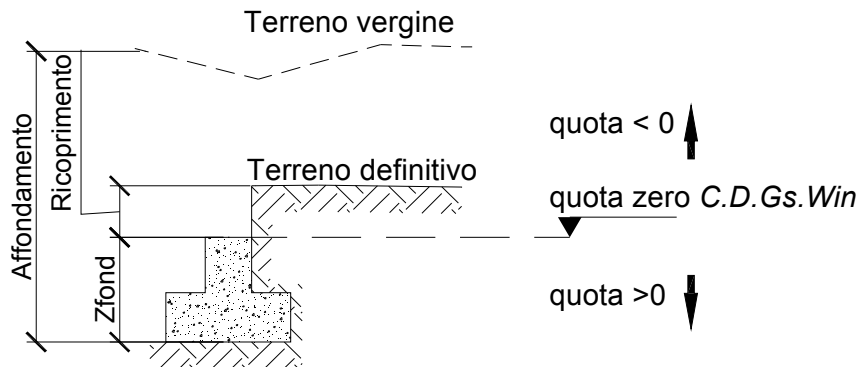
<b>Trave</b>	: <i>numero sequenziale della trave</i>
<b>Asta3d</b>	: <i>numero asta tipo in C.D.S. Win (spaziale)</i>
<b>Filo Iniz</b>	: <i>primo filo fisso</i>
<b>Filo Fin.</b>	: <i>secondo filo fisso</i>
<b>Nodo3d In.</b>	: <i>numero Nodo3d primo filo fisso</i>
<b>Nodo3d Fin</b>	: <i>numero Nodo3d secondo filo fisso</i>
<b>X3d In.</b>	: <i>ascissa Nodo3d Iniziale</i>
<b>Y3d In.</b>	: <i>ordinata Nodo3d Iniziale</i>
<b>Z3d In.</b>	: <i>quota Nodo3d Iniziale</i>
<b>X3d Fin</b>	: <i>ascissa Nodo3d finale</i>
<b>Y3d Fin</b>	: <i>ordinata Nodo3d finale</i>
<b>Z3d Fin</b>	: <i>quota Nodo3d finale</i>
<b>Xfond</b>	: <i>ascissa baricentro fondazione</i>
<b>Yfond</b>	: <i>ordinata baricentro fondazione</i>
<b>Zfond</b>	: <i>quota baricentro base di fondazione nel riferimento di C.D.Gs. Win</i>
<b>Bfond</b>	: <i>dimensione trasversale trave Winkler</i>
<b>Lfond</b>	: <i>dimensione longitudinale trave Winkler</i>

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• **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa della stratigrafia del terreno sottostante le travi Winkler.



**NOTA:** La quota zero di C.D.Gs. Win coincide con la quota numero zero dell'alberello quote di C.D.S. Win ma cambia la convenzione nel segno: infatti in C. D. Gs. le quote sono positive crescenti procedendo verso il basso, mentre in C. D. S. le quote sono positive crescenti verso l'alto.

<b>Trave</b>	: numero di trave
<b>Q.t.v.</b>	: quota terreno vergine
<b>Q.t.d.</b>	: quota definitiva terreno
<b>Q.falda</b>	: quota falda
<b>InclTer</b>	: inclinazione terreno
<b>Numero strato</b>	: Numero dello strato a cui si riferiscono i dati che seguono
<b>Sp.str.</b>	: Spessore strato. L'ultimo strato ha spessore indefinito, pertanto il relativo dato non viene stampato
<b>Peso Sp</b>	: peso specifico
<b>Fi</b>	: angolo di attrito interno in gradi
<b>C'</b>	: coesione drenata
<b>Cu</b>	: coesione non drenata
<b>Mod.El.</b>	: modulo elastico
<b>Poisson</b>	: coefficiente di Poisson
<b>Gr.Sovr</b>	: grado di sovraconsolidazione
<b>Mod.Ed</b>	: modulo edometrico

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● **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa della portanza delle fondazioni superficiali (travi Winkler, plinti e piastre) in condizioni drenate e non drenate.

**Tabella 1: PARAMETRI GEOTECNICI**

<b>Trave, Plinto o Piastra</b>	: Numero elemento
<b>Infiss</b>	: Infissione base fondazione dal piano campagna
<b>Tipo Tabella</b>	: Tipo di tabella (M1/M2) per i coeff. parziali per i parametri del terreno
<b>Gamma</b>	: Peso specifico totale di calcolo
<b>Fi</b>	: Angolo di attrito interno di calcolo in gradi
<b>Coes</b>	: Coesione drenata di calcolo
<b>Mod.El.</b>	: Modulo elastico di calcolo
<b>Poiss</b>	: Coefficiente di Poisson
<b>P base</b>	: Pressione litostatica base di fondazione in condizioni drenate
<b>Indice Rigid.</b>	: Indice di rigidezza
<b>IndRig Crit.</b>	: Indice di rigidezza critico
<b>Cu</b>	: Coesione non drenata
<b>Pbase</b>	: Pressione litostatica base di fondazione in cond. non drenate

**Tabella 2: COEFFICIENTI DI PORTANZA**

<b>Trave, Plinto o Piastra</b>	: Numero elemento
<b>Nc</b>	: Coefficiente di portanza di Brinch-Hansen
<b>Nq</b>	: Coefficiente di portanza di Brinch-Hansen
<b>Ng</b>	: Coefficiente di portanza di Brinch-Hansen
<b>Gc</b>	: Coefficiente di inclinazione del terreno
<b>Gq</b>	: Coefficiente di inclinazione del terreno
<b>bc</b>	: Coefficiente di inclinazione del piano di posa
<b>bq</b>	: Coefficiente di inclinazione del piano di posa
<b>Igk</b>	: Coefficiente per effetti cinematici
<b>Comb.Nro</b>	: Numero della combinazione di carico
<b>Icv</b>	: Coefficiente di inclinazione del carico
<b>Iqv</b>	: Coefficiente di inclinazione del carico
<b>Igv</b>	: Coefficiente di inclinazione del carico
<b>Dc</b>	: Coefficiente di affondamento del piano di posa
<b>Dq</b>	: Coefficiente di affondamento del piano di posa
<b>Dg</b>	: Coefficiente di affondamento del piano di posa
<b>Sc</b>	: Coefficiente di forma
<b>Sq</b>	: Coefficiente di forma
<b>Sg</b>	: Coefficiente di forma
<b>Psic</b>	: Coefficiente di punzonamento
<b>Psiq</b>	: Coefficiente di punzonamento
<b>Psig</b>	: Coefficiente di punzonamento

**Tabella 3: PORTANZA (per Risultanti)**

<b>Trave, Plinto o Piastra</b>	: Numero elemento in numerazione calcolo C.D.Gs. Win
<b>Asta3d, Filo</b>	: Identificativo di input
<b>Comb.</b>	: Numero della combinazione a cui si riferiscono i dati che seguono

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<b>Bx'</b>	: Base di fondazione ridotta lungo x per eccentricità
<b>By'</b>	: Base di fondazione ridotta lungo y per eccentricità
<b>GamEf</b>	: Peso specifico efficace di calcolo
<b>QlimV</b>	: Carico limite in condiz. drenate o non drenate comprensivo dei Coeff. Parziali R1/R2/R3
<b>N</b>	: Carico verticale agente
<b>Coeff.Sicur.</b>	: Minimo tra i rapporti ( $Q_{limV}/N$ ) tra la condiz. drenata e quella non drenata per la combinazione in esame

Tra tutte le combinazioni vengono riportati i seguenti dati:

<b>Minimo CoeSic</b>	: Minimo coefficiente di sicurezza
<b>N/Ar</b>	: Tensione media agente sull'impronta ridotta
<b>Qlim/Ar</b>	: Tensione limite sull'impronta ridotta
<b>Status Verifica</b>	: Si possono avere i seguenti messaggi:

**OK** = Verifica soddisfatta

**NONVERIF** = Non verifica nei seguenti casi:

- Coefficiente di sicurezza minore di 1
- Se  $Bx=0$  o  $By=0$  per eccentricità eccessiva dei carichi
- Se  $Q_{limV}=0$  per inclinazione dei carichi eccessiva a causa di forze orizzontali elevate

**SCARICA** = Verifica soddisfatta: Impronta non sollecitata o in trazione

**DECOMPR** = Verifica soddisfatta:

- lo sforzo agente sull'elemento è di trazione, ma la risultante dei carichi agenti sul terreno è di debole compressione per effetto del peso proprio dell'elemento stesso.

**Tabella 3: PORTANZA (per Tensioni)**

<b>Trave, Plinto o Piastra</b>	: Numero elemento in numerazione calcolo C.D.Gs. Win
<b>Asta3d, Filo</b>	: Identificativo di input
<b>Comb.</b>	: Numero della combinazione a cui si riferiscono i dati che seguono
<b>Bx'</b>	: Base di fondazione ridotta lungo x per eccentricità
<b>By'</b>	: Base di fondazione ridotta lungo y per eccentricità
<b>GamEf</b>	: Peso specifico efficace di calcolo
<b>SgmLimV</b>	: Tensione limite in condiz. drenate o non drenate
<b>SgmTerr</b>	: Tensione elastica massima sul terreno
<b>Coeff.Sicur.</b>	: Minimo tra i rapporti ( $SgmLimV/SgmTerr$ ) tra la condiz. drenata e quella non drenata per la combinazione in esame

Tra tutte le combinazioni vengono riportati i seguenti dati:

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**Minimo CoeSic** : *Minimo coefficiente di sicurezza*  
**N/Ar** : *Tensione media agente sull'impronta ridotta*  
**Qlim/Ar** : *Tensione limite media sull'impronta ridotta (SgmLimV minima)*  
**Status Verifica** : *Si possono avere i seguenti messaggi:*

**OK** = *Verifica soddisfatta*

**NOVERIF** = *Non verifica nei seguenti casi:*

- *Coefficiente di sicurezza minore di 1*
- *Se  $B_x=0$  o  $B_y=0$  per eccentricita' eccessiva dei carichi*
- *Se  $SgmLimV=0$  per inclinazione dei carichi eccessiva a causa di forze orizzontali elevate*

**SCARICA** = *Impronta non sollecitata o in trazione*

**DECOMPR** = *Verifica soddisfatta:*

- *lo sforzo agente sull'elemento è di trazione, ma la risultante dei carichi agenti sul terreno è di debole compressione per effetto del peso proprio dell'elemento stesso.*

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DATI GENERALI			
COEFFICIENTI PARZIALI GEOTECNICA			
		TABELLA M1	TABELLA M2
Tangente Resist. Taglio		1.00	
Peso Specifico		1.00	
Coesione Efficace (c'k)		1.00	
Resist. a taglio NON drenata (cuk)		1.00	
Tipo Approccio		Combinazione Unica: (A1+M1+R3)	
Tipo di fondazione		Fondazione Superficiale / a pozzo	
		COEFFICIENTE R1	COEFFICIENTE R2
Capacita' Portante			2.300
Scorrimento			1.100

COORDINATE NODI3D PLATEA															
IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO			
Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)
61	1.25	-0.35	0.00	62	1.25	1.25	0.00	63	-0.35	1.25	0.00	64	-0.35	-0.35	0.00
69	-0.55	-0.55	0.00	70	1.45	-0.55	0.00	71	1.45	1.45	0.00	72	-0.55	1.45	0.00
73	-0.55	1.25	0.00	74	-0.35	1.45	0.00	75	-0.55	-0.35	0.00	76	-0.35	-0.55	0.00
77	1.25	-0.55	0.00	78	1.45	-0.35	0.00	79	1.45	1.25	0.00	80	1.25	1.45	0.00
99	-0.35	0.85	0.00	100	-0.35	0.45	0.00	101	-0.35	0.05	0.00	117	0.05	-0.35	0.00
118	0.45	-0.35	0.00	119	0.85	-0.35	0.00	135	1.25	0.05	0.00	136	1.25	0.45	0.00
137	1.25	0.85	0.00	150	0.85	1.25	0.00	151	0.45	1.25	0.00	152	0.05	1.25	0.00
153	0.05	-0.55	0.00	154	0.45	-0.55	0.00	155	0.85	-0.55	0.00	156	1.45	0.05	0.00
157	1.45	0.45	0.00	158	1.45	0.85	0.00	159	0.85	1.45	0.00	160	0.45	1.45	0.00
161	0.05	1.45	0.00	162	-0.55	0.85	0.00	163	-0.55	0.45	0.00	164	-0.55	0.05	0.00
165	0.85	0.85	0.00	166	0.45	0.85	0.00	167	0.05	0.85	0.00	168	0.85	0.45	0.00
169	0.45	0.45	0.00	170	0.05	0.45	0.00	171	0.85	0.05	0.00	172	0.45	0.05	0.00
173	0.05	0.05	0.00												

GEOMETRIA PLATEA																																																					
Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Str N.ro	Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Str N.ro	Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Str N.ro	Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Str N.ro																														
5	75	69	76	64	2	6	64	76	77	61	2	7	77	70	78	61	2	8	61	78	79	62	2	9	79	71	80	62	2	10	62	80	74	63	2	11	74	72	73	63	2	12	63	73	75	64	2	13	62	63	64	61	2

STRATIGRAFIA PLATEA																
Str. N.ro	Q.t.v. (m)	Q.t.d. (m)	Q.falda (m)	Incl Grd	Kw N/cm	Num Str	Sp.str. (m)	Peso Sp N/mc	Fi' (Grd)	C' N/mm	Cu N/mm	Mod.El. N/mm	Poisson	Gr.Sovr (%)	Mod.Ed. N/mm	
2	-1.35	-1.35	0.40	0	150	1		18140	31.00	0.000	0.000	17.500	0.30	1	0.000	

COMBINAZIONI CARICHI - S.L.U. - A1																
DESCRIZIONI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Peso Strutturale	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PERM. PORTATI	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
VENTO	0.90	1.50	0.90	1.50	0.90	0.90	1.50	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Corr. Tors. dir. 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	-1.00	1.00	-1.00	1.00	-1.00	1.00	
Corr. Tors. dir. 90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30	-0.30	-0.30	0.30	-0.30	0.30	
Carico termico	0.00	0.00	0.90	0.90	1.50	-0.90	-0.90	-1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sisma direz. grd 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Sisma direz. grd 90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.30	0.30	-0.30	-0.30	-0.30	

COMBINAZIONI CARICHI - S.L.U. - A1																
DESCRIZIONI	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Peso Strutturale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PERM. PORTATI	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
VENTO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Corr. Tors. dir. 0	-1.00	-1.00	1.00	-1.00	1.00	-1.00	1.00	-1.00	1.00	0.30	-0.30	0.30	-0.30	0.30	-0.30	
Corr. Tors. dir. 90	0.30	0.30	0.30	-0.30	-0.30	-0.30	-0.30	0.30	0.30	1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
Carico termico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sisma direz. grd 0	1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.30	0.30	0.30	0.30	0.30	0.30	
Sisma direz. grd 90	-0.30	0.30	0.30	0.30	0.30	-0.30	-0.30	-0.30	-0.30	1.00	1.00	1.00	1.00	-1.00	-1.00	

COMBINAZIONI CARICHI - S.L.U. - A1											
DESCRIZIONI	31	32	33	34	35	36	37	38	39	40	
Peso Strutturale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PERM. PORTATI	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
VENTO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Corr. Tors. dir. 0	0.30	-0.30	-0.30	0.30	0.30	-0.30	0.30	-0.30	0.30	-0.30	
Corr. Tors. dir. 90	1.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	-1.00	1.00	1.00	
Carico termico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

 <b>SNAM RETE GAS</b>	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 21 di 81</b>	<b>Rev.</b> <b>0</b>

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**COMBINAZIONI CARICHI - S.L.U. - A1**

DESCRIZIONI	31	32	33	34	35	36	37	38	39	40
Sisma direz. grd 0	0.30	0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
Sisma direz. grd 90	-1.00	-1.00	1.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	-1.00

**COMBINAZIONI RARE - S.L.E.**

DESCRIZIONI	1	2	3	4	5	6	7	8
Peso Strutturale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PERM. PORTATI	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
VENTO	0.60	1.00	0.60	1.00	0.60	0.60	1.00	0.60
Corr. Tors. dir. 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Corr. Tors. dir. 90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carico termico	0.00	0.00	0.60	0.60	1.00	-0.60	-0.60	-1.00
Sisma direz. grd 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sisma direz. grd 90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**COMBINAZIONI FREQUENTI - S.L.E.**

DESCRIZIONI	1	2	3	4
Peso Strutturale	1.00	1.00	1.00	1.00
PERM. PORTATI	1.00	1.00	1.00	1.00
VENTO	0.00	0.20	0.00	0.00
Corr. Tors. dir. 0	0.00	0.00	0.00	0.00
Corr. Tors. dir. 90	0.00	0.00	0.00	0.00
Carico termico	0.00	0.00	0.50	-0.50
Sisma direz. grd 0	0.00	0.00	0.00	0.00
Sisma direz. grd 90	0.00	0.00	0.00	0.00

**COMBINAZIONI PERMANENTI - S.L.E.**

DESCRIZIONI	1
Peso Strutturale	1.00
PERM. PORTATI	1.00
VENTO	0.00
Corr. Tors. dir. 0	0.00
Corr. Tors. dir. 90	0.00
Carico termico	0.00
Sisma direz. grd 0	0.00
Sisma direz. grd 90	0.00

**RISULTANTI SOLLECITAZIONI NODI PLATEE**

Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)
61	A1 / 1	-12.0	62	A1 / 1	-11.8	63	A1 / 1	-3.4	64	A1 / 1	-3.6
	A1 / 2	-14.8		A1 / 2	-14.6		A1 / 2	-0.7		A1 / 2	-0.8
	A1 / 3	-12.0		A1 / 3	-11.8		A1 / 3	-3.4		A1 / 3	-3.6
	A1 / 4	-14.8		A1 / 4	-14.6		A1 / 4	-0.7		A1 / 4	-0.8
	A1 / 5	-12.0		A1 / 5	-11.8		A1 / 5	-3.4		A1 / 5	-3.6
	A1 / 6	-12.0		A1 / 6	-11.8		A1 / 6	-3.4		A1 / 6	-3.6
	A1 / 7	-14.8		A1 / 7	-14.6		A1 / 7	-0.7		A1 / 7	-0.8
	A1 / 8	-12.0		A1 / 8	-11.8		A1 / 8	-3.4		A1 / 8	-3.6
	X+ A1 / 13	-5.6		X+ A1 / 12	-5.5		X+ A1 / 9	-5.5		X+ A1 / 14	-5.6
	X- A1 / 22	-5.6		X- A1 / 19	-5.5		X- A1 / 18	-5.5		X- A1 / 21	-5.6
	Y+ A1 / 33	-5.6		Y+ A1 / 28	-5.5		Y+ A1 / 25	-5.5		Y+ A1 / 35	-5.6
	Y- A1 / 39	-5.6		Y- A1 / 30	-5.5		Y- A1 / 31	-5.5		Y- A1 / 37	-5.6
	69	A1 / 1		-0.3	70		A1 / 1	-1.5		71	A1 / 1
A1 / 2		0.1	A1 / 2	-1.8		A1 / 2	-1.8	A1 / 2	0.1		
A1 / 3		-0.3	A1 / 3	-1.5		A1 / 3	-1.4	A1 / 3	-0.3		
A1 / 4		0.1	A1 / 4	-1.8		A1 / 4	-1.8	A1 / 4	0.1		
A1 / 5		-0.3	A1 / 5	-1.5		A1 / 5	-1.4	A1 / 5	-0.3		
A1 / 6		-0.3	A1 / 6	-1.5		A1 / 6	-1.4	A1 / 6	-0.3		
A1 / 7		0.1	A1 / 7	-1.8		A1 / 7	-1.8	A1 / 7	0.1		
A1 / 8		-0.3	A1 / 8	-1.5		A1 / 8	-1.4	A1 / 8	-0.3		
X+ A1 / 14		-0.6	X+ A1 / 14	-0.6		X+ A1 / 12	-0.6	X+ A1 / 9	-0.6		
X- A1 / 21		-0.6	X- A1 / 21	-0.6		X- A1 / 19	-0.6	X- A1 / 18	-0.6		
Y+ A1 / 35	-0.6	Y+ A1 / 35	-0.6	Y+ A1 / 28	-0.6	Y+ A1 / 25	-0.6				
Y- A1 / 37	-0.6	Y- A1 / 37	-0.6	Y- A1 / 30	-0.6	Y- A1 / 31	-0.6				
73	A1 / 1	-0.8	74	A1 / 1	-1.1	75	A1 / 1	-0.9	76	A1 / 1	-1.2
	A1 / 2	0.4		A1 / 2	-0.2		A1 / 2	0.3		A1 / 2	-0.3
	A1 / 3	-0.8		A1 / 3	-1.1		A1 / 3	-0.9		A1 / 3	-1.2
	A1 / 4	0.4		A1 / 4	-0.2		A1 / 4	0.3		A1 / 4	-0.3
	A1 / 5	-0.8		A1 / 5	-1.1		A1 / 5	-0.9		A1 / 5	-1.2
	A1 / 6	-0.8		A1 / 6	-1.1		A1 / 6	-0.9		A1 / 6	-1.2
	A1 / 7	0.4		A1 / 7	-0.2		A1 / 7	0.3		A1 / 7	-0.3
	A1 / 8	-0.8		A1 / 8	-1.1		A1 / 8	-0.9		A1 / 8	-1.2
	X+ A1 / 9	-1.8		X+ A1 / 12	-1.8		X+ A1 / 14	-1.9		X+ A1 / 14	-1.9
	X- A1 / 18	-1.8		X- A1 / 19	-1.8		X- A1 / 21	-1.9		X- A1 / 21	-1.9
Y+ A1 / 25	-1.8	Y+ A1 / 28	-1.8	Y+ A1 / 35	-1.9	Y+ A1 / 35	-1.9				
Y- A1 / 31	-1.8	Y- A1 / 30	-1.8	Y- A1 / 37	-1.9	Y- A1 / 37	-1.9				
77	A1 / 1	-4.0	78	A1 / 1	-4.4	79	A1 / 1	-4.3	80	A1 / 1	-3.9

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 22 di 81</b>	<b>Rev.</b> <b>0</b>

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RISULTANTI SOLLECITAZIONI NODI PLATEE											
Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)
	A1 / 2	-5.0		A1 / 2	-5.5		A1 / 2	-5.5		A1 / 2	-4.9
	A1 / 3	-4.0		A1 / 3	-4.4		A1 / 3	-4.3		A1 / 3	-3.9
	A1 / 4	-5.0		A1 / 4	-5.5		A1 / 4	-5.5		A1 / 4	-4.9
	A1 / 5	-4.0		A1 / 5	-4.4		A1 / 5	-4.3		A1 / 5	-3.9
	A1 / 6	-4.0		A1 / 6	-4.4		A1 / 6	-4.3		A1 / 6	-3.9
	A1 / 7	-5.0		A1 / 7	-5.5		A1 / 7	-5.5		A1 / 7	-4.9
	A1 / 8	-4.0		A1 / 8	-4.4		A1 / 8	-4.3		A1 / 8	-3.9
X+	A1 / 14	-1.9	X+	A1 / 15	-1.9	X+	A1 / 12	-1.8	X+	A1 / 9	-1.8
X-	A1 / 21	-1.9	X-	A1 / 24	-1.9	X-	A1 / 19	-1.8	X-	A1 / 18	-1.8
Y+	A1 / 35	-1.9	Y+	A1 / 34	-1.9	Y+	A1 / 28	-1.8	Y+	A1 / 25	-1.8
Y-	A1 / 37	-1.9	Y-	A1 / 40	-1.9	Y-	A1 / 30	-1.8	Y-	A1 / 31	-1.8
99	A1 / 1	-4.6	100	A1 / 1	-4.7	101	A1 / 1	-4.8	117	A1 / 1	-7.6
	A1 / 2	-0.9		A1 / 2	-1.0		A1 / 2	-1.1		A1 / 2	-5.7
	A1 / 3	-4.6		A1 / 3	-4.7		A1 / 3	-4.8		A1 / 3	-7.6
	A1 / 4	-0.9		A1 / 4	-1.0		A1 / 4	-1.1		A1 / 4	-5.7
	A1 / 5	-4.6		A1 / 5	-4.7		A1 / 5	-4.8		A1 / 5	-7.6
	A1 / 6	-4.6		A1 / 6	-4.7		A1 / 6	-4.8		A1 / 6	-7.6
	A1 / 7	-0.9		A1 / 7	-1.0		A1 / 7	-1.1		A1 / 7	-5.7
	A1 / 8	-4.6		A1 / 8	-4.7		A1 / 8	-4.8		A1 / 8	-7.6
X+	A1 / 15	-7.3	X+	A1 / 15	-7.3	X+	A1 / 14	-7.4	X+	A1 / 15	-7.4
X-	A1 / 24	-7.3	X-	A1 / 24	-7.3	X-	A1 / 21	-7.4	X-	A1 / 24	-7.4
Y+	A1 / 34	-7.3	Y+	A1 / 34	-7.3	Y+	A1 / 35	-7.4	Y+	A1 / 34	-7.4
Y-	A1 / 40	-7.3	Y-	A1 / 40	-7.3	Y-	A1 / 37	-7.4	Y-	A1 / 40	-7.4
118	A1 / 1	-10.4	119	A1 / 1	-13.2	135	A1 / 1	-15.9	136	A1 / 1	-15.8
	A1 / 2	-10.4		A1 / 2	-15.0		A1 / 2	-19.6		A1 / 2	-19.5
	A1 / 3	-10.4		A1 / 3	-13.2		A1 / 3	-15.9		A1 / 3	-15.8
	A1 / 4	-10.4		A1 / 4	-15.0		A1 / 4	-19.6		A1 / 4	-19.5
	A1 / 5	-10.4		A1 / 5	-13.2		A1 / 5	-15.9		A1 / 5	-15.8
	A1 / 6	-10.4		A1 / 6	-13.2		A1 / 6	-15.9		A1 / 6	-15.8
	A1 / 7	-10.4		A1 / 7	-15.0		A1 / 7	-19.6		A1 / 7	-19.5
	A1 / 8	-10.4		A1 / 8	-13.2		A1 / 8	-15.9		A1 / 8	-15.8
X+	A1 / 13	-7.4	X+	A1 / 14	-7.4	X+	A1 / 9	-7.4	X+	A1 / 9	-7.4
X-	A1 / 22	-7.4	X-	A1 / 21	-7.4	X-	A1 / 18	-7.4	X-	A1 / 18	-7.4
Y+	A1 / 33	-7.4	Y+	A1 / 35	-7.4	Y+	A1 / 25	-7.4	Y+	A1 / 25	-7.4
Y-	A1 / 39	-7.4	Y-	A1 / 37	-7.4	Y-	A1 / 31	-7.4	Y-	A1 / 31	-7.4
137	A1 / 1	-15.8	150	A1 / 1	-12.9	151	A1 / 1	-10.1	152	A1 / 1	-7.4
	A1 / 2	-19.5		A1 / 2	-14.8		A1 / 2	-10.1		A1 / 2	-5.5
	A1 / 3	-15.8		A1 / 3	-12.9		A1 / 3	-10.1		A1 / 3	-7.4
	A1 / 4	-19.5		A1 / 4	-14.8		A1 / 4	-10.1		A1 / 4	-5.5
	A1 / 5	-15.8		A1 / 5	-12.9		A1 / 5	-10.1		A1 / 5	-7.4
	A1 / 6	-15.8		A1 / 6	-12.9		A1 / 6	-10.1		A1 / 6	-7.4
	A1 / 7	-19.5		A1 / 7	-14.8		A1 / 7	-10.1		A1 / 7	-5.5
	A1 / 8	-15.8		A1 / 8	-12.9		A1 / 8	-10.1		A1 / 8	-7.4
X+	A1 / 12	-7.3	X+	A1 / 9	-7.3	X+	A1 / 12	-7.3	X+	A1 / 12	-7.3
X-	A1 / 19	-7.3	X-	A1 / 18	-7.3	X-	A1 / 19	-7.3	X-	A1 / 19	-7.3
Y+	A1 / 28	-7.3	Y+	A1 / 25	-7.3	Y+	A1 / 28	-7.3	Y+	A1 / 28	-7.3
Y-	A1 / 30	-7.3	Y-	A1 / 31	-7.3	Y-	A1 / 30	-7.3	Y-	A1 / 30	-7.3
153	A1 / 1	-2.5	154	A1 / 1	-3.5	155	A1 / 1	-4.4	156	A1 / 1	-5.8
	A1 / 2	-1.9		A1 / 2	-3.5		A1 / 2	-5.0		A1 / 2	-7.3
	A1 / 3	-2.5		A1 / 3	-3.5		A1 / 3	-4.4		A1 / 3	-5.8
	A1 / 4	-1.9		A1 / 4	-3.5		A1 / 4	-5.0		A1 / 4	-7.3
	A1 / 5	-2.5		A1 / 5	-3.5		A1 / 5	-4.4		A1 / 5	-5.8
	A1 / 6	-2.5		A1 / 6	-3.5		A1 / 6	-4.4		A1 / 6	-5.8
	A1 / 7	-1.9		A1 / 7	-3.5		A1 / 7	-5.0		A1 / 7	-7.3
	A1 / 8	-2.5		A1 / 8	-3.5		A1 / 8	-4.4		A1 / 8	-5.8
X+	A1 / 15	-2.5	X+	A1 / 14	-2.5	X+	A1 / 14	-2.5	X+	A1 / 9	-2.5
X-	A1 / 24	-2.5	X-	A1 / 21	-2.5	X-	A1 / 21	-2.5	X-	A1 / 18	-2.5
Y+	A1 / 34	-2.5	Y+	A1 / 35	-2.5	Y+	A1 / 35	-2.5	Y+	A1 / 25	-2.5
Y-	A1 / 40	-2.5	Y-	A1 / 37	-2.5	Y-	A1 / 37	-2.5	Y-	A1 / 31	-2.5
157	A1 / 1	-5.7	158	A1 / 1	-5.7	159	A1 / 1	-4.3	160	A1 / 1	-3.4
	A1 / 2	-7.3		A1 / 2	-7.3		A1 / 2	-4.9		A1 / 2	-3.4
	A1 / 3	-5.7		A1 / 3	-5.7		A1 / 3	-4.3		A1 / 3	-3.4
	A1 / 4	-7.3		A1 / 4	-7.3		A1 / 4	-4.9		A1 / 4	-3.4
	A1 / 5	-5.7		A1 / 5	-5.7		A1 / 5	-4.3		A1 / 5	-3.4
	A1 / 6	-5.7		A1 / 6	-5.7		A1 / 6	-4.3		A1 / 6	-3.4
	A1 / 7	-7.3		A1 / 7	-7.3		A1 / 7	-4.9		A1 / 7	-3.4
	A1 / 8	-5.7		A1 / 8	-5.7		A1 / 8	-4.3		A1 / 8	-3.4
X+	A1 / 9	-2.5	X+	A1 / 12	-2.4	X+	A1 / 9	-2.4	X+	A1 / 12	-2.4
X-	A1 / 18	-2.5	X-	A1 / 19	-2.4	X-	A1 / 18	-2.4	X-	A1 / 19	-2.4
Y+	A1 / 25	-2.5	Y+	A1 / 28	-2.4	Y+	A1 / 25	-2.4	Y+	A1 / 28	-2.4
Y-	A1 / 31	-2.5	Y-	A1 / 30	-2.4	Y-	A1 / 31	-2.4	Y-	A1 / 30	-2.4

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 23 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

RISULTANTI SOLLECITAZIONI NODI PLATEE											
Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)	Nod3d N.ro	Combinazione N.ro	Fz (kN)
161	A1 / 1	-2.4	162	A1 / 1	-1.1	163	A1 / 1	-1.1	164	A1 / 1	-1.1
	A1 / 2	-1.8		A1 / 2	0.4		A1 / 2	0.4		A1 / 2	0.4
	A1 / 3	-2.4		A1 / 3	-1.1		A1 / 3	-1.1		A1 / 3	-1.1
	A1 / 4	-1.8		A1 / 4	0.4		A1 / 4	0.4		A1 / 4	0.4
	A1 / 5	-2.4		A1 / 5	-1.1		A1 / 5	-1.1		A1 / 5	-1.1
	A1 / 6	-2.4		A1 / 6	-1.1		A1 / 6	-1.1		A1 / 6	-1.1
	A1 / 7	-1.8		A1 / 7	0.4		A1 / 7	0.4		A1 / 7	0.4
	A1 / 8	-2.4		A1 / 8	-1.1		A1 / 8	-1.1		A1 / 8	-1.1
	X+ A1 / 12	-2.4		X+ A1 / 15	-2.4		X+ A1 / 15	-2.5		X+ A1 / 14	-2.5
	X- A1 / 19	-2.4		X- A1 / 24	-2.4		X- A1 / 24	-2.5		X- A1 / 21	-2.5
	Y+ A1 / 28	-2.4		Y+ A1 / 34	-2.4		Y+ A1 / 34	-2.5		Y+ A1 / 35	-2.5
	Y- A1 / 30	-2.4		Y- A1 / 40	-2.4		Y- A1 / 40	-2.5		Y- A1 / 37	-2.5
	165	A1 / 1		-17.3	166		A1 / 1	-13.5		167	A1 / 1
A1 / 2		-19.7	A1 / 2	-13.5		A1 / 2	-7.4	A1 / 2	-19.8		
A1 / 3		-17.3	A1 / 3	-13.5		A1 / 3	-9.8	A1 / 3	-17.3		
A1 / 4		-19.7	A1 / 4	-13.5		A1 / 4	-7.4	A1 / 4	-19.8		
A1 / 5		-17.3	A1 / 5	-13.5		A1 / 5	-9.8	A1 / 5	-17.3		
A1 / 6		-17.3	A1 / 6	-13.5		A1 / 6	-9.8	A1 / 6	-17.3		
A1 / 7		-19.7	A1 / 7	-13.5		A1 / 7	-7.4	A1 / 7	-19.8		
A1 / 8		-17.3	A1 / 8	-13.5		A1 / 8	-9.8	A1 / 8	-17.3		
X+ A1 / 10		-9.7	X+ A1 / 9	-9.7		X+ A1 / 9	-9.7	X+ A1 / 9	-9.7		
X- A1 / 17		-9.7	X- A1 / 18	-9.7		X- A1 / 18	-9.7	X- A1 / 18	-9.7		
Y+ A1 / 27		-9.7	Y+ A1 / 25	-9.7		Y+ A1 / 25	-9.7	Y+ A1 / 25	-9.7		
Y- A1 / 29		-9.7	Y- A1 / 31	-9.7		Y- A1 / 31	-9.7	Y- A1 / 31	-9.7		
169		A1 / 1	-13.6	170		A1 / 1	-9.9	171	A1 / 1		-17.4
	A1 / 2	-13.6	A1 / 2		-7.5	A1 / 2	-19.9		A1 / 2	-13.7	
	A1 / 3	-13.6	A1 / 3		-9.9	A1 / 3	-17.4		A1 / 3	-13.7	
	A1 / 4	-13.6	A1 / 4		-7.5	A1 / 4	-19.9		A1 / 4	-13.7	
	A1 / 5	-13.6	A1 / 5		-9.9	A1 / 5	-17.4		A1 / 5	-13.7	
	A1 / 6	-13.6	A1 / 6		-9.9	A1 / 6	-17.4		A1 / 6	-13.7	
	A1 / 7	-13.6	A1 / 7		-7.5	A1 / 7	-19.9		A1 / 7	-13.7	
	A1 / 8	-13.6	A1 / 8		-9.9	A1 / 8	-17.4		A1 / 8	-13.7	
	X+ A1 / 9	-9.7	X+ A1 / 15		-9.7	X+ A1 / 15	-9.8		X+ A1 / 15	-9.8	
	X- A1 / 18	-9.7	X- A1 / 24		-9.7	X- A1 / 24	-9.8		X- A1 / 24	-9.8	
	Y+ A1 / 25	-9.7	Y+ A1 / 34		-9.7	Y+ A1 / 34	-9.8		Y+ A1 / 34	-9.8	
	Y- A1 / 31	-9.7	Y- A1 / 40		-9.7	Y- A1 / 40	-9.8		Y- A1 / 40	-9.8	
	173	A1 / 1	-10.0								
A1 / 2		-7.5									
A1 / 3		-10.0									
A1 / 4		-7.5									
A1 / 5		-10.0									
A1 / 6		-10.0									
A1 / 7		-7.5									
A1 / 8		-10.0									
X+ A1 / 15		-9.8									
X- A1 / 24		-9.8									
Y+ A1 / 34		-9.8									
Y- A1 / 40		-9.8									

PARAMETRI GEOTECNICI PIASTRE WINKLER													
IDENTIFICATIVO				CONDIZIONE DRENATA								NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma N/mc	Fi' Grd	C' N/mmq	Mod.El N/mmq	Poiss on	P base N/mmq	Indice Rigid.	IndRig Crit.	Cu N/mmq	P base N/mmq	
1	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	339.80	77.03			
2	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	339.80	77.03			
3	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	339.80	77.03			
4	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	339.80	77.03			
5	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	348.40	77.03			
6	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	348.40	77.03			
7	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	348.40	77.03			
8	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	348.40	77.03			



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 24 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

PARAMETRI GEOTECNICI PIASTRE WINKLER												
IDENTIFICATIVO				CONDIZIONE DRENATA							NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma N/mc	Fi' Grd	C' N/mmq	Mod.El N/mmq	Poiss on	P base N/mmq	Indice Rigid.	IndRig Crit.	Cu N/mmq	P base N/mmq
9	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
10	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
11	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
12	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
13	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
14	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
15	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
16	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	345.20	77.03		
17	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
18	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
19	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
20	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
21	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
22	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
23	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
24	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
25	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
26	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
27	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
28	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	337.87	77.03		
29	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
30	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
31	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
32	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
33	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
34	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
35	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
36	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
37	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
38	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 25 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

PARAMETRI GEOTECNICI PIASTRE WINKLER												
IDENTIFICATIVO				CONDIZIONE DRENATA							NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma N/mc	Fi' Grd	C' N/mmq	Mod.El N/mmq	Poiss on	P base N/mmq	Indice Rigid.	IndRig Crit.	Cu N/mmq	P base N/mmq
39	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
40	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	344.05	77.03		
41	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
42	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
43	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
44	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
45	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
46	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
47	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
48	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		
49	1.75	M1	18140	31.00	0.000	17.500	0.30	0.032	335.66	77.03		

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE																						
Piast Nro	Brinch Hansen			IcTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Igk Sism	CoeffIncl.Car.			Affondamento			Forma			Punzonamento			
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psiq	Psig	
1	32.67	20.63	25.99	1.00	1.00	1.00	1.00	A1/1	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/2	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/3	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/4	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/5	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/6	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/7	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/8	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								X+	A1/13	1.00	0.94	0.94	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								X-	A1/22	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								Y+	A1/33	1.00	0.94	0.94	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								Y-	A1/39	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								2	32.67	20.63	25.99	1.00	1.00	1.00	1.00	A1/1	1.00	0.94	0.95	0.91	1.42	1.40
A1/2	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/3	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/4	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/5	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/6	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/7	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/8	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
X+	A1/12	1.00	0.89	0.90	0.83	1.42	1.40									1.00	1.63	1.60	0.60	1.00	1.00	1.00
X-	A1/19	1.00	0.94	0.94	0.91	1.42	1.40									1.00	1.63	1.60	0.60	1.00	1.00	1.00
Y+	A1/28	1.00	0.89	0.90	0.83	1.42	1.40									1.00	1.63	1.60	0.60	1.00	1.00	1.00
Y-	A1/30	1.00	0.94	0.94	0.91	1.42	1.40									1.00	1.63	1.60	0.60	1.00	1.00	1.00
3	32.67	20.63	25.99	1.00	1.00	1.00	1.00									A1/1	1.00	0.94	0.95	0.91	1.42	1.40
								A1/2	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/3	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/4	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/5	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/6	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/7	1.00	0.91	0.91	0.86	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								A1/8	1.00	0.94	0.95	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
								X+	A1/9	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								X-	A1/18	1.00	0.94	0.94	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								Y+	A1/25	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								Y-	A1/31	1.00	0.94	0.94	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00
								4	32.67	20.63	25.99	1.00	1.00	1.00	1.00	A1/1	1.00	0.94	0.95	0.91	1.42	1.40
A1/2	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/3	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/4	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/5	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/6	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/7	1.00	0.91	0.91	0.86	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
A1/8	1.00	0.94	0.95	0.91	1.42	1.40	1.00									1.63	1.60	0.60	1.00	1.00	1.00	
X+	A1/14	1.00	0.94	0.94	0.91	1.42	1.40									1.00	1.63	1.60	0.60	1.00	1.00	1.00

 SNAM RETE GAS	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 26 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE																											
Piastr Nro	Brinch Hansen			clTe Gc=Gq	Incl.PianoPosa			Comb N.ro	lgk Sism	CoeffIncl.Car.			Affondamento			Punzonamento											
	Nc	Nq	Ng		Bc	Bq	Bg			lcV	lgV	lgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psiq	Psig						
5	32.67	20.63	25.99	1.00	1.00	1.00	1.00		X-	A1/21	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00				
									Y+	A1/35	1.00	0.94	0.94	0.91	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	1.00		
									Y-	A1/37	1.00	0.89	0.90	0.83	1.42	1.40	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	1.00		
	6	32.67	20.63	25.99	1.00	1.00	1.00	1.00		A1/1	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00				
										A1/2	1.00																
										A1/3	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	1.00		
		7	32.67	20.63	25.99	1.00	1.00	1.00	1.00		A1/4	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00			
											A1/5	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00		
											A1/6	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00		
			8	32.67	20.63	25.99	1.00	1.00	1.00	1.00		A1/7	1.00	0.91	0.91	0.86	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00		
												A1/8	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	
												A1/9	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	
9				32.67	20.63	25.99	1.00	1.00	1.00	1.00		X+	A1/14	1.00	0.94	0.94	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
												X-	A1/21	1.00	0.89	0.90	0.83	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00
												Y+	A1/35	1.00	0.94	0.94	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00
	10			32.67	20.63	25.99	1.00	1.00	1.00	1.00		Y-	A1/37	1.00	0.89	0.90	0.83	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
												A1/1	1.00	0.94	0.95	0.91	1.44	1.42	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	
												A1/2	1.00	0.91	0.91	0.86	1.44	1.42	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	
		11		32.67	20.63	25.99	1.00	1.00	1.00	1.00		A1/3	1.00	0.94	0.95	0.91	1.45	1.43	1.00	1.63	1.60	0.60	1.00	1.00	1.00		
												A1/4	1.00	0.91	0.91	0.86	1.44	1.42	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	
												A1/5	1.00	0.94	0.95	0.91	1.44	1.42	1.00	1.63	1.60	0.60	1.00	1.00	1.00	1.00	







	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 29 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE																																																																																																																																																				
Piastr Nro	Brinch Hansen			cl Te Gc=Gq	Incl.PianoPosa			Comb N.ro	lgk Sism	Coeff. Inci. Car.			Affondamento			Forma			Punzonamento																																																																																																																																	
	Nc	Nq	Ng		Bc	Bq	Bg			lcV	lqV	lgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig																																																																																																																															
25	32.67	20.63	25.99	1.00	1.00	1.00	1.00														A1/2	1.00	0.91	0.91	0.86	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																																																																		
																					A1/31	1.00	0.94	0.94	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																																																																		
																					26	32.67	20.63	25.99	1.00	1.00	1.00	1.00															A1/1	1.00	0.94	0.95	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																																												
																																											A1/30	1.00	0.94	0.94	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																																												
																																											27	32.67	20.63	25.99	1.00	1.00	1.00	1.00																A1/1	1.00	0.94	0.95	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																					
																																																																		A1/30	1.00	0.94	0.94	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																																																					
																																																																		28	32.67	20.63	25.99	1.00	1.00	1.00	1.00																A1/1	1.00	0.94	0.95	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																														
																																																																																									A1/30	1.00	0.94	0.94	0.91	1.41	1.39	1.00	1.63	1.60	0.60	1.00	1.00	1.00																																														
																																																																																									29	32.67	20.63	25.99	1.00	1.00	1.00	1.00																A1/1	1.00	0.94	0.95	0.91	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00																							
																																																																																																																A1/40	1.00	0.89	0.90	0.83	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00																							
																																																																																																																30	32.67	20.63	25.99	1.00	1.00	1.00	1.00																A1/1	1.00	0.94	0.95	0.91	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00
																																																																																																																																							A1/17	1.00	0.91	0.91	0.86	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 31 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE																							
Piastr Nro	Brinch Hansen			IclTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Igk Sism	CoeffIncl.Car.			Affondamento			Forma			Punzonamento				
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig		
37	32.67	20.63	25.99	1.00	1.00	1.00	1.00			1.00	0.94	0.95	0.91	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
																							A1/1
																							A1/2
																							A1/3
																							A1/4
																							A1/5
																							A1/6
																							A1/7
																							A1/8
																							X+ A1/12
																							X- A1/19
																							Y+ A1/28
																							Y- A1/30
																							38
A1/1																							
A1/2																							
A1/3																							
A1/4																							
A1/5																							
A1/6																							
A1/7																							
A1/8																							
X+ A1/15																							
X- A1/24																							
Y+ A1/34																							
Y- A1/40																							
39	32.67	20.63	25.99	1.00	1.00	1.00	1.00			1.00	0.94	0.95	0.91	1.43	1.41	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
																							A1/1
																							A1/2
																							A1/3
																							A1/4
																							A1/5
																							A1/6
																							A1/7
																							A1/8
																							X+ A1/15
																							X- A1/24
																							Y+ A1/34
																							Y- A1/40
																							40
A1/1																							
A1/2																							
A1/3																							
A1/4																							
A1/5																							
A1/6																							
A1/7																							
A1/8																							
X+ A1/14																							
X- A1/21																							
Y+ A1/35																							
Y- A1/37																							
41	32.67	20.63	25.99	1.00	1.00	1.00	1.00			1.00	0.94	0.95	0.91	1.40	1.38	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
																							A1/1
																							A1/2
																							A1/3
																							A1/4
																							A1/5
																							A1/6
																							A1/7
																							A1/8
																							X+ A1/10
																							X- A1/17
																							Y+ A1/27
																							Y- A1/29
																							42
A1/1																							
A1/2																							
A1/3																							
A1/4																							
A1/5																							
A1/6																							
A1/7																							
A1/8																							
X+ A1/9																							
X- A1/18																							
Y+ A1/25																							
Y- A1/31																							
43	32.67	20.63	25.99	1.00	1.00	1.00	1.00			1.00	0.94	0.95	0.91	1.40	1.38	1.00	1.63	1.60	0.60	1.00	1.00	1.00	
																							A1/1
																							A1/2
																							A1/3
																							A1/4
																							A1/5
																							A1/6



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 33 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE																		
Piastr N.ro	Brinch Hansen			IclTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Ilgk Sism	CoeffIncl.Car.			Affondamento			Punzonamento		
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg

CARICO LIMITE PIASTRE WINKLER															
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI						
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	Gamef N/mc	QLimV (kN)	Gamef N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica	
1	61	A1 / 1	0.30	0.30	8140	54.8									
		A1 / 2	0.30	0.30	8140	52.8									
		A1 / 3	0.30	0.30	8140	54.8									
		A1 / 4	0.30	0.30	8140	52.8									
		A1 / 5	0.30	0.30	8140	54.8									
		A1 / 6	0.30	0.30	8140	54.8									
		A1 / 7	0.30	0.30	8140	52.8									
		A1 / 8	0.30	0.30	8140	54.8									
		X+	A1 / 13	0.30	0.30	8140	54.7								
		X-	A1 / 22	0.30	0.30	8140	52.0								
		Y+	A1 / 33	0.30	0.30	8140	54.7								
		Y-	A1 / 39	0.30	0.30	8140	52.0								
		2	62	A1 / 1	0.30	0.30	8140	54.8							
A1 / 2	0.30			0.30	8140	52.8									
A1 / 3	0.30			0.30	8140	54.8									
A1 / 4	0.30			0.30	8140	52.8									
A1 / 5	0.30			0.30	8140	54.8									
A1 / 6	0.30			0.30	8140	54.8									
A1 / 7	0.30			0.30	8140	52.8									
A1 / 8	0.30			0.30	8140	54.8									
X+	A1 / 12			0.30	0.30	8140	52.0								
X-	A1 / 19			0.30	0.30	8140	54.7								
Y+	A1 / 28			0.30	0.30	8140	52.0								
Y-	A1 / 30			0.30	0.30	8140	54.7								
3	63			A1 / 1	0.30	0.30	8140	54.8							
		A1 / 2	0.30	0.30	8140	52.8									
		A1 / 3	0.30	0.30	8140	54.8									
		A1 / 4	0.30	0.30	8140	52.8									
		A1 / 5	0.30	0.30	8140	54.8									
		A1 / 6	0.30	0.30	8140	54.8									
		A1 / 7	0.30	0.30	8140	52.8									
		A1 / 8	0.30	0.30	8140	54.8									
		X+	A1 / 9	0.30	0.30	8140	52.0								
		X-	A1 / 18	0.30	0.30	8140	54.7								
		Y+	A1 / 25	0.30	0.30	8140	52.0								
		Y-	A1 / 31	0.30	0.30	8140	54.7								
		4	64	A1 / 1	0.30	0.30	8140	54.8							
A1 / 2	0.30			0.30	8140	52.8									
A1 / 3	0.30			0.30	8140	54.8									
A1 / 4	0.30			0.30	8140	52.8									
A1 / 5	0.30			0.30	8140	54.8									
A1 / 6	0.30			0.30	8140	54.8									
A1 / 7	0.30			0.30	8140	52.8									
A1 / 8	0.30			0.30	8140	54.8									
X+	A1 / 14			0.30	0.30	8140	54.7								
X-	A1 / 21			0.30	0.30	8140	52.0								
Y+	A1 / 35			0.30	0.30	8140	54.7								
Y-	A1 / 37			0.30	0.30	8140	52.0								
5	69			A1 / 1	0.10	0.10	8140	6.2							
		A1 / 2	0.00	0.00		0.0									
		A1 / 3	0.10	0.10	8140	6.2									
		A1 / 4	0.00	0.00		0.0									
		A1 / 5	0.10	0.10	8140	6.2									
		A1 / 6	0.10	0.10	8140	6.2									
		A1 / 7	0.00	0.00		0.0									
		A1 / 8	0.10	0.10	8140	6.2									
		X+	A1 / 14	0.10	0.10	8140	6.2								
		X-	A1 / 21	0.10	0.10	8140	5.9								
		Y+	A1 / 35	0.10	0.10	8140	6.2								
		Y-	A1 / 37	0.10	0.10	8140	5.9								
		6	70	A1 / 1	0.10	0.10	8140	6.2							
A1 / 2	0.10			0.10	8140	5.9									
A1 / 3	0.10			0.10	8140	6.2									
A1 / 4	0.10			0.10	8140	5.9									
A1 / 5	0.10			0.10	8140	6.2									
A1 / 6	0.10			0.10	8140	6.2									

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	Fg. 34 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		A1 / 7	0.10	0.10	8140	5.9								
		A1 / 8	0.10	0.10	8140	6.2								
		X+ A1 / 14	0.10	0.10	8140	6.2								
		X- A1 / 21	0.10	0.10	8140	5.9								
		Y+ A1 / 35	0.10	0.10	8140	6.2								
		Y- A1 / 37	0.10	0.10	8140	5.9								
7	71	A1 / 1	0.10	0.10	8140	6.2								
		A1 / 2	0.10	0.10	8140	5.9								
		A1 / 3	0.10	0.10	8140	6.2								
		A1 / 4	0.10	0.10	8140	5.9								
		A1 / 5	0.10	0.10	8140	6.2								
		A1 / 6	0.10	0.10	8140	6.2								
		A1 / 7	0.10	0.10	8140	5.9								
		A1 / 8	0.10	0.10	8140	6.2								
		X+ A1 / 12	0.10	0.10	8140	5.9								
		X- A1 / 19	0.10	0.10	8140	6.2								
		Y+ A1 / 28	0.10	0.10	8140	5.9								
		Y- A1 / 30	0.10	0.10	8140	6.2								
8	72	A1 / 1	0.10	0.10	8140	6.2								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.10	0.10	8140	6.2								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.10	0.10	8140	6.2								
		A1 / 6	0.10	0.10	8140	6.2								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.10	0.10	8140	6.2								
		X+ A1 / 9	0.10	0.10	8140	5.9								
		X- A1 / 18	0.10	0.10	8140	6.2								
		Y+ A1 / 25	0.10	0.10	8140	5.9								
		Y- A1 / 31	0.10	0.10	8140	6.2								
9	73	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 9	0.17	0.17	8140	17.5								
		X- A1 / 18	0.17	0.17	8140	18.4								
		Y+ A1 / 25	0.17	0.17	8140	17.5								
		Y- A1 / 31	0.17	0.17	8140	18.4								
10	74	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 12	0.17	0.17	8140	17.5								
		X- A1 / 19	0.17	0.17	8140	18.4								
		Y+ A1 / 28	0.17	0.17	8140	17.5								
		Y- A1 / 30	0.17	0.17	8140	18.4								
11	75	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 14	0.17	0.17	8140	18.4								
		X- A1 / 21	0.17	0.17	8140	17.5								
		Y+ A1 / 35	0.17	0.17	8140	18.4								
		Y- A1 / 37	0.17	0.17	8140	17.5								
12	76	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 35 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE			RISULTATI				
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 14	0.17	0.17	8140	18.4								
		X- A1 / 21	0.17	0.17	8140	17.5								
		Y+ A1 / 35	0.17	0.17	8140	18.4								
		Y- A1 / 37	0.17	0.17	8140	17.5								
13	77	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 14	0.17	0.17	8140	18.4								
		X- A1 / 21	0.17	0.17	8140	17.5								
		Y+ A1 / 35	0.17	0.17	8140	18.4								
		Y- A1 / 37	0.17	0.17	8140	17.5								
14	78	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 15	0.17	0.17	8140	18.4								
		X- A1 / 24	0.17	0.17	8140	17.5								
		Y+ A1 / 34	0.17	0.17	8140	18.4								
		Y- A1 / 40	0.17	0.17	8140	17.5								
15	79	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 12	0.17	0.17	8140	17.5								
		X- A1 / 19	0.17	0.17	8140	18.4								
		Y+ A1 / 28	0.17	0.17	8140	17.5								
		Y- A1 / 30	0.17	0.17	8140	18.4								
16	80	A1 / 1	0.17	0.17	8140	18.4								
		A1 / 2	0.17	0.17	8140	17.8								
		A1 / 3	0.17	0.17	8140	18.4								
		A1 / 4	0.17	0.17	8140	17.8								
		A1 / 5	0.17	0.17	8140	18.4								
		A1 / 6	0.17	0.17	8140	18.4								
		A1 / 7	0.17	0.17	8140	17.8								
		A1 / 8	0.17	0.17	8140	18.4								
		X+ A1 / 9	0.17	0.17	8140	17.5								
		X- A1 / 18	0.17	0.17	8140	18.4								
		Y+ A1 / 25	0.17	0.17	8140	17.5								
		Y- A1 / 31	0.17	0.17	8140	18.4								
17	99	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 15	0.35	0.35	8140	72.7								
		X- A1 / 24	0.35	0.35	8140	69.1								
		Y+ A1 / 34	0.35	0.35	8140	72.7								
		Y- A1 / 40	0.35	0.35	8140	69.1								
18	100	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 36 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 15	0.35	0.35	8140	72.7								
		X- A1 / 24	0.35	0.35	8140	69.1								
		Y+ A1 / 34	0.35	0.35	8140	72.7								
		Y- A1 / 40	0.35	0.35	8140	69.1								
19	101	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 14	0.35	0.35	8140	72.7								
		X- A1 / 21	0.35	0.35	8140	69.1								
		Y+ A1 / 35	0.35	0.35	8140	72.7								
		Y- A1 / 37	0.35	0.35	8140	69.1								
20	117	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 15	0.35	0.35	8140	72.7								
		X- A1 / 24	0.35	0.35	8140	69.1								
		Y+ A1 / 34	0.35	0.35	8140	72.7								
		Y- A1 / 40	0.35	0.35	8140	69.1								
21	118	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 13	0.35	0.35	8140	72.7								
		X- A1 / 22	0.35	0.35	8140	69.1								
		Y+ A1 / 33	0.35	0.35	8140	72.7								
		Y- A1 / 39	0.35	0.35	8140	69.1								
22	119	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 14	0.35	0.35	8140	72.7								
		X- A1 / 21	0.35	0.35	8140	69.1								
		Y+ A1 / 35	0.35	0.35	8140	72.7								
		Y- A1 / 37	0.35	0.35	8140	69.1								
23	135	A1 / 1	0.35	0.35	8140	72.9								
		A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9								
		A1 / 4	0.35	0.35	8140	70.1								
		A1 / 5	0.35	0.35	8140	72.9								
		A1 / 6	0.35	0.35	8140	72.9								
		A1 / 7	0.35	0.35	8140	70.1								
		A1 / 8	0.35	0.35	8140	72.9								
		X+ A1 / 9	0.35	0.35	8140	69.1								
		X- A1 / 18	0.35	0.35	8140	72.7								
		Y+ A1 / 25	0.35	0.35	8140	69.1								
		Y- A1 / 31	0.35	0.35	8140	72.7								

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	Fg. 37 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER																
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI							
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica		
24	136	A1 / 1	0.35	0.35	8140	72.9										
		A1 / 2	0.35	0.35	8140	70.1										
		A1 / 3	0.35	0.35	8140	72.9										
		A1 / 4	0.35	0.35	8140	70.1										
		A1 / 5	0.35	0.35	8140	72.9										
		A1 / 6	0.35	0.35	8140	72.9										
		A1 / 7	0.35	0.35	8140	70.1										
		A1 / 8	0.35	0.35	8140	72.9										
		X+ A1 / 9	0.35	0.35	8140	69.1										
		X- A1 / 18	0.35	0.35	8140	72.7										
		Y+ A1 / 25	0.35	0.35	8140	69.1										
		Y- A1 / 31	0.35	0.35	8140	72.7										
		25	137	A1 / 1	0.35	0.35	8140	72.9								
				A1 / 2	0.35	0.35	8140	70.1								
A1 / 3	0.35			0.35	8140	72.9										
A1 / 4	0.35			0.35	8140	70.1										
A1 / 5	0.35			0.35	8140	72.9										
A1 / 6	0.35			0.35	8140	72.9										
A1 / 7	0.35			0.35	8140	70.1										
A1 / 8	0.35			0.35	8140	72.9										
X+ A1 / 12	0.35			0.35	8140	69.1										
X- A1 / 19	0.35			0.35	8140	72.7										
Y+ A1 / 28	0.35			0.35	8140	69.1										
Y- A1 / 30	0.35			0.35	8140	72.7										
26	150			A1 / 1	0.35	0.35	8140	72.9								
				A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9										
		A1 / 4	0.35	0.35	8140	70.1										
		A1 / 5	0.35	0.35	8140	72.9										
		A1 / 6	0.35	0.35	8140	72.9										
		A1 / 7	0.35	0.35	8140	70.1										
		A1 / 8	0.35	0.35	8140	72.9										
		X+ A1 / 9	0.35	0.35	8140	69.1										
		X- A1 / 18	0.35	0.35	8140	72.7										
		Y+ A1 / 25	0.35	0.35	8140	69.1										
		Y- A1 / 31	0.35	0.35	8140	72.7										
		27	151	A1 / 1	0.35	0.35	8140	72.9								
				A1 / 2	0.35	0.35	8140	70.1								
A1 / 3	0.35			0.35	8140	72.9										
A1 / 4	0.35			0.35	8140	70.1										
A1 / 5	0.35			0.35	8140	72.9										
A1 / 6	0.35			0.35	8140	72.9										
A1 / 7	0.35			0.35	8140	70.1										
A1 / 8	0.35			0.35	8140	72.9										
X+ A1 / 12	0.35			0.35	8140	69.1										
X- A1 / 19	0.35			0.35	8140	72.7										
Y+ A1 / 28	0.35			0.35	8140	69.1										
Y- A1 / 30	0.35			0.35	8140	72.7										
28	152			A1 / 1	0.35	0.35	8140	72.9								
				A1 / 2	0.35	0.35	8140	70.1								
		A1 / 3	0.35	0.35	8140	72.9										
		A1 / 4	0.35	0.35	8140	70.1										
		A1 / 5	0.35	0.35	8140	72.9										
		A1 / 6	0.35	0.35	8140	72.9										
		A1 / 7	0.35	0.35	8140	70.1										
		A1 / 8	0.35	0.35	8140	72.9										
		X+ A1 / 12	0.35	0.35	8140	69.1										
		X- A1 / 19	0.35	0.35	8140	72.7										
		Y+ A1 / 28	0.35	0.35	8140	69.1										
		Y- A1 / 30	0.35	0.35	8140	72.7										
		29	153	A1 / 1	0.20	0.20	8140	24.5								
				A1 / 2	0.20	0.20	8140	23.6								
A1 / 3	0.20			0.20	8140	24.5										
A1 / 4	0.20			0.20	8140	23.6										
A1 / 5	0.20			0.20	8140	24.5										
A1 / 6	0.20			0.20	8140	24.5										
A1 / 7	0.20			0.20	8140	23.6										
A1 / 8	0.20			0.20	8140	24.5										
X+ A1 / 15	0.20			0.20	8140	24.5										
X- A1 / 24	0.20			0.20	8140	23.3										
Y+ A1 / 34	0.20			0.20	8140	24.5										

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 38 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		Y-	A1 / 40	0.20	0.20	8140		23.3						
30	154		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 14	0.20	0.20	8140		24.5						
		X-	A1 / 21	0.20	0.20	8140		23.3						
		Y+	A1 / 35	0.20	0.20	8140		24.5						
		Y-	A1 / 37	0.20	0.20	8140		23.3						
31	155		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 14	0.20	0.20	8140		24.5						
		X-	A1 / 21	0.20	0.20	8140		23.3						
		Y+	A1 / 35	0.20	0.20	8140		24.5						
		Y-	A1 / 37	0.20	0.20	8140		23.3						
32	156		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 9	0.20	0.20	8140		23.3						
		X-	A1 / 18	0.20	0.20	8140		24.5						
		Y+	A1 / 25	0.20	0.20	8140		23.3						
		Y-	A1 / 31	0.20	0.20	8140		24.5						
33	157		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 9	0.20	0.20	8140		23.3						
		X-	A1 / 18	0.20	0.20	8140		24.5						
		Y+	A1 / 25	0.20	0.20	8140		23.3						
		Y-	A1 / 31	0.20	0.20	8140		24.5						
34	158		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 12	0.20	0.20	8140		23.3						
		X-	A1 / 19	0.20	0.20	8140		24.5						
		Y+	A1 / 28	0.20	0.20	8140		23.3						
		Y-	A1 / 30	0.20	0.20	8140		24.5						
35	159		A1 / 1	0.20	0.20	8140		24.5						
			A1 / 2	0.20	0.20	8140		23.6						
			A1 / 3	0.20	0.20	8140		24.5						
			A1 / 4	0.20	0.20	8140		23.6						
			A1 / 5	0.20	0.20	8140		24.5						
			A1 / 6	0.20	0.20	8140		24.5						
			A1 / 7	0.20	0.20	8140		23.6						
			A1 / 8	0.20	0.20	8140		24.5						
		X+	A1 / 9	0.20	0.20	8140		23.3						

 <b>SNAM RETE GAS</b>	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 39 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE			RISULTATI				
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		X- A1 / 18	0.20	0.20	8140	24.5								
		Y+ A1 / 25	0.20	0.20	8140	23.3								
		Y- A1 / 31	0.20	0.20	8140	24.5								
36	160	A1 / 1	0.20	0.20	8140	24.5								
		A1 / 2	0.20	0.20	8140	23.6								
		A1 / 3	0.20	0.20	8140	24.5								
		A1 / 4	0.20	0.20	8140	23.6								
		A1 / 5	0.20	0.20	8140	24.5								
		A1 / 6	0.20	0.20	8140	24.5								
		A1 / 7	0.20	0.20	8140	23.6								
		A1 / 8	0.20	0.20	8140	24.5								
		X+ A1 / 12	0.20	0.20	8140	23.3								
		X- A1 / 19	0.20	0.20	8140	24.5								
		Y+ A1 / 28	0.20	0.20	8140	23.3								
		Y- A1 / 30	0.20	0.20	8140	24.5								
37	161	A1 / 1	0.20	0.20	8140	24.5								
		A1 / 2	0.20	0.20	8140	23.6								
		A1 / 3	0.20	0.20	8140	24.5								
		A1 / 4	0.20	0.20	8140	23.6								
		A1 / 5	0.20	0.20	8140	24.5								
		A1 / 6	0.20	0.20	8140	24.5								
		A1 / 7	0.20	0.20	8140	23.6								
		A1 / 8	0.20	0.20	8140	24.5								
		X+ A1 / 12	0.20	0.20	8140	23.3								
		X- A1 / 19	0.20	0.20	8140	24.5								
		Y+ A1 / 28	0.20	0.20	8140	23.3								
		Y- A1 / 30	0.20	0.20	8140	24.5								
38	162	A1 / 1	0.20	0.20	8140	24.5								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.20	0.20	8140	24.5								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.20	0.20	8140	24.5								
		A1 / 6	0.20	0.20	8140	24.5								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.20	0.20	8140	24.5								
		X+ A1 / 15	0.20	0.20	8140	24.5								
		X- A1 / 24	0.20	0.20	8140	23.3								
		Y+ A1 / 34	0.20	0.20	8140	24.5								
		Y- A1 / 40	0.20	0.20	8140	23.3								
39	163	A1 / 1	0.20	0.20	8140	24.5								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.20	0.20	8140	24.5								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.20	0.20	8140	24.5								
		A1 / 6	0.20	0.20	8140	24.5								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.20	0.20	8140	24.5								
		X+ A1 / 15	0.20	0.20	8140	24.5								
		X- A1 / 24	0.20	0.20	8140	23.3								
		Y+ A1 / 34	0.20	0.20	8140	24.5								
		Y- A1 / 40	0.20	0.20	8140	23.3								
40	164	A1 / 1	0.20	0.20	8140	24.5								
		A1 / 2	0.00	0.00		0.0								
		A1 / 3	0.20	0.20	8140	24.5								
		A1 / 4	0.00	0.00		0.0								
		A1 / 5	0.20	0.20	8140	24.5								
		A1 / 6	0.20	0.20	8140	24.5								
		A1 / 7	0.00	0.00		0.0								
		A1 / 8	0.20	0.20	8140	24.5								
		X+ A1 / 14	0.20	0.20	8140	24.5								
		X- A1 / 21	0.20	0.20	8140	23.3								
		Y+ A1 / 35	0.20	0.20	8140	24.5								
		Y- A1 / 37	0.20	0.20	8140	23.3								
41	165	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 40 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mm <sup>2</sup>	QLim/Ar N/mm <sup>2</sup>	Status Verifica
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 10	0.40	0.40	8140	91.8								
		X- A1 / 17	0.40	0.40	8140	96.6								
		Y+ A1 / 27	0.40	0.40	8140	91.7								
		Y- A1 / 29	0.40	0.40	8140	96.6								
42	166	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 9	0.40	0.40	8140	91.8								
		X- A1 / 18	0.40	0.40	8140	96.6								
		Y+ A1 / 25	0.40	0.40	8140	91.7								
		Y- A1 / 31	0.40	0.40	8140	96.6								
43	167	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 9	0.40	0.40	8140	91.8								
		X- A1 / 18	0.40	0.40	8140	96.6								
		Y+ A1 / 25	0.40	0.40	8140	91.7								
		Y- A1 / 31	0.40	0.40	8140	96.6								
44	168	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 9	0.40	0.40	8140	91.8								
		X- A1 / 18	0.40	0.40	8140	96.6								
		Y+ A1 / 25	0.40	0.40	8140	91.7								
		Y- A1 / 31	0.40	0.40	8140	96.6								
45	169	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 9	0.40	0.40	8140	91.8								
		X- A1 / 18	0.40	0.40	8140	96.6								
		Y+ A1 / 25	0.40	0.40	8140	91.7								
		Y- A1 / 31	0.40	0.40	8140	96.6								
46	170	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 15	0.40	0.40	8140	96.6								
		X- A1 / 24	0.40	0.40	8140	91.8								
		Y+ A1 / 34	0.40	0.40	8140	96.6								
		Y- A1 / 40	0.40	0.40	8140	91.7								
47	171	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	Fg. 41 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

CARICO LIMITE PIASTRE WINKLER														
IDENTIFICATIVO					DRENATE		NON DRENATE			RISULTATI				
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf N/mc	QLimV (kN)	GamEf N/mc	QLimV (kN)	N (kN)	Coeff. Sicur.	Minimo CoeSic	N/Ar N/mmq	QLim/Ar N/mmq	Status Verifica
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 15	0.40	0.40	8140	96.6								
		X- A1 / 24	0.40	0.40	8140	91.8								
		Y+ A1 / 34	0.40	0.40	8140	96.6								
		Y- A1 / 40	0.40	0.40	8140	91.7								
48	172	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 15	0.40	0.40	8140	96.6								
		X- A1 / 24	0.40	0.40	8140	91.8								
		Y+ A1 / 34	0.40	0.40	8140	96.6								
		Y- A1 / 40	0.40	0.40	8140	91.7								
49	173	A1 / 1	0.40	0.40	8140	96.8								
		A1 / 2	0.40	0.40	8140	93.2								
		A1 / 3	0.40	0.40	8140	96.8								
		A1 / 4	0.40	0.40	8140	93.2								
		A1 / 5	0.40	0.40	8140	96.8								
		A1 / 6	0.40	0.40	8140	96.8								
		A1 / 7	0.40	0.40	8140	93.2								
		A1 / 8	0.40	0.40	8140	96.8								
		X+ A1 / 15	0.40	0.40	8140	96.6								
		X- A1 / 24	0.40	0.40	8140	91.8								
		Y+ A1 / 34	0.40	0.40	8140	96.6								
		Y- A1 / 40	0.40	0.40	8140	91.7								

PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO											
Comb N.ro	DRENATE				NON DRENATE				RISULTATI		
	Risult (kN)	Resist (kN)	Moltip. Collasso	%Pl. Moll	Risult (kN)	Resist (kN)	Moltip. Collasso	%Pl. Moll	Moltip. Minimo	STATUS (m)	
A1 / 1	342	359	1.050	0					1.050	OK	
A1 / 2	342	359	1.050	0						OK	
A1 / 3	342	359	1.050	0						OK	
A1 / 4	342	359	1.050	0						OK	
A1 / 5	342	359	1.050	0						OK	
A1 / 6	342	359	1.050	0						OK	
A1 / 7	342	359	1.050	0						OK	
A1 / 8	342	359	1.050	0						OK	
A1 / 9	245	257	1.050	0						OK	
A1 / 10	245	257	1.050	0						OK	
A1 / 11	245	257	1.050	0						OK	
A1 / 12	245	257	1.050	0						OK	
A1 / 13	245	257	1.050	0						OK	
A1 / 14	245	257	1.050	0						OK	
A1 / 15	245	257	1.050	0						OK	
A1 / 16	245	257	1.050	0						OK	
A1 / 17	245	257	1.050	0						OK	
A1 / 18	245	257	1.050	0						OK	
A1 / 19	245	257	1.050	0						OK	
A1 / 20	245	257	1.050	0						OK	
A1 / 21	245	257	1.050	0						OK	
A1 / 22	245	257	1.050	0						OK	
A1 / 23	245	257	1.050	0						OK	
A1 / 24	245	257	1.050	0						OK	
A1 / 25	245	257	1.050	0						OK	
A1 / 26	245	257	1.050	0						OK	
A1 / 27	245	257	1.050	0						OK	
A1 / 28	245	257	1.050	0						OK	
A1 / 29	245	257	1.050	0						OK	
A1 / 30	245	257	1.050	0						OK	
A1 / 31	245	257	1.050	0						OK	



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 42 di 81</b>	<b>Rev.</b> <b>0</b>

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PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO										
Comb N.ro	DRENATE				NON DRENATE				RISULTATI	
	Risult (kN)	Resist (kN)	Moltip. Collasso	%Pl. Moll	Risult (kN)	Resist (kN)	Moltip. Collasso	%Pl. Moll	Moltip. Minimo	STATUS (m)
A1 / 32	245	257	1.050	0						OK
A1 / 33	245	257	1.050	0						OK
A1 / 34	245	257	1.050	0						OK
A1 / 35	245	257	1.050	0						OK
A1 / 36	245	257	1.050	0						OK
A1 / 37	245	257	1.050	0						OK
A1 / 38	245	257	1.050	0						OK
A1 / 39	245	257	1.050	0						OK
A1 / 40	245	257	1.050	0						OK

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.:A1 / 1														
Nodo3d N.ro	DRENATE		NON DRENATE		Nodo3d N.ro	DRENATE		NON DRENATE		Nodo3d N.ro	DRENATE		NON DRENATE	
	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI		SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI		SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI
61	-0.093	ELAST.			62	-0.092	ELAST.			63	-0.027	ELAST.		
64	-0.028	ELAST.			69	-0.020	ELAST.			70	-0.101	ELAST.		
71	-0.100	ELAST.			72	-0.018	ELAST.			73	-0.019	ELAST.		
74	-0.026	ELAST.			75	-0.020	ELAST.			76	-0.028	ELAST.		
77	-0.093	ELAST.			78	-0.101	ELAST.			79	-0.100	ELAST.		
80	-0.091	ELAST.			99	-0.027	ELAST.			100	-0.027	ELAST.		
101	-0.028	ELAST.			117	-0.044	ELAST.			118	-0.060	ELAST.		
119	-0.077	ELAST.			135	-0.093	ELAST.			136	-0.092	ELAST.		
137	-0.092	ELAST.			150	-0.075	ELAST.			151	-0.059	ELAST.		
152	-0.043	ELAST.			153	-0.044	ELAST.			154	-0.061	ELAST.		
155	-0.077	ELAST.			156	-0.101	ELAST.			157	-0.100	ELAST.		
158	-0.100	ELAST.			159	-0.075	ELAST.			160	-0.059	ELAST.		
161	-0.043	ELAST.			162	-0.019	ELAST.			163	-0.019	ELAST.		
164	-0.020	ELAST.			165	-0.076	ELAST.			166	-0.059	ELAST.		
167	-0.043	ELAST.			168	-0.076	ELAST.			169	-0.060	ELAST.		
170	-0.044	ELAST.			171	-0.076	ELAST.			172	-0.060	ELAST.		
173	-0.044	ELAST.												

CEDIMENTI ELASTICI ED EDOMETRICI															
Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm
15	Rare 1	0.53		16	Rare 1	0.53		17	Rare 1	0.25		18	Rare 1	0.25	
	Rare 2	0.63			Rare 2	0.62			Rare 2	0.15			Rare 2	0.16	
	Rare 3	0.53			Rare 3	0.53			Rare 3	0.25			Rare 3	0.25	
	Rare 4	0.63			Rare 4	0.62			Rare 4	0.15			Rare 4	0.16	
	Rare 5	0.53			Rare 5	0.53			Rare 5	0.25			Rare 5	0.25	
	Rare 6	0.53			Rare 6	0.53			Rare 6	0.25			Rare 6	0.25	
	Rare 7	0.63			Rare 7	0.62			Rare 7	0.15			Rare 7	0.16	
	Rare 8	0.53			Rare 8	0.53			Rare 8	0.25			Rare 8	0.25	
	Freq 1	0.39			Freq 1	0.39			Freq 1	0.39			Freq 1	0.39	
	Freq 2	0.44			Freq 2	0.43			Freq 2	0.34			Freq 2	0.35	
	Freq 3	0.39			Freq 3	0.39			Freq 3	0.39			Freq 3	0.39	
	Freq 4	0.39			Freq 4	0.39			Freq 4	0.39			Freq 4	0.39	
	Perm 1	0.39			Perm 1	0.39			Perm 1	0.39			Perm 1	0.39	
	MAX.	0.63			MAX.	0.62			MAX.	0.39			MAX.	0.39	
19	Rare 1	0.14		20	Rare 1	0.29		21	Rare 1	0.29		22	Rare 1	0.13	
	Rare 2	0.09			Rare 2	0.35			Rare 2	0.34			Rare 2	0.09	
	Rare 3	0.14			Rare 3	0.29			Rare 3	0.29			Rare 3	0.13	
	Rare 4	0.09			Rare 4	0.35			Rare 4	0.34			Rare 4	0.09	
	Rare 5	0.14			Rare 5	0.29			Rare 5	0.29			Rare 5	0.13	
	Rare 6	0.14			Rare 6	0.29			Rare 6	0.29			Rare 6	0.13	
	Rare 7	0.09			Rare 7	0.35			Rare 7	0.34			Rare 7	0.09	
	Rare 8	0.14			Rare 8	0.29			Rare 8	0.29			Rare 8	0.13	
	Freq 1	0.22			Freq 1	0.22			Freq 1	0.21			Freq 1	0.21	
	Freq 2	0.19			Freq 2	0.24			Freq 2	0.24			Freq 2	0.19	
	Freq 3	0.22			Freq 3	0.22			Freq 3	0.21			Freq 3	0.21	
	Freq 4	0.22			Freq 4	0.22			Freq 4	0.21			Freq 4	0.21	
	Perm 1	0.22			Perm 1	0.22			Perm 1	0.21			Perm 1	0.21	
	MAX.	0.22			MAX.	0.35			MAX.	0.34			MAX.	0.21	
23	Rare 1	0.18		24	Rare 1	0.20		25	Rare 1	0.18		26	Rare 1	0.20	
	Rare 2	0.10			Rare 2	0.13			Rare 2	0.10			Rare 2	0.13	
	Rare 3	0.18			Rare 3	0.20			Rare 3	0.18			Rare 3	0.20	
	Rare 4	0.10			Rare 4	0.13			Rare 4	0.10			Rare 4	0.13	
	Rare 5	0.18			Rare 5	0.20			Rare 5	0.18			Rare 5	0.20	
	Rare 6	0.18			Rare 6	0.20			Rare 6	0.18			Rare 6	0.20	
	Rare 7	0.10			Rare 7	0.13			Rare 7	0.10			Rare 7	0.13	
	Rare 8	0.18			Rare 8	0.20			Rare 8	0.18			Rare 8	0.20	
	Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31	
	Freq 2	0.26			Freq 2	0.27			Freq 2	0.27			Freq 2	0.28	
	Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31	
	Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 43 di 81</b>	<b>Rev.</b> <b>0</b>

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CEDIMENTI ELASTICI ED EDMETRICI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.31			MAX.	0.31			MAX.	0.31			MAX.	0.31		27	Rare 1	0.42		28	Rare 1	0.44		29	Rare 1	0.44		30	Rare 1	0.42			Rare 2	0.50			Rare 2	0.53			Rare 2	0.52			Rare 2	0.49			Rare 3	0.42			Rare 3	0.44			Rare 3	0.44			Rare 3	0.42			Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56	
	MAX.	0.31			MAX.	0.31			MAX.	0.31			MAX.	0.31		27	Rare 1	0.42		28	Rare 1	0.44		29	Rare 1	0.44		30	Rare 1	0.42			Rare 2	0.50			Rare 2	0.53			Rare 2	0.52			Rare 2	0.49			Rare 3	0.42			Rare 3	0.44			Rare 3	0.44			Rare 3	0.42			Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																	
27	Rare 1	0.42		28	Rare 1	0.44		29	Rare 1	0.44		30	Rare 1	0.42			Rare 2	0.50			Rare 2	0.53			Rare 2	0.52			Rare 2	0.49			Rare 3	0.42			Rare 3	0.44			Rare 3	0.44			Rare 3	0.42			Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																	
	Rare 2	0.50			Rare 2	0.53			Rare 2	0.52			Rare 2	0.49			Rare 3	0.42			Rare 3	0.44			Rare 3	0.44			Rare 3	0.42			Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																	
	Rare 3	0.42			Rare 3	0.44			Rare 3	0.44			Rare 3	0.42			Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																	
	Rare 4	0.50			Rare 4	0.53			Rare 4	0.52			Rare 4	0.49			Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																	
	Rare 5	0.42			Rare 5	0.44			Rare 5	0.44			Rare 5	0.42			Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																	
	Rare 6	0.42			Rare 6	0.44			Rare 6	0.44			Rare 6	0.42			Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																	
	Rare 7	0.50			Rare 7	0.53			Rare 7	0.52			Rare 7	0.49			Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																	
	Rare 8	0.42			Rare 8	0.44			Rare 8	0.44			Rare 8	0.42			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																	
	Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 1	0.31			Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																	
	Freq 2	0.35			Freq 2	0.36			Freq 2	0.35			Freq 2	0.34			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																	
	Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 3	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																	
	Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Freq 4	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																	
	Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			Perm 1	0.31			MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																	
	MAX.	0.50			MAX.	0.53			MAX.	0.52			MAX.	0.49		31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																	
31	Rare 1	0.30		32	Rare 1	0.38		33	Rare 1	0.43		34	Rare 1	0.51			Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																	
	Rare 2	0.26			Rare 2	0.38			Rare 2	0.48			Rare 2	0.61			Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																	
	Rare 3	0.30			Rare 3	0.38			Rare 3	0.43			Rare 3	0.51			Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																	
	Rare 4	0.26			Rare 4	0.38			Rare 4	0.48			Rare 4	0.61			Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																	
	Rare 5	0.30			Rare 5	0.38			Rare 5	0.43			Rare 5	0.51			Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																	
	Rare 6	0.30			Rare 6	0.38			Rare 6	0.43			Rare 6	0.51			Rare 7	0.26			Rare 7	0.38			Rare 7	0.48			Rare 7	0.61			Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																	
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	Rare 8	0.30			Rare 8	0.38			Rare 8	0.43			Rare 8	0.51			Freq 1	0.37			Freq 1	0.38			Freq 1	0.37			Freq 1	0.37			Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																	
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	Freq 2	0.34			Freq 2	0.38			Freq 2	0.39			Freq 2	0.41			Freq 3	0.37			Freq 3	0.38			Freq 3	0.37			Freq 3	0.37			Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Freq 4	0.37			Freq 4	0.38			Freq 4	0.37			Freq 4	0.37			Perm 1	0.37			Perm 1	0.38			Perm 1	0.37			Perm 1	0.37			MAX.	0.37			MAX.	0.38			MAX.	0.48			MAX.	0.61		35	Rare 1	0.54		36	Rare 1	0.51		37	Rare 1	0.43		38	Rare 1	0.38			Rare 2	0.64			Rare 2	0.61			Rare 2	0.47			Rare 2	0.38			Rare 3	0.54			Rare 3	0.51			Rare 3	0.43			Rare 3	0.38			Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Rare 4	0.64			Rare 4	0.61			Rare 4	0.47			Rare 4	0.38			Rare 5	0.54			Rare 5	0.51			Rare 5	0.43			Rare 5	0.38			Rare 6	0.54			Rare 6	0.51			Rare 6	0.43			Rare 6	0.38			Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Rare 7	0.64			Rare 7	0.61			Rare 7	0.47			Rare 7	0.38			Rare 8	0.54			Rare 8	0.51			Rare 8	0.43			Rare 8	0.38			Freq 1	0.38			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Freq 2	0.43			Freq 2	0.41			Freq 2	0.38			Freq 2	0.38			Freq 3	0.38			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Freq 4	0.38			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Perm 1	0.38			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			MAX.	0.64			MAX.	0.61			MAX.	0.47			MAX.	0.38		39	Rare 1	0.29		40	Rare 1	0.21		41	Rare 1	0.22		42	Rare 1	0.22			Rare 2	0.25			Rare 2	0.12			Rare 2	0.13			Rare 2	0.12			Rare 3	0.29			Rare 3	0.21			Rare 3	0.22			Rare 3	0.22			Rare 4	0.25			Rare 4	0.12			Rare 4	0.13			Rare 4	0.12			Rare 5	0.29			Rare 5	0.21			Rare 5	0.22			Rare 5	0.22			Rare 6	0.29			Rare 6	0.21			Rare 6	0.22			Rare 6	0.22			Rare 7	0.25			Rare 7	0.12			Rare 7	0.13			Rare 7	0.12			Rare 8	0.29			Rare 8	0.21			Rare 8	0.22			Rare 8	0.22			Freq 1	0.36			Freq 1	0.36			Freq 1	0.38			Freq 1	0.36			Freq 2	0.34			Freq 2	0.31			Freq 2	0.33			Freq 2	0.31			Freq 3	0.36			Freq 3	0.36			Freq 3	0.38			Freq 3	0.36			Freq 4	0.36			Freq 4	0.36			Freq 4	0.38			Freq 4	0.36			Perm 1	0.36			Perm 1	0.36			Perm 1	0.38			Perm 1	0.36			MAX.	0.36			MAX.	0.36			MAX.	0.38			MAX.	0.36		43	Rare 1	0.63		44	Rare 1	0.56		45	Rare 1	0.43		46	Rare 1	0.66			Rare 2	0.69			Rare 2	0.56			Rare 2	0.37			Rare 2	0.73			Rare 3	0.63			Rare 3	0.56			Rare 3	0.43			Rare 3	0.66			Rare 4	0.69			Rare 4	0.56			Rare 4	0.37			Rare 4	0.73			Rare 5	0.63			Rare 5	0.56			Rare 5	0.43			Rare 5	0.66			Rare 6	0.63			Rare 6	0.56			Rare 6	0.43			Rare 6	0.66			Rare 7	0.69			Rare 7	0.56			Rare 7	0.37			Rare 7	0.73			Rare 8	0.63			Rare 8	0.56			Rare 8	0.43			Rare 8	0.66			Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Freq 1	0.53			Freq 1	0.56			Freq 1	0.53			Freq 1	0.56			Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Freq 2	0.56			Freq 2	0.56			Freq 2	0.50			Freq 2	0.59			Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Freq 3	0.53			Freq 3	0.56			Freq 3	0.53			Freq 3	0.56			Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Freq 4	0.53			Freq 4	0.56			Freq 4	0.53			Freq 4	0.56			Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Perm 1	0.53			Perm 1	0.56			Perm 1	0.53			Perm 1	0.56			MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	MAX.	0.69			MAX.	0.56			MAX.	0.53			MAX.	0.73		47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
47	Rare 1	0.59		48	Rare 1	0.46		49	Rare 1	0.63		50	Rare 1	0.56			Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Rare 2	0.59			Rare 2	0.39			Rare 2	0.70			Rare 2	0.56			Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Rare 3	0.59			Rare 3	0.46			Rare 3	0.63			Rare 3	0.56			Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Rare 4	0.59			Rare 4	0.39			Rare 4	0.70			Rare 4	0.56			Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Rare 5	0.59			Rare 5	0.46			Rare 5	0.63			Rare 5	0.56			Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Rare 6	0.59			Rare 6	0.46			Rare 6	0.63			Rare 6	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	













	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 49 di 81	<b>Rev.</b> 0

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 2																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
2.3	0.011		2.3	0.016		2.3	0.018		2.3	0.016		2.5	0.016		2.5	0.015	
2.4	0.010		2.4	0.015		2.4	0.017		2.4	0.015		2.6	0.015		2.6	0.014	
2.5	0.008		2.5	0.013		2.5	0.015		2.5	0.013		2.7	0.013		2.7	0.013	
2.6	0.007		2.6	0.012		2.6	0.014		2.6	0.012		2.8	0.012		2.8	0.012	
2.7	0.006		2.7	0.011		2.7	0.013		2.7	0.011		2.9	0.011		2.9	0.010	
2.8	0.005		2.8	0.010		2.8	0.011		2.8	0.010		3.0	0.011		3.0	0.009	
2.9	0.004		2.9	0.008		2.9	0.010		2.9	0.008		3.1	0.010		3.1	0.008	
3.0	0.004		3.0	0.008		3.0	0.009		3.0	0.008		3.2	0.008		3.2	0.006	
3.1	0.003		3.1	0.006		3.1	0.007		3.1	0.006		3.3	0.006		3.3	0.004	
3.2	0.002		3.2	0.005		3.2	0.005		3.2	0.005		3.2	0.004		3.2	0.003	
3.3	0.001		3.3	0.004		3.3	0.004		3.3	0.003		3.3	0.003		3.3	0.002	
3.3	0.003		0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.003	
45	0.7	0.050	46	0.7	0.121	47	0.7	0.088	48	0.7	0.052	49	0.7	0.118	50	0.7	0.087
	0.8	0.032		0.8	0.074		0.8	0.057		0.8	0.034		0.8	0.071		0.8	0.054
	0.9	0.031		0.9	0.068		0.9	0.053		0.9	0.033		0.9	0.065		0.9	0.051
	1.0	0.030		1.0	0.063		1.0	0.050		1.0	0.032		1.0	0.060		1.0	0.048
	1.1	0.029		1.1	0.058		1.1	0.048		1.1	0.031		1.1	0.055		1.1	0.045
	1.2	0.028		1.2	0.054		1.2	0.045		1.2	0.030		1.2	0.050		1.2	0.042
	1.3	0.027		1.3	0.049		1.3	0.042		1.3	0.029		1.3	0.046		1.3	0.039
	1.4	0.025		1.4	0.045		1.4	0.039		1.4	0.027		1.4	0.042		1.4	0.036
	1.5	0.024		1.5	0.041		1.5	0.036		1.5	0.026		1.5	0.039		1.5	0.034
	1.6	0.023		1.6	0.038		1.6	0.034		1.6	0.025		1.6	0.036		1.6	0.031
	1.7	0.022		1.7	0.035		1.7	0.031		1.7	0.023		1.7	0.033		1.7	0.029
	1.8	0.021		1.8	0.032		1.8	0.029		1.8	0.022		1.8	0.030		1.8	0.027
	1.9	0.020		1.9	0.030		1.9	0.027		1.9	0.021		1.9	0.028		1.9	0.025
	2.0	0.019		2.0	0.027		2.0	0.025		2.0	0.020		2.0	0.026		2.0	0.024
	2.1	0.018		2.1	0.025		2.1	0.023		2.1	0.019		2.1	0.024		2.1	0.022
	2.2	0.016		2.2	0.023		2.2	0.022		2.2	0.018		2.2	0.022		2.2	0.020
	2.3	0.014		2.3	0.022		2.3	0.020		2.3	0.015		2.3	0.020		2.3	0.018
	2.4	0.013		2.4	0.020		2.4	0.019		2.4	0.014		2.4	0.018		2.4	0.017
	2.5	0.011		2.5	0.018		2.5	0.017		2.5	0.011		2.5	0.016		2.5	0.015
	2.6	0.010		2.6	0.017		2.6	0.016		2.6	0.011		2.6	0.015		2.6	0.014
	2.7	0.008		2.7	0.016		2.7	0.015		2.7	0.009		2.7	0.013		2.7	0.013
	2.8	0.007		2.8	0.015		2.8	0.014		2.8	0.009		2.8	0.012		2.8	0.012
	2.9	0.006		2.9	0.013		2.9	0.011		2.9	0.007		2.9	0.011		2.9	0.010
	3.0	0.006		3.0	0.012		3.0	0.010		3.0	0.007		3.0	0.011		3.0	0.009
	3.1	0.005		3.1	0.011		3.1	0.009		3.1	0.006		3.1	0.010		3.1	0.008
	3.2	0.004		3.2	0.008		3.2	0.006		3.2	0.004		3.2	0.008		3.2	0.006
	3.3	0.002		3.3	0.006		3.3	0.004		3.3	0.002		3.3	0.006		3.3	0.004
	3.2	0.002		3.2	0.005		3.2	0.005		3.2	0.005		3.2	0.004		3.2	0.003
	3.3	0.001		3.3	0.004		3.3	0.004		3.3	0.003		3.3	0.003		3.3	0.002
	3.3	0.003		0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.003
51	0.7	0.051															
	0.8	0.033															
	0.9	0.031															
	1.0	0.030															
	1.1	0.029															
	1.2	0.028															
	1.3	0.027															
	1.4	0.026															
	1.5	0.024															
	1.6	0.023															
	1.7	0.022															
	1.8	0.021															
	1.9	0.020															
	2.0	0.019															
	2.1	0.018															
	2.2	0.016															
	2.3	0.014															
	2.4	0.013															
	2.5	0.011															
	2.6	0.010															
	2.7	0.008															
	2.8	0.008															
	2.9	0.006															
	3.0	0.006															
	3.1	0.006															
	3.2	0.004															
	3.3	0.002															
	3.2	0.002															
	3.3	0.001															
	3.3	0.003															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 3																	
Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.





	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 52 di 81	<b>Rev.</b> 0

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE: Rare 3																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
1.0	0.036		1.0	0.057		1.0	0.050		1.0	0.038		1.0	0.054		1.0	0.048	
1.1	0.034		1.1	0.053		1.1	0.048		1.1	0.036		1.1	0.050		1.1	0.045	
1.2	0.032		1.2	0.049		1.2	0.045		1.2	0.034		1.2	0.046		1.2	0.042	
1.3	0.030		1.3	0.045		1.3	0.042		1.3	0.033		1.3	0.042		1.3	0.039	
1.4	0.029		1.4	0.042		1.4	0.039		1.4	0.031		1.4	0.039		1.4	0.036	
1.5	0.027		1.5	0.038		1.5	0.036		1.5	0.029		1.5	0.036		1.5	0.034	
1.6	0.025		1.6	0.035		1.6	0.033		1.6	0.027		1.6	0.033		1.6	0.031	
1.7	0.024		1.7	0.033		1.7	0.031		1.7	0.026		1.7	0.031		1.7	0.029	
1.8	0.023		1.8	0.030		1.8	0.029		1.8	0.024		1.8	0.028		1.8	0.027	
1.9	0.021		1.9	0.028		1.9	0.027		1.9	0.023		1.9	0.026		1.9	0.025	
2.0	0.020		2.0	0.026		2.0	0.025		2.0	0.021		2.0	0.024		2.0	0.024	
2.1	0.019		2.1	0.024		2.1	0.023		2.1	0.020		2.1	0.022		2.1	0.022	
2.2	0.017		2.2	0.022		2.2	0.022		2.2	0.019		2.2	0.021		2.2	0.020	
2.3	0.015		2.3	0.020		2.3	0.020		2.3	0.016		2.3	0.019		2.3	0.018	
2.4	0.014		2.4	0.019		2.4	0.019		2.4	0.015		2.4	0.017		2.4	0.017	
2.5	0.012		2.5	0.017		2.5	0.017		2.5	0.013		2.5	0.015		2.5	0.015	
2.6	0.011		2.6	0.016		2.6	0.016		2.6	0.012		2.6	0.014		2.6	0.014	
2.7	0.009		2.7	0.015		2.7	0.015		2.7	0.011		2.7	0.012		2.7	0.013	
2.8	0.008		2.8	0.014		2.8	0.014		2.8	0.010		2.8	0.011		2.8	0.012	
2.9	0.007		2.9	0.012		2.9	0.011		2.9	0.008		2.9	0.010		2.9	0.010	
3.0	0.007		3.0	0.011		3.0	0.010		3.0	0.008		3.0	0.010		3.0	0.009	
3.1	0.006		3.1	0.010		3.1	0.009		3.1	0.007		3.1	0.009		3.1	0.008	
3.2	0.004		3.2	0.007		3.2	0.006		3.2	0.005		3.2	0.007		3.2	0.006	
3.3	0.003		3.3	0.005		3.3	0.004		3.3	0.003		3.3	0.005		3.3	0.004	
3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.004		3.2	0.003	
3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.002		3.3	0.002	
3.3	0.002		3.3	0.001		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002	
51	0.7	0.065															
	0.8	0.040															
	0.9	0.038															
	1.0	0.036															
	1.1	0.034															
	1.2	0.032															
	1.3	0.031															
	1.4	0.029															
	1.5	0.027															
	1.6	0.026															
	1.7	0.024															
	1.8	0.023															
	1.9	0.021															
	2.0	0.020															
	2.1	0.019															
	2.2	0.017															
	2.3	0.015															
	2.4	0.014															
	2.5	0.012															
	2.6	0.011															
	2.7	0.009															
	2.8	0.009															
	2.9	0.007															
	3.0	0.007															
	3.1	0.006															
	3.2	0.004															
	3.3	0.003															
	3.2	0.002															
	3.3	0.001															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE: Rare 4																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.140	16	0.6	0.138	17	0.6	0.013	18	0.6	0.015	19	1.9	0.008	20	0.4	0.069
	0.7	0.066		0.7	0.065		0.7	0.009		0.7	0.010		2.0	0.008		0.5	0.040
	0.8	0.056		0.8	0.055		0.8	0.010		0.8	0.010		2.1	0.008		0.6	0.037
	0.9	0.049		0.9	0.048		0.9	0.010		0.9	0.011		2.2	0.007		0.7	0.033
	1.0	0.043		1.0	0.043		1.0	0.011		1.0	0.011		2.3	0.007		0.8	0.031
	1.1	0.039		1.1	0.039		1.1	0.011		1.1	0.012		2.4	0.006		0.9	0.028
	1.2	0.036		1.2	0.035		1.2	0.012		1.2	0.012		2.5	0.006		1.0	0.026
	1.3	0.033		1.3	0.033		1.3	0.012		1.3	0.012		2.6	0.005		1.1	0.025
	1.4	0.030		1.4	0.030		1.4	0.012		1.4	0.012		2.7	0.005		1.2	0.023
	1.5	0.028		1.5	0.028		1.5	0.012		1.5	0.012		2.8	0.003		1.3	0.022
	1.6	0.026		1.6	0.026		1.6	0.012		1.6	0.012		2.9	0.003		1.4	0.021
	1.7	0.024		1.7	0.024		1.7	0.012		1.7	0.012		3.0	0.002		1.5	0.020
	1.8	0.023		1.8	0.023		1.8	0.012		1.8	0.012		3.1	0.002		1.6	0.019
	1.9	0.021		1.9	0.021		1.9	0.011		1.9	0.012		3.2	0.001		1.7	0.018
	2.0	0.020		2.0	0.020		2.0	0.011		2.0	0.011		3.3	0.001		1.8	0.017





	<b>PROGETTISTA</b> 		<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA		<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar		Fg. 55 di 81	<b>Rev.</b> 0

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 4																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
2.3	0.014		2.3	0.022		2.3	0.020		2.3	0.015		2.3	0.020		2.3	0.018	
2.4	0.013		2.4	0.020		2.4	0.019		2.4	0.014		2.4	0.018		2.4	0.017	
2.5	0.011		2.5	0.018		2.5	0.017		2.5	0.011		2.5	0.016		2.5	0.015	
2.6	0.010		2.6	0.017		2.6	0.016		2.6	0.011		2.6	0.015		2.6	0.014	
2.7	0.008		2.7	0.016		2.7	0.015		2.7	0.009		2.7	0.013		2.7	0.013	
2.8	0.007		2.8	0.015		2.8	0.014		2.8	0.009		2.8	0.012		2.8	0.012	
2.9	0.006		2.9	0.013		2.9	0.011		2.9	0.007		2.9	0.011		2.9	0.010	
3.0	0.006		3.0	0.012		3.0	0.010		3.0	0.007		3.0	0.011		3.0	0.009	
3.1	0.005		3.1	0.011		3.1	0.009		3.1	0.006		3.1	0.010		3.1	0.008	
3.2	0.004		3.2	0.008		3.2	0.006		3.2	0.004		3.2	0.008		3.2	0.006	
3.3	0.002		3.3	0.006		3.3	0.004		3.3	0.002		3.3	0.006		3.3	0.004	
3.2	0.002		3.2	0.005		3.2	0.005		3.2	0.005		3.2	0.004		3.2	0.003	
3.3	0.001		3.3	0.004		3.3	0.004		3.3	0.003		3.3	0.003		3.3	0.002	
3.3	0.003		0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.003	
51	0.7	0.051															
	0.8	0.033															
	0.9	0.031															
	1.0	0.030															
	1.1	0.029															
	1.2	0.028															
	1.3	0.027															
	1.4	0.026															
	1.5	0.024															
	1.6	0.023															
	1.7	0.022															
	1.8	0.021															
	1.9	0.020															
	2.0	0.019															
	2.1	0.018															
	2.2	0.016															
	2.3	0.014															
	2.4	0.013															
	2.5	0.011															
	2.6	0.010															
	2.7	0.008															
	2.8	0.008															
	2.9	0.006															
	3.0	0.006															
	3.1	0.006															
	3.2	0.004															
	3.3	0.002															
	3.2	0.002															
	3.3	0.001															
	3.3	0.003															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 5																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.115	16	0.6	0.113	17	0.6	0.038	18	0.6	0.039	19	0.4	0.013	20	0.4	0.055
	0.7	0.055		0.7	0.054		0.7	0.020		0.7	0.021		0.5	0.009		0.5	0.032
	0.8	0.046		0.8	0.046		0.8	0.018		0.8	0.019		0.6	0.009		0.6	0.030
	0.9	0.041		0.9	0.040		0.9	0.018		0.9	0.018		0.7	0.009		0.7	0.027
	1.0	0.037		1.0	0.036		1.0	0.017		1.0	0.018		0.8	0.009		0.8	0.025
	1.1	0.034		1.1	0.033		1.1	0.017		1.1	0.017		0.9	0.009		0.9	0.024
	1.2	0.031		1.2	0.031		1.2	0.016		1.2	0.017		1.0	0.010		1.0	0.022
	1.3	0.029		1.3	0.028		1.3	0.016		1.3	0.016		1.1	0.010		1.1	0.021
	1.4	0.027		1.4	0.026		1.4	0.015		1.4	0.016		1.2	0.010		1.2	0.020
	1.5	0.025		1.5	0.025		1.5	0.015		1.5	0.015		1.3	0.010		1.3	0.019
	1.6	0.023		1.6	0.023		1.6	0.015		1.6	0.015		1.4	0.010		1.4	0.018
	1.7	0.022		1.7	0.022		1.7	0.014		1.7	0.014		1.5	0.010		1.5	0.018
	1.8	0.021		1.8	0.020		1.8	0.014		1.8	0.014		1.6	0.010		1.6	0.017
	1.9	0.019		1.9	0.019		1.9	0.013		1.9	0.013		1.7	0.010		1.7	0.016
	2.0	0.018		2.0	0.018		2.0	0.013		2.0	0.013		1.8	0.010		1.8	0.015
	2.1	0.017		2.1	0.017		2.1	0.012		2.1	0.012		1.9	0.010		1.9	0.015
	2.2	0.016		2.2	0.016		2.2	0.012		2.2	0.012		2.0	0.010		2.0	0.014
	2.3	0.015		2.3	0.014		2.3	0.011		2.3	0.011		2.1	0.009		2.1	0.014
	2.4	0.014		2.4	0.014		2.4	0.010		2.4	0.010		2.2	0.008		2.2	0.012
	2.5	0.011		2.5	0.011		2.5	0.008		2.5	0.008		2.3	0.008		2.3	0.011
	2.6	0.010		2.6	0.010		2.6	0.007		2.6	0.007		2.4	0.007		2.4	0.010
	2.7	0.008		2.7	0.008		2.7	0.005		2.7	0.005		2.5	0.007		2.5	0.009
	2.8	0.008		2.8	0.007		2.8	0.005		2.8	0.005		2.6	0.006		2.6	0.008
	2.9	0.007		2.9	0.007		2.9	0.004		2.9	0.004		2.7	0.005		2.7	0.008
	3.0	0.006		3.0	0.006		3.0	0.003		3.0	0.003		2.8	0.004		2.8	0.006
	3.1	0.006		3.1	0.006		3.1	0.003		3.1	0.003		2.9	0.004		2.9	0.005
	3.2	0.004		3.2	0.004		3.2	0.002		3.2	0.002		3.0	0.002		3.0	0.004
	3.3	0.003		3.3	0.003		3.3	0.001		3.3	0.001		3.1	0.002		3.1	0.003







	<b>PROGETTISTA</b> 		<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>		<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>		Fg. 58 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 5																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
	3.3	0.002		3.3	0.001		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002
51	0.7	0.065															
	0.8	0.040															
	0.9	0.038															
	1.0	0.036															
	1.1	0.034															
	1.2	0.032															
	1.3	0.031															
	1.4	0.029															
	1.5	0.027															
	1.6	0.026															
	1.7	0.024															
	1.8	0.023															
	1.9	0.021															
	2.0	0.020															
	2.1	0.019															
	2.2	0.017															
	2.3	0.015															
	2.4	0.014															
	2.5	0.012															
	2.6	0.011															
	2.7	0.009															
	2.8	0.009															
	2.9	0.007															
	3.0	0.007															
	3.1	0.006															
	3.2	0.004															
	3.3	0.003															
	3.2	0.002															
	3.3	0.001															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 6																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.115	16	0.6	0.113	17	0.6	0.038	18	0.6	0.040	19	0.4	0.013	20	0.4	0.055
	0.7	0.055		0.7	0.054		0.7	0.020		0.7	0.021		0.5	0.009		0.5	0.032
	0.8	0.046		0.8	0.046		0.8	0.018		0.8	0.019		0.6	0.009		0.6	0.030
	0.9	0.041		0.9	0.040		0.9	0.018		0.9	0.018		0.7	0.009		0.7	0.027
	1.0	0.037		1.0	0.036		1.0	0.017		1.0	0.017		0.8	0.009		0.8	0.025
	1.1	0.034		1.1	0.033		1.1	0.017		1.1	0.017		0.9	0.009		0.9	0.024
	1.2	0.031		1.2	0.031		1.2	0.016		1.2	0.017		1.0	0.010		1.0	0.022
	1.3	0.029		1.3	0.028		1.3	0.016		1.3	0.016		1.1	0.010		1.1	0.021
	1.4	0.027		1.4	0.026		1.4	0.015		1.4	0.016		1.2	0.010		1.2	0.020
	1.5	0.025		1.5	0.025		1.5	0.015		1.5	0.015		1.3	0.010		1.3	0.019
	1.6	0.023		1.6	0.023		1.6	0.015		1.6	0.015		1.4	0.010		1.4	0.018
	1.7	0.022		1.7	0.022		1.7	0.014		1.7	0.014		1.5	0.010		1.5	0.018
	1.8	0.021		1.8	0.020		1.8	0.014		1.8	0.014		1.6	0.010		1.6	0.017
	1.9	0.019		1.9	0.019		1.9	0.013		1.9	0.013		1.7	0.010		1.7	0.016
	2.0	0.018		2.0	0.018		2.0	0.013		2.0	0.013		1.8	0.010		1.8	0.015
	2.1	0.017		2.1	0.017		2.1	0.012		2.1	0.012		1.9	0.010		1.9	0.015
	2.2	0.016		2.2	0.016		2.2	0.012		2.2	0.012		2.0	0.010		2.0	0.014
	2.3	0.015		2.3	0.014		2.3	0.011		2.3	0.011		2.1	0.009		2.1	0.014
	2.4	0.014		2.4	0.014		2.4	0.010		2.4	0.010		2.2	0.008		2.2	0.012
	2.5	0.011		2.5	0.011		2.5	0.008		2.5	0.008		2.3	0.008		2.3	0.011
	2.6	0.010		2.6	0.010		2.6	0.007		2.6	0.007		2.4	0.007		2.4	0.010
	2.7	0.008		2.7	0.008		2.7	0.005		2.7	0.005		2.5	0.007		2.5	0.009
	2.8	0.008		2.8	0.007		2.8	0.005		2.8	0.005		2.6	0.006		2.6	0.008
	2.9	0.007		2.9	0.007		2.9	0.004		2.9	0.004		2.7	0.005		2.7	0.008
	3.0	0.006		3.0	0.006		3.0	0.003		3.0	0.003		2.8	0.004		2.8	0.006
	3.1	0.006		3.1	0.006		3.1	0.003		3.1	0.003		2.9	0.004		2.9	0.005
	3.2	0.004		3.2	0.004		3.2	0.002		3.2	0.002		3.0	0.002		3.0	0.004
	3.3	0.003		3.3	0.003		3.3	0.001		3.3	0.001		3.1	0.002		3.1	0.003
	0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.2	0.002		3.2	0.002
	0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002
21	0.4	0.054	22	0.4	0.012	23	0.5	0.029	24	0.5	0.037	25	0.5	0.031	26	0.5	0.039
	0.5	0.032		0.5	0.008		0.6	0.014		0.6	0.015		0.6	0.014		0.6	0.016
	0.6	0.029		0.6	0.009		0.7	0.013		0.7	0.014		0.7	0.013		0.7	0.015
	0.7	0.027		0.7	0.009		0.8	0.012		0.8	0.013		0.8	0.013		0.8	0.014
	0.8	0.025		0.8	0.009		0.9	0.012		0.9	0.013		0.9	0.012		0.9	0.014
	0.9	0.023		0.9	0.009		1.0	0.012		1.0	0.013		1.0	0.012		1.0	0.013
	1.0	0.022		1.0	0.009		1.1	0.012		1.1	0.013		1.1	0.012		1.1	0.013
	1.1	0.021		1.1	0.009		1.2	0.012		1.2	0.013		1.2	0.012		1.2	0.013
	1.2	0.020		1.2	0.010		1.3	0.012		1.3	0.013		1.3	0.012		1.3	0.013











	<b>PROGETTISTA</b> 			<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>			<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>			<b>Fg. 63 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 7																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
	1.2	0.017		2.4	0.007		2.3	0.009		2.4	0.008		1.4	0.042		1.4	0.036
	1.3	0.017		2.5	0.006		2.4	0.008		2.5	0.006		1.5	0.039		1.5	0.034
	1.4	0.016		2.6	0.006		2.5	0.007		2.6	0.006		1.6	0.035		1.6	0.031
	1.5	0.016		2.7	0.005		2.6	0.006		2.7	0.005		1.7	0.033		1.7	0.029
	1.6	0.016		2.8	0.004		2.7	0.006		2.8	0.004		1.8	0.030		1.8	0.027
	1.7	0.015		2.9	0.003		2.8	0.005		2.9	0.003		1.9	0.028		1.9	0.025
	1.8	0.015		3.0	0.002		2.9	0.003		3.0	0.002		2.0	0.026		2.0	0.024
	1.9	0.014		3.1	0.001		3.0	0.002		3.1	0.001		2.1	0.024		2.1	0.022
	2.0	0.014		3.2	0.001		3.1	0.001		3.2	0.001		2.2	0.022		2.2	0.020
	2.1	0.013		3.3	0.001		3.2	0.001		3.3	0.001		2.3	0.020		2.3	0.018
	2.2	0.012		2.2	0.018		3.3	0.000		2.2	0.018		2.4	0.018		2.4	0.017
	2.3	0.011		2.3	0.016		2.3	0.018		2.3	0.016		2.5	0.016		2.5	0.015
	2.4	0.010		2.4	0.015		2.4	0.017		2.4	0.015		2.6	0.015		2.6	0.014
	2.5	0.008		2.5	0.013		2.5	0.015		2.5	0.013		2.7	0.013		2.7	0.013
	2.6	0.007		2.6	0.012		2.6	0.014		2.6	0.012		2.8	0.012		2.8	0.012
	2.7	0.006		2.7	0.011		2.7	0.013		2.7	0.011		2.9	0.011		2.9	0.010
	2.8	0.005		2.8	0.010		2.8	0.011		2.8	0.010		3.0	0.011		3.0	0.009
	2.9	0.004		2.9	0.008		2.9	0.010		2.9	0.008		3.1	0.010		3.1	0.008
	3.0	0.004		3.0	0.008		3.0	0.009		3.0	0.008		3.2	0.008		3.2	0.006
	3.1	0.003		3.1	0.006		3.1	0.007		3.1	0.006		3.3	0.006		3.3	0.004
	3.2	0.002		3.2	0.005		3.2	0.005		3.2	0.005		3.2	0.004		3.2	0.003
	3.3	0.001		3.3	0.004		3.3	0.004		3.3	0.003		3.3	0.003		3.3	0.002
	3.3	0.003		0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.003
45	0.7	0.050	46	0.7	0.121	47	0.7	0.088	48	0.7	0.052	49	0.7	0.118	50	0.7	0.087
	0.8	0.032		0.8	0.074		0.8	0.057		0.8	0.034		0.8	0.071		0.8	0.054
	0.9	0.031		0.9	0.068		0.9	0.053		0.9	0.033		0.9	0.065		0.9	0.051
	1.0	0.030		1.0	0.063		1.0	0.050		1.0	0.032		1.0	0.060		1.0	0.048
	1.1	0.029		1.1	0.058		1.1	0.048		1.1	0.031		1.1	0.055		1.1	0.045
	1.2	0.028		1.2	0.054		1.2	0.045		1.2	0.030		1.2	0.050		1.2	0.042
	1.3	0.027		1.3	0.049		1.3	0.042		1.3	0.029		1.3	0.046		1.3	0.039
	1.4	0.025		1.4	0.045		1.4	0.039		1.4	0.027		1.4	0.042		1.4	0.036
	1.5	0.024		1.5	0.041		1.5	0.036		1.5	0.026		1.5	0.039		1.5	0.034
	1.6	0.023		1.6	0.038		1.6	0.034		1.6	0.025		1.6	0.036		1.6	0.031
	1.7	0.022		1.7	0.035		1.7	0.031		1.7	0.023		1.7	0.033		1.7	0.029
	1.8	0.021		1.8	0.032		1.8	0.029		1.8	0.022		1.8	0.030		1.8	0.027
	1.9	0.020		1.9	0.030		1.9	0.027		1.9	0.021		1.9	0.028		1.9	0.025
	2.0	0.019		2.0	0.027		2.0	0.025		2.0	0.020		2.0	0.026		2.0	0.024
	2.1	0.018		2.1	0.025		2.1	0.023		2.1	0.019		2.1	0.024		2.1	0.022
	2.2	0.016		2.2	0.023		2.2	0.022		2.2	0.018		2.2	0.022		2.2	0.020
	2.3	0.014		2.3	0.022		2.3	0.020		2.3	0.015		2.3	0.020		2.3	0.018
	2.4	0.013		2.4	0.020		2.4	0.019		2.4	0.014		2.4	0.018		2.4	0.017
	2.5	0.011		2.5	0.018		2.5	0.017		2.5	0.011		2.5	0.016		2.5	0.015
	2.6	0.010		2.6	0.017		2.6	0.016		2.6	0.011		2.6	0.015		2.6	0.014
	2.7	0.008		2.7	0.016		2.7	0.015		2.7	0.009		2.7	0.013		2.7	0.013
	2.8	0.007		2.8	0.015		2.8	0.014		2.8	0.009		2.8	0.012		2.8	0.012
	2.9	0.006		2.9	0.013		2.9	0.011		2.9	0.007		2.9	0.011		2.9	0.010
	3.0	0.006		3.0	0.012		3.0	0.010		3.0	0.007		3.0	0.011		3.0	0.009
	3.1	0.005		3.1	0.011		3.1	0.009		3.1	0.006		3.1	0.010		3.1	0.008
	3.2	0.004		3.2	0.008		3.2	0.006		3.2	0.004		3.2	0.008		3.2	0.006
	3.3	0.002		3.3	0.006		3.3	0.004		3.3	0.002		3.3	0.006		3.3	0.004
	3.2	0.002		3.2	0.005		3.2	0.005		3.2	0.005		3.2	0.004		3.2	0.003
	3.3	0.001		3.3	0.004		3.3	0.004		3.3	0.003		3.3	0.003		3.3	0.002
	3.3	0.003		0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.003
51	0.7	0.051															
	0.8	0.033															
	0.9	0.031															
	1.0	0.030															
	1.1	0.029															
	1.2	0.028															
	1.3	0.027															
	1.4	0.026															
	1.5	0.024															
	1.6	0.023															
	1.7	0.022															
	1.8	0.021															
	1.9	0.020															
	2.0	0.019															
	2.1	0.018															
	2.2	0.016															
	2.3	0.014															
	2.4	0.013															
	2.5	0.011															
	2.6	0.010															
	2.7	0.008															
	2.8	0.008															
	2.9	0.006															





	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 66 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 8																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
2.4	0.010		2.4	0.009		2.4	0.010		2.4	0.009		2.6	0.014		2.6	0.014	
2.5	0.009		2.5	0.008		2.5	0.008		2.5	0.008		2.7	0.012		2.7	0.013	
2.6	0.008		2.6	0.007		2.6	0.008		2.6	0.007		2.8	0.011		2.8	0.012	
2.7	0.007		2.7	0.007		2.7	0.007		2.7	0.007		2.9	0.010		2.9	0.010	
2.8	0.006		2.8	0.005		2.8	0.006		2.8	0.005		3.0	0.010		3.0	0.009	
2.9	0.005		2.9	0.004		2.9	0.004		2.9	0.004		3.1	0.009		3.1	0.008	
3.0	0.004		3.0	0.003		3.0	0.004		3.0	0.004		3.2	0.007		3.2	0.006	
3.1	0.003		3.1	0.002		3.1	0.002		3.1	0.002		3.3	0.005		3.3	0.004	
3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.004		3.2	0.003	
3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.002		3.3	0.002	
3.3	0.002		3.3	0.001		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002	
45	0.7	0.064	46	0.7	0.107	47	0.7	0.088	48	0.7	0.066	49	0.7	0.105	50	0.7	0.087
	0.8	0.040		0.8	0.066		0.8	0.057		0.8	0.042		0.8	0.063		0.8	0.054
	0.9	0.038		0.9	0.061		0.9	0.053		0.9	0.040		0.9	0.058		0.9	0.051
	1.0	0.036		1.0	0.057		1.0	0.050		1.0	0.038		1.0	0.054		1.0	0.048
	1.1	0.034		1.1	0.053		1.1	0.047		1.1	0.036		1.1	0.050		1.1	0.045
	1.2	0.032		1.2	0.049		1.2	0.045		1.2	0.034		1.2	0.046		1.2	0.042
	1.3	0.030		1.3	0.045		1.3	0.042		1.3	0.033		1.3	0.042		1.3	0.039
	1.4	0.029		1.4	0.042		1.4	0.039		1.4	0.031		1.4	0.039		1.4	0.036
	1.5	0.027		1.5	0.038		1.5	0.036		1.5	0.029		1.5	0.036		1.5	0.034
	1.6	0.025		1.6	0.035		1.6	0.033		1.6	0.027		1.6	0.033		1.6	0.031
	1.7	0.024		1.7	0.033		1.7	0.031		1.7	0.026		1.7	0.031		1.7	0.029
	1.8	0.023		1.8	0.030		1.8	0.029		1.8	0.024		1.8	0.028		1.8	0.027
	1.9	0.021		1.9	0.028		1.9	0.027		1.9	0.023		1.9	0.026		1.9	0.025
	2.0	0.020		2.0	0.026		2.0	0.025		2.0	0.021		2.0	0.024		2.0	0.024
	2.1	0.019		2.1	0.024		2.1	0.023		2.1	0.020		2.1	0.022		2.1	0.022
	2.2	0.017		2.2	0.022		2.2	0.022		2.2	0.019		2.2	0.021		2.2	0.020
	2.3	0.015		2.3	0.020		2.3	0.020		2.3	0.016		2.3	0.019		2.3	0.018
	2.4	0.014		2.4	0.019		2.4	0.019		2.4	0.015		2.4	0.017		2.4	0.017
	2.5	0.012		2.5	0.017		2.5	0.017		2.5	0.013		2.5	0.015		2.5	0.015
	2.6	0.011		2.6	0.016		2.6	0.016		2.6	0.012		2.6	0.014		2.6	0.014
	2.7	0.009		2.7	0.015		2.7	0.015		2.7	0.011		2.7	0.012		2.7	0.013
	2.8	0.008		2.8	0.014		2.8	0.014		2.8	0.010		2.8	0.011		2.8	0.012
	2.9	0.007		2.9	0.012		2.9	0.011		2.9	0.008		2.9	0.010		2.9	0.010
	3.0	0.007		3.0	0.011		3.0	0.010		3.0	0.008		3.0	0.010		3.0	0.009
	3.1	0.006		3.1	0.010		3.1	0.009		3.1	0.007		3.1	0.009		3.1	0.008
	3.2	0.004		3.2	0.007		3.2	0.006		3.2	0.005		3.2	0.007		3.2	0.006
	3.3	0.003		3.3	0.005		3.3	0.004		3.3	0.003		3.3	0.005		3.3	0.004
	3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.002		3.2	0.004		3.2	0.003
	3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.001		3.3	0.002		3.3	0.002
	3.3	0.002		3.3	0.001		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002
51	0.7	0.065															
	0.8	0.040															
	0.9	0.038															
	1.0	0.036															
	1.1	0.034															
	1.2	0.032															
	1.3	0.031															
	1.4	0.029															
	1.5	0.027															
	1.6	0.026															
	1.7	0.024															
	1.8	0.023															
	1.9	0.021															
	2.0	0.020															
	2.1	0.019															
	2.2	0.017															
	2.3	0.015															
	2.4	0.014															
	2.5	0.012															
	2.6	0.011															
	2.7	0.009															
	2.8	0.009															
	2.9	0.007															
	3.0	0.007															
	3.1	0.006															
	3.2	0.004															
	3.3	0.003															
	3.2	0.002															
	3.3	0.001															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 1																	
Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.	Filo	Quota	Tens.





	<b>PROGETTISTA</b> 			<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA			<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar			Fg. 69 di 81	<b>Rev.</b> 0

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 1																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
1.0	0.044		1.0	0.048		1.0	0.050		1.0	0.047		1.0	0.045		1.0	0.048	
1.1	0.042		1.1	0.045		1.1	0.048		1.1	0.044		1.1	0.042		1.1	0.045	
1.2	0.039		1.2	0.042		1.2	0.045		1.2	0.042		1.2	0.039		1.2	0.042	
1.3	0.036		1.3	0.039		1.3	0.042		1.3	0.039		1.3	0.036		1.3	0.039	
1.4	0.034		1.4	0.036		1.4	0.039		1.4	0.036		1.4	0.034		1.4	0.036	
1.5	0.031		1.5	0.034		1.5	0.036		1.5	0.034		1.5	0.032		1.5	0.034	
1.6	0.029		1.6	0.031		1.6	0.033		1.6	0.031		1.6	0.029		1.6	0.031	
1.7	0.027		1.7	0.029		1.7	0.031		1.7	0.029		1.7	0.027		1.7	0.029	
1.8	0.025		1.8	0.027		1.8	0.029		1.8	0.027		1.8	0.026		1.8	0.027	
1.9	0.024		1.9	0.025		1.9	0.027		1.9	0.025		1.9	0.024		1.9	0.025	
2.0	0.022		2.0	0.024		2.0	0.025		2.0	0.024		2.0	0.022		2.0	0.024	
2.1	0.021		2.1	0.022		2.1	0.023		2.1	0.022		2.1	0.021		2.1	0.022	
2.2	0.019		2.2	0.020		2.2	0.022		2.2	0.020		2.2	0.019		2.2	0.020	
2.3	0.017		2.3	0.018		2.3	0.020		2.3	0.018		2.3	0.017		2.3	0.018	
2.4	0.016		2.4	0.017		2.4	0.019		2.4	0.017		2.4	0.016		2.4	0.017	
2.5	0.013		2.5	0.015		2.5	0.017		2.5	0.015		2.5	0.013		2.5	0.015	
2.6	0.012		2.6	0.014		2.6	0.016		2.6	0.014		2.6	0.012		2.6	0.014	
2.7	0.011		2.7	0.013		2.7	0.015		2.7	0.013		2.7	0.011		2.7	0.013	
2.8	0.010		2.8	0.012		2.8	0.014		2.8	0.012		2.8	0.010		2.8	0.012	
2.9	0.009		2.9	0.010		2.9	0.011		2.9	0.010		2.9	0.009		2.9	0.010	
3.0	0.008		3.0	0.009		3.0	0.010		3.0	0.009		3.0	0.008		3.0	0.009	
3.1	0.008		3.1	0.008		3.1	0.009		3.1	0.008		3.1	0.008		3.1	0.008	
3.2	0.006		3.2	0.006		3.2	0.006		3.2	0.006		3.2	0.006		3.2	0.006	
3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004	
3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003	
3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002	
3.3	0.002		3.3	0.002		0.0	0.000		0.0	0.000		3.3	0.002		3.3	0.002	
51	0.7	0.085															
	0.8	0.052															
	0.9	0.048															
	1.0	0.045															
	1.1	0.042															
	1.2	0.039															
	1.3	0.036															
	1.4	0.034															
	1.5	0.032															
	1.6	0.029															
	1.7	0.027															
	1.8	0.025															
	1.9	0.024															
	2.0	0.022															
	2.1	0.021															
	2.2	0.019															
	2.3	0.017															
	2.4	0.016															
	2.5	0.013															
	2.6	0.012															
	2.7	0.011															
	2.8	0.010															
	2.9	0.009															
	3.0	0.008															
	3.1	0.008															
	3.2	0.006															
	3.3	0.004															
	3.2	0.003															
	3.3	0.002															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 2																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.090	16	0.6	0.088	17	0.6	0.063	18	0.6	0.064	19	0.4	0.027	20	0.4	0.041
	0.7	0.044		0.7	0.043		0.7	0.031		0.7	0.032		0.5	0.017		0.5	0.024
	0.8	0.037		0.8	0.037		0.8	0.028		0.8	0.028		0.6	0.016		0.6	0.023
	0.9	0.033		0.9	0.033		0.9	0.025		0.9	0.026		0.7	0.015		0.7	0.021
	1.0	0.030		1.0	0.030		1.0	0.024		1.0	0.024		0.8	0.015		0.8	0.020
	1.1	0.028		1.1	0.028		1.1	0.022		1.1	0.023		0.9	0.014		0.9	0.019
	1.2	0.026		1.2	0.026		1.2	0.021		1.2	0.021		1.0	0.014		1.0	0.018
	1.3	0.025		1.3	0.024		1.3	0.020		1.3	0.020		1.1	0.014		1.1	0.017
	1.4	0.023		1.4	0.023		1.4	0.019		1.4	0.019		1.2	0.013		1.2	0.017
	1.5	0.022		1.5	0.021		1.5	0.018		1.5	0.018		1.3	0.013		1.3	0.016
	1.6	0.020		1.6	0.020		1.6	0.017		1.6	0.018		1.4	0.013		1.4	0.016
	1.7	0.019		1.7	0.019		1.7	0.017		1.7	0.017		1.5	0.013		1.5	0.015
	1.8	0.018		1.8	0.018		1.8	0.016		1.8	0.016		1.6	0.012		1.6	0.015
	1.9	0.017		1.9	0.017		1.9	0.015		1.9	0.015		1.7	0.012		1.7	0.014
	2.0	0.016		2.0	0.016		2.0	0.015		2.0	0.015		1.8	0.012		1.8	0.014







	<b>PROGETTISTA</b> 	<b>COMMESSA</b> NR/13167	<b>COD. TECNICO</b> 16153
	<b>LOCALITA'</b> REGIONE PUGLIA	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> METANODOTTO: INTERCONNESSIONE TAP DN 1400 (56") DP 75 bar	Fg. 72 di 81	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 2																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
2.3	0.016		2.3	0.019		2.3	0.020		2.3	0.018		2.3	0.017		2.3	0.018	
2.4	0.015		2.4	0.018		2.4	0.019		2.4	0.016		2.4	0.016		2.4	0.017	
2.5	0.013		2.5	0.016		2.5	0.017		2.5	0.014		2.5	0.014		2.5	0.015	
2.6	0.012		2.6	0.015		2.6	0.016		2.6	0.013		2.6	0.013		2.6	0.014	
2.7	0.010		2.7	0.013		2.7	0.015		2.7	0.012		2.7	0.011		2.7	0.013	
2.8	0.009		2.8	0.012		2.8	0.014		2.8	0.011		2.8	0.010		2.8	0.012	
2.9	0.008		2.9	0.011		2.9	0.011		2.9	0.009		2.9	0.009		2.9	0.010	
3.0	0.008		3.0	0.010		3.0	0.010		3.0	0.009		3.0	0.009		3.0	0.009	
3.1	0.007		3.1	0.009		3.1	0.009		3.1	0.008		3.1	0.008		3.1	0.008	
3.2	0.005		3.2	0.006		3.2	0.006		3.2	0.005		3.2	0.006		3.2	0.006	
3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004		3.3	0.004	
3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003	
3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002	
3.3	0.002		3.3	0.001		0.0	0.000		0.0	0.000		3.3	0.001		3.3	0.002	
51	0.7	0.078															
	0.8	0.048															
	0.9	0.045															
	1.0	0.042															
	1.1	0.039															
	1.2	0.037															
	1.3	0.034															
	1.4	0.032															
	1.5	0.030															
	1.6	0.028															
	1.7	0.026															
	1.8	0.025															
	1.9	0.023															
	2.0	0.022															
	2.1	0.020															
	2.2	0.019															
	2.3	0.016															
	2.4	0.015															
	2.5	0.013															
	2.6	0.012															
	2.7	0.010															
	2.8	0.009															
	2.9	0.008															
	3.0	0.008															
	3.1	0.007															
	3.2	0.005															
	3.3	0.004															
	3.2	0.003															
	3.3	0.002															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 3																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.077	16	0.6	0.075	17	0.6	0.075	18	0.6	0.077	19	0.4	0.034	20	0.4	0.034
	0.7	0.038		0.7	0.037		0.7	0.037		0.7	0.038		0.5	0.020		0.5	0.021
	0.8	0.033		0.8	0.032		0.8	0.032		0.8	0.033		0.6	0.020		0.6	0.020
	0.9	0.030		0.9	0.029		0.9	0.029		0.9	0.030		0.7	0.018		0.7	0.018
	1.0	0.027		1.0	0.027		1.0	0.027		1.0	0.027		0.8	0.017		0.8	0.017
	1.1	0.025		1.1	0.025		1.1	0.025		1.1	0.025		0.9	0.016		0.9	0.016
	1.2	0.024		1.2	0.023		1.2	0.023		1.2	0.024		1.0	0.016		1.0	0.016
	1.3	0.022		1.3	0.022		1.3	0.022		1.3	0.022		1.1	0.015		1.1	0.015
	1.4	0.021		1.4	0.021		1.4	0.021		1.4	0.021		1.2	0.015		1.2	0.015
	1.5	0.020		1.5	0.020		1.5	0.020		1.5	0.020		1.3	0.015		1.3	0.015
	1.6	0.019		1.6	0.019		1.6	0.019		1.6	0.019		1.4	0.014		1.4	0.014
	1.7	0.018		1.7	0.018		1.7	0.018		1.7	0.018		1.5	0.014		1.5	0.014
	1.8	0.017		1.8	0.017		1.8	0.017		1.8	0.017		1.6	0.013		1.6	0.013
	1.9	0.016		1.9	0.016		1.9	0.016		1.9	0.016		1.7	0.013		1.7	0.013
	2.0	0.016		2.0	0.015		2.0	0.015		2.0	0.016		1.8	0.013		1.8	0.013
	2.1	0.015		2.1	0.015		2.1	0.015		2.1	0.015		1.9	0.012		1.9	0.012
	2.2	0.014		2.2	0.014		2.2	0.014		2.2	0.014		2.0	0.012		2.0	0.012
	2.3	0.013		2.3	0.013		2.3	0.013		2.3	0.013		2.1	0.012		2.1	0.012
	2.4	0.012		2.4	0.012		2.4	0.012		2.4	0.012		2.2	0.010		2.2	0.010
	2.5	0.010		2.5	0.009		2.5	0.009		2.5	0.009		2.3	0.009		2.3	0.009
	2.6	0.009		2.6	0.009		2.6	0.009		2.6	0.009		2.4	0.008		2.4	0.008
	2.7	0.007		2.7	0.007		2.7	0.007		2.7	0.007		2.5	0.008		2.5	0.008
	2.8	0.006		2.8	0.006		2.8	0.006		2.8	0.006		2.6	0.007		2.6	0.007
	2.9	0.005		2.9	0.005		2.9	0.005		2.9	0.005		2.7	0.006		2.7	0.006
	3.0	0.005		3.0	0.005		3.0	0.005		3.0	0.005		2.8	0.005		2.8	0.005
	3.1	0.004		3.1	0.004		3.1	0.004		3.1	0.004		2.9	0.004		2.9	0.004
	3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.0	0.003		3.0	0.003
	3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.1	0.003		3.1	0.003





	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 75 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 3																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
	3.3	0.002		3.3	0.002		0.0	0.000		0.0	0.000		3.3	0.002		3.3	0.002
51	0.7	0.085															
	0.8	0.052															
	0.9	0.048															
	1.0	0.045															
	1.1	0.042															
	1.2	0.039															
	1.3	0.036															
	1.4	0.034															
	1.5	0.032															
	1.6	0.029															
	1.7	0.027															
	1.8	0.025															
	1.9	0.024															
	2.0	0.022															
	2.1	0.021															
	2.2	0.019															
	2.3	0.017															
	2.4	0.016															
	2.5	0.013															
	2.6	0.012															
	2.7	0.011															
	2.8	0.010															
	2.9	0.009															
	3.0	0.008															
	3.1	0.008															
	3.2	0.006															
	3.3	0.004															
	3.2	0.003															
	3.3	0.002															
	3.3	0.002															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 4																	
Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>	Filo N.ro	Quota m	Tens. N/mm <sup>2</sup>
15	0.6	0.077	16	0.6	0.075	17	0.6	0.075	18	0.6	0.077	19	0.4	0.034	20	0.4	0.034
	0.7	0.038		0.7	0.037		0.7	0.037		0.7	0.038		0.5	0.020		0.5	0.021
	0.8	0.033		0.8	0.032		0.8	0.032		0.8	0.033		0.6	0.020		0.6	0.020
	0.9	0.030		0.9	0.029		0.9	0.029		0.9	0.030		0.7	0.018		0.7	0.018
	1.0	0.027		1.0	0.027		1.0	0.027		1.0	0.027		0.8	0.017		0.8	0.017
	1.1	0.025		1.1	0.025		1.1	0.025		1.1	0.025		0.9	0.016		0.9	0.016
	1.2	0.024		1.2	0.023		1.2	0.023		1.2	0.024		1.0	0.016		1.0	0.016
	1.3	0.022		1.3	0.022		1.3	0.022		1.3	0.022		1.1	0.015		1.1	0.015
	1.4	0.021		1.4	0.021		1.4	0.021		1.4	0.021		1.2	0.015		1.2	0.015
	1.5	0.020		1.5	0.020		1.5	0.020		1.5	0.020		1.3	0.015		1.3	0.015
	1.6	0.019		1.6	0.019		1.6	0.019		1.6	0.019		1.4	0.014		1.4	0.014
	1.7	0.018		1.7	0.018		1.7	0.018		1.7	0.018		1.5	0.014		1.5	0.014
	1.8	0.017		1.8	0.017		1.8	0.017		1.8	0.017		1.6	0.013		1.6	0.013
	1.9	0.016		1.9	0.016		1.9	0.016		1.9	0.016		1.7	0.013		1.7	0.013
	2.0	0.016		2.0	0.015		2.0	0.015		2.0	0.016		1.8	0.013		1.8	0.013
	2.1	0.015		2.1	0.015		2.1	0.015		2.1	0.015		1.9	0.012		1.9	0.012
	2.2	0.014		2.2	0.014		2.2	0.014		2.2	0.014		2.0	0.012		2.0	0.012
	2.3	0.013		2.3	0.013		2.3	0.013		2.3	0.013		2.1	0.012		2.1	0.012
	2.4	0.012		2.4	0.012		2.4	0.012		2.4	0.012		2.2	0.010		2.2	0.010
	2.5	0.010		2.5	0.009		2.5	0.009		2.5	0.009		2.3	0.009		2.3	0.009
	2.6	0.009		2.6	0.009		2.6	0.009		2.6	0.009		2.4	0.008		2.4	0.008
	2.7	0.007		2.7	0.007		2.7	0.007		2.7	0.007		2.5	0.008		2.5	0.008
	2.8	0.006		2.8	0.006		2.8	0.006		2.8	0.006		2.6	0.007		2.6	0.007
	2.9	0.005		2.9	0.005		2.9	0.005		2.9	0.005		2.7	0.006		2.7	0.006
	3.0	0.005		3.0	0.005		3.0	0.005		3.0	0.005		2.8	0.005		2.8	0.005
	3.1	0.004		3.1	0.004		3.1	0.004		3.1	0.004		2.9	0.004		2.9	0.004
	3.2	0.003		3.2	0.003		3.2	0.003		3.2	0.003		3.0	0.003		3.0	0.003
	3.3	0.002		3.3	0.002		3.3	0.002		3.3	0.002		3.1	0.003		3.1	0.003
	0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.2	0.002		3.2	0.002
	0.0	0.000		0.0	0.000		0.0	0.000		0.0	0.000		3.3	0.002		3.3	0.002
21	0.4	0.033	22	0.4	0.033	23	0.5	0.075	24	0.5	0.075	25	0.5	0.077	26	0.5	0.077
	0.5	0.020		0.5	0.020		0.6	0.030		0.6	0.030		0.6	0.030		0.6	0.030
	0.6	0.019		0.6	0.019		0.7	0.026		0.7	0.026		0.7	0.026		0.7	0.026
	0.7	0.018		0.7	0.018		0.8	0.023		0.8	0.023		0.8	0.024		0.8	0.024
	0.8	0.017		0.8	0.017		0.9	0.022		0.9	0.022		0.9	0.022		0.9	0.022
	0.9	0.016		0.9	0.016		1.0	0.020		1.0	0.020		1.0	0.021		1.0	0.021
	1.0	0.016		1.0	0.016		1.1	0.019		1.1	0.019		1.1	0.020		1.1	0.020
	1.1	0.015		1.1	0.015		1.2	0.019		1.2	0.019		1.2	0.019		1.2	0.019
	1.2	0.015		1.2	0.015		1.3	0.018		1.3	0.018		1.3	0.018		1.3	0.018













 <b>SNAM RETE GAS</b>	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>NR/13167</b>	<b>COD. TECNICO</b> <b>16153</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>RE-GFN-111</b>	
	<b>PROGETTO/IMPIANTO</b> <b>METANODOTTO: INTERCONNESSIONE TAP</b> <b>DN 1400 (56") DP 75 bar</b>	<b>Fg. 81 di 81</b>	<b>Rev.</b> <b>0</b>

Rif. TFM: 011014-50-RC-C-2053

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Perm 1																	
Filo N.ro	Quota m	Tens. N/mmq	Filo N.ro	Quota m	Tens. N/mmq	Filo N.ro	Quota m	Tens. N/mmq	Filo N.ro	Quota m	Tens. N/mmq	Filo N.ro	Quota m	Tens. N/mmq	Filo N.ro	Quota m	Tens. N/mmq
	3.0	0.008															
	3.1	0.008															
	3.2	0.006															
	3.3	0.004															
	3.2	0.003															
	3.3	0.002															
	3.3	0.002															