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**GASDOTTI LUCERA – SAN PAOLO DI CIVITATE**  
**DN 300 (12"), DP 75 bar**  
**E OPERE CONNESSE:**

**Tratto Lucera-Foggia (TRATTO 1)**  
**DN 300 (12"), DP 75 bar**

**Tratto Foggia-San Severo (TRATTO 2)**  
**DN 300 (12"), DP 75 bar**

**Tratto San Severo-Apricena (TRATTO 3)**  
**DN 300 (12"), DP 75 bar**

**Tratto Apricena-San Paolo di Civitate (TRATTO 4)**  
**DN 300 (12"), DP 75 bar**

**Bretella in Comune di Foggia (Bretella 1)**  
**DN 100 (4"), DP 75 bar**

**Bretella in Comune di San Severo (Bretella 2)**  
**DN 100 (4"), DP 75 bar**

**Bretella in Comune di Apricena (Bretella 3)**  
**DN 100 (4"), DP 75 bar**

**ANNESSO 3 – RELAZIONE DI CALCOLO SEZIONE VERIFICA DI STABILITÀ**

0	Emissione per Enti	A. Tiesi	G. Vecchio	H.D. Aiudi	23/12/2022
<b>Rev.</b>	<b>Descrizione</b>	<b>Elaborato</b>	<b>Verificato</b>	<b>Approvato</b>	<b>Data</b>

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## Relazione di calcolo

### Definizione

Per pendio s'intende una porzione di versante naturale il cui profilo originario è stato modificato da interventi artificiali rilevanti rispetto alla stabilità. Per frana s'intende una situazione di instabilità che interessa versanti naturali e coinvolgono volumi considerevoli di terreno.

### Introduzione all'analisi di stabilità

La risoluzione di un problema di stabilità richiede la presa in conto delle equazioni di campo e dei legami costitutivi. Le prime sono di equilibrio, le seconde descrivono il comportamento del terreno. Tali equazioni risultano particolarmente complesse in quanto i terreni sono dei sistemi multifase, che possono essere ricondotti a sistemi monofase solo in condizioni di terreno secco, o di analisi in condizioni drenate.

Nella maggior parte dei casi ci si trova a dover trattare un materiale che se saturo è per lo meno bifase, ciò rende la trattazione delle equazioni di equilibrio notevolmente complicata. Inoltre è praticamente impossibile definire una legge costitutiva di validità generale, in quanto i terreni presentano un comportamento non-lineare già a piccole deformazioni, sono anisotropi ed inoltre il loro comportamento dipende non solo dallo sforzo deviatorico ma anche da quello normale. A causa delle suddette difficoltà vengono introdotte delle ipotesi semplificative:

1. Si usano leggi costitutive semplificate: modello rigido perfettamente plastico. Si assume che la resistenza del materiale sia espressa unicamente dai parametri coesione (c) e angolo di resistenza al taglio (j), costanti per il terreno e caratteristici dello stato plastico; quindi si suppone valido il criterio di rottura di Mohr-Coulomb.
2. In alcuni casi vengono soddisfatte solo in parte le equazioni di equilibrio.

### Metodo equilibrio limite (LEM)

Il metodo dell'equilibrio limite consiste nello studiare l'equilibrio di un corpo rigido, costituito dal pendio e da una superficie di scorrimento di forma qualsiasi (linea retta, arco di cerchio, spirale logaritmica); da tale equilibrio vengono calcolate le tensioni da taglio (t) e confrontate con la

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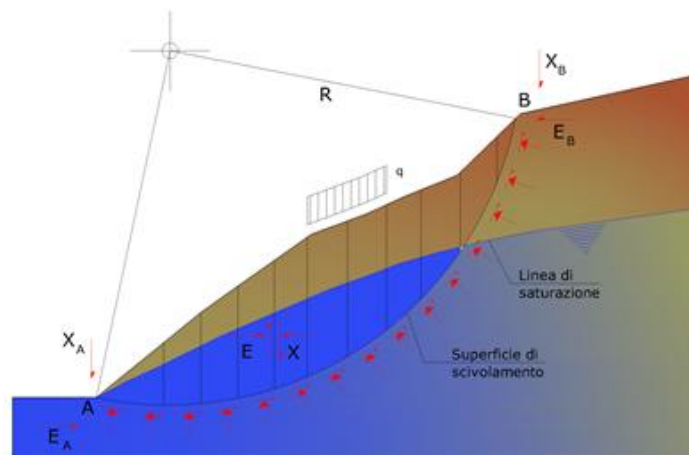
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resistenza disponibile ( $\tau_f$ ), valutata secondo il criterio di rottura di Coulomb, da tale confronto ne scaturisce la prima indicazione sulla stabilità attraverso il coefficiente di sicurezza:

$$F = \tau_f / \tau$$

Tra i metodi dell'equilibrio limite alcuni considerano l'equilibrio globale del corpo rigido (Culman), altri a causa della non omogeneità dividono il corpo in conci considerando l'equilibrio di ciascuno (Fellenius, Bishop, Janbu ecc.).

Di seguito vengono discussi i metodi dell'equilibrio limite dei conci.



### Metodo dei conci

La massa interessata dallo scivolamento viene suddivisa in un numero conveniente di conci. Se il numero dei conci è pari a  $n$ , il problema presenta le seguenti incognite:

- $n$  valori delle forze normali  $N_j$  agenti sulla base di ciascun concio;
- $n$  valori delle forze di taglio alla base del concio  $T_j$ ;

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- (n-1) forze normali  $E_i$  agenti sull'interfaccia dei conci;
- (n-1) forze tangenziali  $X_i$  agenti sull'interfaccia dei conci;
- n valori della coordinata a che individua il punto di applicazione delle  $E_i$ ;
- (n-1) valori della coordinata che individua il punto di applicazione delle  $X_i$ ;
- una incognita costituita dal fattore di sicurezza F.

Complessivamente le incognite sono (6n-2).

Mentre le equazioni a disposizione sono:

- equazioni di equilibrio dei momenti n;
- equazioni di equilibrio alla traslazione verticale n;
- equazioni di equilibrio alla traslazione orizzontale n;
- equazioni relative al criterio di rottura n.

Totale numero di equazioni 4n.

Il problema è staticamente indeterminato ed il grado di indeterminazione è pari a :

$$i = (6n - 2) - (4n) = 2n - 2$$

Il grado di indeterminazione si riduce ulteriormente a (n-2) in quanto si fa l'assunzione che  $N_i$  sia applicato nel punto medio della striscia. Ciò equivale ad ipotizzare che le tensioni normali totali siano uniformemente distribuite.

I diversi metodi che si basano sulla teoria dell'equilibrio limite si differenziano per il modo in cui vengono eliminate le (n-2) indeterminazioni.

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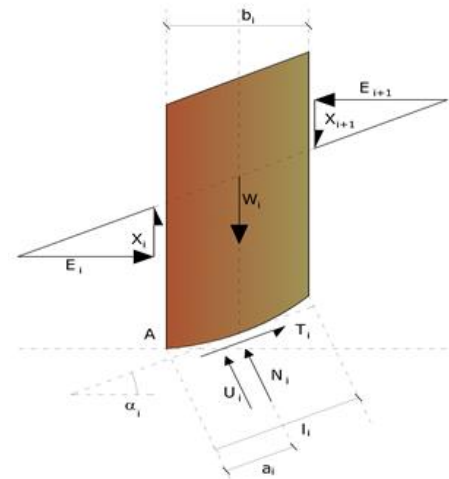
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### Metodo di Bishop (1955)

Con tale metodo non viene trascurato nessun contributo di forze agenti sui blocchi e fu il primo a descrivere i problemi legati ai metodi convenzionali. Le equazioni usate per risolvere il problema sono:

$$\sum F_y = 0, \quad \sum M_0 = 0 \quad \text{Criterio di rottura}$$

$$F = \frac{\sum \{c_i \times b_i + (W_i - u_i \times b_i + \Delta X_i) \times \tan \varphi_i\} \times \frac{\sec \alpha_i}{1 + \tan \alpha_i \times \tan \varphi_i / F}}{\sum W_i \times \sin \alpha_i}$$



I valori di F e di DX per ogni elemento che soddisfano questa equazione danno una soluzione rigorosa al problema. Come prima approssimazione conviene porre  $DX = 0$  ed iterare per il calcolo del fattore di sicurezza, tale procedimento è noto come metodo di Bishop ordinario, gli errori commessi rispetto al metodo completo sono di circa 1 %.

### Valutazione dell'azione sismica

La stabilità dei pendii nei confronti dell'azione sismica viene verificata con il metodo pseudo-statico. Per i terreni che sotto l'azione di un carico ciclico possono sviluppare pressioni interstiziali elevate viene considerato un aumento in percento delle pressioni neutre che tiene conto di questo fattore di perdita di resistenza.

Ai fini della valutazione dell'azione sismica vengono considerate le seguenti forze:

$$F_H = K_x W$$

$$F_V = K_y W$$

Essendo:

- $F_H$  e  $F_V$  rispettivamente la componente orizzontale e verticale della forza d'inerzia applicata al baricentro del concio;

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- W peso concio;
- $K_x$  coefficiente sismico orizzontale;
- $K_y$  coefficiente sismico verticale.

Ricerca della superficie di scorrimento critica

In presenza di mezzi omogenei non si hanno a disposizione metodi per individuare la superficie di scorrimento critica ed occorre esaminarne un numero elevato di potenziali superfici.

Nel caso vengano ipotizzate superfici di forma circolare, la ricerca diventa più semplice, in quanto dopo aver posizionato una maglia dei centri costituita da m righe e n colonne saranno esaminate tutte le superfici aventi per centro il generico nodo della maglia  $m \times n$  e raggio variabile in un determinato range di valori tale da esaminare superfici cinematicamente ammissibili.

Analisi di stabilità dei pendii con: BISHOP (1955)

Lat./Long.	41.743267/15.232521 °
Calcolo eseguito secondo	NTC 2018
Numero di strati	3.0
Numero dei conci	10.0
Grado di sicurezza ritenuto accettabile	1.3
Coefficiente parziale resistenza	1.0
Analisi	Condizione drenata
Superficie di forma circolare	

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### Maglia dei Centri

Ascissa vertice sinistro inferiore xi	395.15 m
Ordinata vertice sinistro inferiore yi	321.13 m
Ascissa vertice destro superiore xs	768.31 m
Ordinata vertice destro superiore ys	592.04 m
Passo di ricerca	10.0
Numero di celle lungo x	10.0
Numero di celle lungo y	10.0

### Coefficienti sismici [N.T.C.]

#### Dati generali

Tipo opera:	2 - Opere ordinarie
Classe d'uso:	Classe IV
Vita nominale:	50.0 [anni]
Vita di riferimento:	100.0 [anni]

#### Parametri sismici su sito di riferimento

Categoria sottosuolo:	C
Categoria topografica:	T2

S.L. Stato limite	TR Tempo ritorno [anni]	ag [m/s <sup>2</sup> ]	F0 [-]	TC* [sec]
S.L.O.	60.0	0.814	2.491	0.295
S.L.D.	101.0	1.04	2.506	0.299
S.L.V.	949.0	2.648	2.437	0.344
S.L.C.	1950.0	3.442	2.43	0.356

### Coefficienti sismici orizzontali e verticali

Opera: Stabilità dei pendii e Fondazioni

S.L. Stato limite	amax [m/s <sup>2</sup> ]	beta [-]	kh [-]	kv [sec]
S.L.O.	1.4652	0.2	0.0299	0.0149
S.L.D.	1.872	0.24	0.0458	0.0229
S.L.V.	4.1472	0.28	0.1184	0.0592
S.L.C.	4.9079	0.28	0.1401	0.0701

Coefficiente azione sismica orizzontale	0.046
Coefficiente azione sismica verticale	0.023

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Vertici profilo

Nr	X (m)	y (m)
1	0.0	81.48
2	289.0	94.74
3	434.0	111.22
4	580.0	135.33
5	694.0	164.06
6	835.0	177.33
7	1000.0	169.14

Vertici strato .....1

N	X (m)	y (m)
1	0.0	79.68
2	289.0	91.04
3	434.0	107.92
4	580.0	128.83
5	694.0	161.06
6	835.0	175.12
7	1000.0	159.14

Vertici strato .....2

N	X (m)	y (m)
1	0.0	56.48
2	289.0	60.81
3	434.0	66.51
4	580.0	90.98
5	694.0	118.54
6	835.0	131.97
7	1000.0	124.77

Coefficienti parziali azioni

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Sfavorevoli: Permanenti, variabili                    1.0 1.0

Favorevoli: Permanenti, variabili                    1.0 1.0

=====

Coefficienti parziali per i parametri geotecnici del terreno

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Tangente angolo di resistenza al taglio            1.25

Coesione efficace                                        1.25

Coesione non drenata                                   1.4

Riduzione parametri geotecnici terreno            No

=====



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### Stratigrafia

Strato	Coesione (kg/cm2)	Coesione non drenata (kg/cm2)	Angolo resistenza al taglio (°)	Peso unità di volume (Kg/m3)	Peso saturo (Kg/m3)	Litologia	
1	0.02	1	18	1850	1900	Coltre superficiale limoso-argillosa	
2	0.04	1.1	20	2100	2200	Limo argilloso con sabbia debolmente ghiaiosa	
3	1	2	26	2050	2100	substrato argilloso limoso molto consistente	

G0: Modulo di taglio dinamico a basse deformazioni; G: Modulo di taglio dinamico; Dr: Densità relativa; OCR: Grado di sovraconsolidazione; IP: Indice di plasticità

Strato	G0 (KPa)	G (KPa)	Dr (%)	OCR	IP (%)
1	0	0	0	1	0
2	0	0	0	1	0
3	0	0	0	1	0

### Risultati analisi pendio

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Fs minimo individuato                1.23
Ascissa centro superficie             619.05 m
Ordinata centro superficie            321.13 m
Raggio superficie                     174.26 m
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B: Larghezza del concio; Alfa: Angolo di inclinazione della base del concio; Li: Lunghezza della base del concio; Wi: Peso del concio; Ui: Forze derivanti dalle pressioni neutre; Ni: forze agenti normalmente alla direzione di scivolamento; Ti: forze agenti parallelamente alla superficie di scivolamento; Fi: Angolo di attrito; c: coesione.

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$xc = 395.147$   $yc = 321.131$   $Rc = 230.735$   $Fs=2.159$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.55	-13.8	19.1121187	187.85574	64	2787.32	0.02	18.0	0.0130015	421337.5	
2	18.55	-9.1	18.8349315	116068.49	8034.25	0.04	20.0	20.0	0.0364113	664868.3	
3	18.55	-4.4	18.6517163	423789.52	11894.76	0.04	20.0	20.0	0.0525864	192105.7	
4	18.55	0.2	18.5626333	628811.35	14405.67	0.04	20.0	20.0	0.0626000	6108978.1	
5	18.55	4.8	18.6677354	031158.28	15579.14	0.04	20.0	20.0	0.0669972	3116403.6	
6	10.32	8.4	10.4376562	017321.85	8660.93	0.04	20.0	20.0	0.0371120	764503.4	
7	26.77	13.1	27.5933975	042962.85	21481.43	0.04	20.0	20.0	0.0921595	7160470.6	
8	18.55	19.0	19.6537268	824714.36	12357.18	0.04	20.0	20.0	0.0535805	193968.5	
9	18.55	23.9	20.3371382	917083.61	8541.81	0.04	20.0	20.0	0.0376447	167226.8	
10	18.55	29.1	21.2133891	66159.01	3079.51	0.02	18.0	18.0	0.0140352	223089.9	

$xc = 413.805$   $yc = 334.677$   $Rc = 244.735$   $Fs=2.083$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.62	-14.6	21.3159180	07322.28	3661.14	0.04	20.0	20.0	0.0173448	134404.1	
2	20.62	-9.7	20.9452537	420816.72	10408.36	0.04	20.0	20.0	0.0473802	386819.3	
3	20.62	-4.8	20.7667237	130692.9	15346.45	0.04	20.0	20.0	0.0679836	1122783.0	
4	30.27	1.2	30.3121443	2055863.88	27931.94	0.04	20.0	20.0	0.0121018	80217308.4	
5	10.97	6.0	11.0470607	121647.93	10823.96	0.04	20.0	20.0	0.0464431	083283.6	
6	20.62	9.8	20.9900764	641435.17	20717.59	0.04	20.0	20.0	0.0886648	0158970.2	
7	20.62	14.7	21.3852394	839210.16	19605.08	0.04	20.0	20.0	0.0841594	9151172.6	
8	20.62	19.8	21.9720704	633152.41	16576.21	0.04	20.0	20.0	0.0719166	9129890.8	
9	20.62	25.0	22.8498493	222930.69	11465.34	0.04	20.0	20.0	0.0506705	192922.1	
10	20.62	30.5	23.9179348	58250.03	4125.02	0.02	18.0	18.0	0.0189352	931838.4	

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$$xc = 432.463 \quad yc = 321.131 \quad Rc = 210.061 \quad Fs = 1.806$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	1.32	0.2	1.3	179.55	8.26	4.13	0.02	18.0	0.0	178.8	178.7
2	12.02	2.1	12.02	2405.42	1030.65	515.32	0.02	18.0	0.02	2228.1	5332.6
3	6.67	4.6	6.72	4762.6	1139.08	569.54	0.02	18.0	0.02	4428.5	5137.5
4	6.67	6.4	6.73	3093.09	1398.08	699.04	0.02	18.0	0.02	2989.4	6123.5
5	6.67	8.3	6.73	3356.71	1534.41	767.2	0.02	18.0	0.03	2742.0	6638.9
6	6.67	10.1	6.83	3619.89	1546.52	773.26	0.02	18.0	0.03	2958.6	6681.8
7	6.67	12.0	6.83	1139.71	1432.43	716.21	0.02	18.0	0.03	0507.8	6245.5
8	6.67	13.8	6.92	5864.17	1189.75	594.88	0.02	18.0	0.02	5327.2	5318.9
9	6.67	15.7	6.91	7730.19	815.59	407.79	0.02	18.0	0.01	7325.6	3885.6
10	6.67	17.6	7.06	661.43	306.43	153.21	0.02	18.0	0.06	378.5	1923.3

$$xc = 451.122 \quad yc = 334.677 \quad Rc = 224.152 \quad Fs = 1.883$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.21	-4.4	0.2	7.95	0.37	0.18	0.02	18.0	0.0	9.9	24.3
2	20.9	-1.7	20.98	9762.35	4129.07	2064.53	0.02	18.0	0.09	0333.1	17806.9
3	10.56	2.3	10.69	6957.86	4460.06	2230.03	0.04	20.0	0.09	6194.4	20836.4
4	10.56	5.0	10.61	19990.15	519.54	2759.77	0.04	20.0	0.01	18246.7	25105.4
5	10.56	7.7	10.71	31870.36	066.03	3033.02	0.04	20.0	0.01	29377.1	27268.7
6	10.56	10.5	10.71	32417.56	091.21	3045.6	0.04	20.0	0.01	29608.9	27330.8
7	10.56	13.2	10.81	21369.25	582.99	2791.49	0.04	20.0	0.01	18741.1	25253.5
8	10.56	16.0	11.09	8368.63	4524.96	2262.48	0.04	20.0	0.09	6327.4	20950.8
9	10.56	18.8	11.26	7688.06	3113.65	1556.83	0.02	18.0	0.06	7162.9	12773.0
10	10.56	21.7	11.42	5560.9	1175.8	587.9	0.02	18.0	0.02	5295.4	5571.3

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 12 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 321.131 \quad Rc = 232.585 \quad Fs = 1.919$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.02	-18.8	25.4273315	315.312572.5	6286.25	0.04	20.0	0.0310649	364225.6		
2	27.14	-12.3	27.8879855	440473.3520236.67	0.04	20.0	0.0940504	3184218.5			
3	20.9	-6.3	21.0991670	845616.8622808.43	0.04	20.0	0.01019307	0197761.2			
4	24.02	-0.7	24.01392718	064065.0432032.52	0.04	20.0	0.01396162	0269881.1			
5	24.02	5.2	24.11541925	070928.5735464.29	0.04	20.0	0.01521506	0293681.3			
6	24.02	11.2	24.51564094	071948.3435974.17	0.04	20.0	0.01535761	0296462.3			
7	24.02	17.3	25.21453283	066851.0233425.51	0.04	20.0	0.01435764	0277632.0			
8	29.03	24.4	31.91404789	064620.2732310.13	0.04	20.0	0.01417320	0275530.0			
9	19.01	31.0	22.2609189	028022.6914011.35	0.04	20.0	0.0635564	9125201.8			
10	24.02	37.5	30.3309905	714255.667127.83	0.04	20.0	0.0336719	470191.7			

$$xc = 488.439 \quad yc = 334.677 \quad Rc = 225.262 \quad Fs = 1.805$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.75	-8.7	15.976949	553539.68	1769.84	0.02	18.0	0.080304	616224.6		
2	15.75	-4.6	15.8217781	210017.945008.97	0.04	20.0	0.0222395	548357.7			
3	15.75	-0.6	15.7326167	315003.7	7501.85	0.04	20.0	0.0326917	269427.8		
4	15.75	3.4	15.8398085	918311.959155.98	0.04	20.0	0.0393853	982934.4			
5	15.75	7.4	15.9433352	219934.2	9967.1	0.04	20.0	0.0425372	189314.8		
6	15.75	11.5	16.1431220	819836.169918.08	0.04	20.0	0.0422013	188679.2			
7	15.75	15.6	16.4390333	717955.358977.67	0.04	20.0	0.0382708	980814.2			
8	23.06	20.8	24.7415184	819098.5	9549.25	0.04	20.0	0.0410641	888293.8		
9	8.43	25.2	9.387398	024020.31	2010.16	0.02	18.0	0.088585	716982.7		
10	15.75	28.6	17.973384	483375.69	1687.84	0.02	18.0	0.075138	415517.6		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 13 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 507.097 \quad yc = 321.131 \quad Rc = 212.281 \quad Fs = 1.73$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	17.32	-11.4	17.7107655	14952.13	2476.07	0.02	18.0	0.0114558	623562.2		
2	17.32	-6.6	17.4307110	714127.09	7063.55	0.04	20.0	0.0317439	370829.0		
3	17.32	-2.0	17.3456756	721010.81	10505.4	0.04	20.0	0.0460461	8100899.8		
4	17.32	2.7	17.3554853	925523.28	12761.64	0.04	20.0	0.0549782	2119697.2		
5	17.32	7.4	17.5601321	327660.78	13830.39	0.04	20.0	0.0589708	8128128.2		
6	17.32	12.2	17.7595007	327370.33	13685.17	0.04	20.0	0.0581418	2126441.8		
7	19.52	17.3	20.4594896	527365.24	13682.62	0.04	20.0	0.0583399	2127490.8		
8	15.11	22.3	16.3374487	417226.42	8613.21	0.04	20.0	0.0371166	581880.1		
9	17.32	27.1	19.5308867	314207.89	7103.95	0.04	20.0	0.0311182	569980.0		
10	17.32	32.5	20.5116392	05354.03	2677.02	0.02	18.0	0.0121920	625277.3		

$$xc = 525.755 \quad yc = 334.677 \quad Rc = 226.372 \quad Fs = 1.61$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.04	-12.8	20.6154698	17116.11	3558.06	0.02	18.0	0.0166878	336228.2		
2	20.04	-7.6	20.2443605	720405.86	10202.93	0.04	20.0	0.0462279	6109520.7		
3	20.04	-2.5	20.1655831	530168.25	15084.13	0.04	20.0	0.0663360	7154934.8		
4	20.04	2.5	20.1792996	836477.85	18238.93	0.04	20.0	0.0785687	1182586.3		
5	20.04	7.6	20.2855096	539334.44	19667.22	0.04	20.0	0.0836716	1194160.9		
6	14.17	12.0	14.5599236	927564.9	13782.45	0.04	20.0	0.0583802	6135566.8		
7	25.91	17.3	27.1105347	8048459.98	24229.99	0.04	20.0	0.0102885	90239312.9		
8	20.04	23.5	21.9702960	832336.2	16168.1	0.04	20.0	0.0695799	9162713.2		
9	20.04	29.2	23.0501588	323073.06	11536.53	0.04	20.0	0.0507274	5120370.7		
10	20.04	35.2	24.5187376	68619.32	4309.66	0.04	20.0	0.0194050	649957.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 14 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 321.131 \quad Rc = 192.348 \quad Fs=1.406$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	8.53	0.1	8.5117	12.74	538.79	269.39	0.02	18.0	0.0117	03.8	3918.2
2	8.53	2.7	8.5306	58.33	1410.28	705.14	0.02	18.0	0.0303	08.0	8218.7
3	8.53	5.2	8.6436	07.92	2005.96	1002.98	0.02	18.0	0.0427	74.9	11103.3
4	8.53	7.8	8.6505	05.19	2323.24	1161.62	0.02	18.0	0.0492	52.0	12606.3
5	5.29	9.9	5.4319	69.56	1470.6	735.3	0.02	18.0	0.0310	68.2	7942.7
6	11.78	12.5	12.1763	98.34	3514.32	1757.16	0.02	18.0	0.0740	79.6	18834.3
7	8.53	15.6	8.9557	44.74	2564.26	1282.13	0.02	18.0	0.0540	37.9	13747.2
8	8.53	18.2	9.0487	72.12	243.52	1121.76	0.02	18.0	0.0473	26.6	12214.2
9	8.53	20.9	9.1348	20.77	1601.76	800.88	0.02	18.0	0.0337	96.7	9109.3
10	8.53	23.7	9.3135	31.91	622.47	311.23	0.02	18.0	0.0128	88.6	4303.6

$$xc = 563.072 \quad yc = 334.677 \quad Rc = 206.53 \quad Fs=1.365$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.74	-3.9	12.8373	399.56	1720.38	860.19	0.02	18.0	0.0382	35.7	10973.8
2	12.74	-0.4	12.7982	19.13	4518.08	2259.04	0.02	18.0	0.0983	82.5	25287.3
3	11.87	3.1	11.9129	806.75	971.11	2985.55	0.02	18.0	0.0128	270.1	32276.7
4	13.62	6.6	13.7193	907.58	919.74	4459.87	0.04	20.0	0.0188	906.2	54390.6
5	12.74	10.3	13.0219	287.11	0087.21	5043.6	0.04	20.0	0.0211	1918.6	60306.1
6	12.74	13.9	13.1233	338.01	0733.55	5366.78	0.04	20.0	0.0224	600.3	63739.6
7	12.74	17.6	13.4224	345.91	0319.91	5159.96	0.04	20.0	0.0215	860.3	61479.3
8	12.74	21.4	13.7191	1015.68	786.72	4393.36	0.04	20.0	0.0184	311.3	53158.3
9	12.74	25.2	14.1131	593.66	053.31	3026.65	0.04	20.0	0.0127	495.6	38125.7
10	12.74	29.2	14.6495	25.27	2278.16	1139.08	0.02	18.0	0.0490	14.5	13806.8

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 15 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 581.731 \quad yc = 321.131 \quad Rc = 193.643 \quad Fs = 1.339$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.59	-7.5	14.762269.392864.39	1432.2	0.02	18.0	0.065175.818009.7				
2	16.22	-2.9	16.2187601.38629.66	4314.83	0.02	18.0	0.0190319.048596.1				
3	12.97	1.4	13.0236113.810861.24	5430.62	0.04	20.0	0.0234523.767608.3				
4	14.59	5.5	14.7348193.716016.91	8008.46	0.04	20.0	0.0340476.296905.3				
5	14.59	9.9	14.8402293.518505.5	9252.75	0.04	20.0	0.0389174.3110184.5				
6	14.59	14.3	15.1421087.319370.02	9685.01	0.04	20.0	0.0405332.0114649.1				
7	14.59	18.8	15.4402776.618527.72	9263.86	0.04	20.0	0.0388008.6110047.8				
8	14.59	23.4	15.9344642.515853.55	7926.78	0.04	20.0	0.0334192.295569.0				
9	14.59	28.2	16.6242754.611166.71	5583.36	0.04	20.0	0.0238127.769659.8				
10	14.59	33.3	17.591392.444204.05	2102.03	0.04	20.0	0.089862.329633.4				

$$xc = 600.389 \quad yc = 334.677 \quad Rc = 207.825 \quad Fs = 1.392$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.26	-8.9	23.5175400.48068.42	4034.21	0.02	18.0	0.0184795.146532.7				
2	9.96	-4.3	10.0175850.28089.11	4044.56	0.04	20.0	0.0180051.449965.2				
3	16.61	-0.6	16.6431349.419842.07	9921.04	0.04	20.0	0.0432576.2117918.9				
4	16.61	4.0	16.7562260.325863.971	2931.99	0.04	20.0	0.0553177.3149474.3				
5	16.61	8.6	16.8646423.329735.471	4867.73	0.04	20.0	0.0628175.4169133.4				
6	16.61	13.3	17.1682564.731397.981	5698.99	0.04	20.0	0.0659448.6177389.9				
7	16.61	18.0	17.5668347.130743.971	5371.98	0.04	20.0	0.0646221.4174046.1				
8	20.97	23.6	22.9740880.834080.521	7040.26	0.04	20.0	0.0723035.6195694.5				
9	12.25	28.7	14.0307100.714126.63	7063.32	0.04	20.0	0.0304331.583615.3				
10	16.61	33.4	19.9161526.0	7430.2	3715.1	0.04	20.0	0.0161774.648031.1			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 16 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 321.131 \quad Rc = 174.265 \quad Fs=1.225$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	6.83	3.5	6.88621.84	396.6	198.3	0.02	18.0	0.08431.0	3351.9		
2	6.83	5.8	6.923314.351072.46	536.23	0.02	18.0	0.022709.6	7141.6			
3	6.83	8.1	6.934576.971590.54	795.27	0.02	18.0	0.033505.210009.5				
4	6.83	10.3	6.942358.241948.48	974.24	0.02	18.0	0.040874.411970.8				
5	6.83	12.6	7.046591.542143.21	1071.61	0.02	18.0	0.044828.213028.4				
6	6.83	14.9	7.147189.272170.71	1085.35	0.02	18.0	0.045325.913171.7				
7	6.83	17.3	7.144041.1 2025.89	1012.95	0.02	18.0	0.042272.812375.8				
8	6.83	19.6	7.237013.481702.62	851.31	0.02	18.0	0.035516.610600.5				
9	6.83	22.0	7.425940.481193.26	596.63	0.02	18.0	0.024833.1 7786.7				
10	6.83	24.5	7.510624.97 488.75	244.37	0.02	18.0	0.09919.5 3854.5				

$$xc = 637.706 \quad yc = 334.677 \quad Rc = 188.537 \quad Fs=1.481$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.89	-2.5	9.927890.361282.96	641.48	0.02	18.0	0.028239.1 7531.1				
2	9.89	0.6	9.976531.053520.43	1760.21	0.02	18.0	0.076360.618085.3				
3	9.89	3.6	9.9120486.55542.38	2771.19	0.04	20.0	0.0118737.331851.6				
4	9.89	6.6	10.0154804.17120.99	3560.49	0.04	20.0	0.0151233.939848.9				
5	9.89	9.6	10.0178112.58193.18	4096.59	0.04	20.0	0.0172989.545214.8				
6	9.89	12.7	10.1190159.88747.35	4373.68	0.04	20.0	0.0184118.247978.0				
7	9.96	15.8	10.4191912.48827.97	4413.99	0.04	20.0	0.0185742.248434.8				
8	9.82	19.0	10.4161261.77418.04	3709.02	0.04	20.0	0.0156349.441221.2				
9	9.89	22.2	10.7105073.8 4833.4	2416.7	0.04	20.0	0.0102063.927962.5				
10	9.89	25.4	11.036157.4 1663.24	831.62	0.02	18.0	0.035619.7 9292.2				



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 17 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 656.364 \quad yc = 321.131 \quad Rc = 175.745 \quad Fs=1.66$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.53	-7.2	11.648556.362233.59	1116.8	0.02	18.0	0.050359.211257.1				
2	11.53	-3.4	11.6138428.3	6367.7	3183.85	0.04	20.0	0.0140673.933626.9			
3	11.53	0.4	11.5217229.89992.57	4996.29	0.04	20.0	0.0216919.350339.3				
4	11.53	4.1	11.6277692.812773.87	6386.94	0.04	20.0	0.0273883.862836.3				
5	11.53	7.9	11.6319674.814705.04	7352.52	0.04	20.0	0.0312828.571394.6				
6	7.71	11.1	7.9227615.710470.32	5235.16	0.04	20.0	0.0222034.250576.1				
7	15.35	15.0	15.9422307.119426.13	9713.06	0.04	20.0	0.0411963.894153.6				
8	11.53	19.5	12.2247159.111369.32	5684.66	0.04	20.0	0.0242358.556086.8				
9	11.53	23.6	12.6163365.07514.79	3757.39	0.04	20.0	0.0161476.138436.3				
10	11.53	27.8	13.056077.932579.58	1289.79	0.02	18.0	0.056704.512668.8				

$$xc = 675.023 \quad yc = 334.677 \quad Rc = 190.017 \quad Fs=1.908$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.78	-10.2	14.079325.573648.98	1824.49	0.02	18.0	0.083432.915678.0				
2	13.78	-6.0	13.9233043.910720.02	5360.01	0.04	20.0	0.0239462.548591.2				
3	13.78	-1.9	13.8362489.016674.5	8337.25	0.04	20.0	0.0365023.472531.5				
4	18.22	3.0	18.2629782.528969.99	14485.0	0.04	20.0	0.0624237.1122919.3				
5	9.34	7.2	9.4353395.116256.18	8128.09	0.04	20.0	0.0347597.568290.1				
6	13.78	10.7	14.0500490.923022.5811511.29		0.04	20.0	0.0491089.096632.1				
7	13.78	15.0	14.3447575.820588.4910294.24		0.04	20.0	0.0440043.286943.8				
8	13.78	19.3	14.6362517.916675.82	8337.91	0.04	20.0	0.0359050.471562.7				
9	13.78	23.8	15.1242952.111175.8	5587.9	0.04	20.0	0.0243622.049636.9				
10	13.78	28.4	15.785521.65	3934.0	1967.0	0.04	20.0	0.086528.019793.9			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 18 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 321.131 \quad Rc = 197.528 \quad Fs=2.122$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.94	-21.9	23.7319606	06.314701	89.7350	95	0.04	20.0	0.0372053	668279.7	
2	21.94	-15.2	22.7916970	942180	662109	0.33	0.04	20.0	0.0997927	6175467.4	
3	21.94	-8.7	22.21388885	063888	6931944	0.35	0.04	20.0	0.01443461	0251790.8	
4	19.13	-2.7	19.21504107	069188	9134594	0.46	0.04	20.0	0.01518150	0264029.4	
5	24.75	3.7	24.82123652	097687	9848843	0.99	0.04	20.0	0.02104475	0365670.2	
6	21.94	10.5	22.31850738	085133	9642566	0.98	0.04	20.0	0.01823514	0317006.7	
7	21.94	17.1	23.01698464	078129	3439064	0.67	0.04	20.0	0.01686671	0293653.5	
8	21.94	23.9	24.01417036	065183	6432591	0.82	0.04	20.0	0.01438648	0251305.5	
9	21.94	31.1	25.6987725	545435	3822717	0.69	0.04	20.0	0.01042805	0183710.4	
10	21.94	38.9	28.2377771	817377	5	8688.75	0.04	20.0	0.0422732	277830.6	

$$xc = 712.339 \quad yc = 334.677 \quad Rc = 205.318 \quad Fs=2.304$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.56	-21.0	23.1300992	413845	656922	0.83	0.04	20.0	0.0344874	658489.7	
2	21.56	-14.7	22.3864364	639760	7719880	0.39	0.04	20.0	0.0933083	8151268.1	
3	22.79	-8.3	23.01400863	064439	7132219	0.86	0.04	20.0	0.01450008	0233055.7	
4	20.33	-2.3	20.41500752	069034	634517	0.3	0.04	20.0	0.01511611	0242320.5	
5	21.56	3.6	21.61670802	076856	9138428	0.45	0.04	20.0	0.01657473	0265580.3	
6	21.56	9.6	21.91650393	075918	0837959	0.04	0.04	20.0	0.01629660	0261233.0	
7	21.56	15.8	22.41522623	070040	6535020	0.32	0.04	20.0	0.01513725	0243012.7	
8	21.56	22.2	23.31279229	058844	5329422	0.26	0.04	20.0	0.01296450	0208842.5	
9	21.56	28.9	24.6905930	441672	8	20836.4	0.04	20.0	0.0949605	1154284.2	
10	21.56	36.1	26.7378631	517417	058708	0.53	0.04	20.0	0.0417027	170508.3	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 19 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 730.998 \quad yc = 321.131 \quad Rc = 189.619 \quad Fs=2.588$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.8	-23.4	22.7304985	314029.32	7014.66	0.04	20.0	0.0355304	253477.1		
2	27.65	-15.6	28.71260963	058004.27	29002.14	0.04	20.0	0.01363910	0196278.3		
3	13.95	-9.1	14.1892094	941036.37	20518.18	0.04	20.0	0.0924732	6132252.2		
4	20.8	-3.8	20.81488152	068454.98	34227.49	0.04	20.0	0.01505891	0215033.8		
5	20.8	2.5	20.81585053	072912.45	36456.22	0.04	20.0	0.01576835	0225008.3		
6	20.8	8.8	21.01581769	072761.36	36380.68	0.04	20.0	0.01566005	0223520.3		
7	20.8	15.2	21.61474926	067846.61	33923.3	0.04	20.0	0.01471364	0210287.3		
8	20.8	21.9	22.41256751	057810.55	28905.27	0.04	20.0	0.01280564	0183582.6		
9	20.8	28.9	23.7913248	742009.44	21004.72	0.04	20.0	0.0965824	6139518.9		
10	20.8	36.3	25.8367055	316884.54	8442.27	0.04	20.0	0.0410317	861704.7		

$$xc = 749.656 \quad yc = 334.677 \quad Rc = 181.499 \quad Fs=2.859$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	3.65	-18.5	3.87289.91	335.34	167.67	0.02	18.0	0.08082.0	1187.8		
2	26.22	-13.6	27.0369557	316999.63	8499.82	0.04	20.0	0.0393231	153841.2		
3	14.94	-7.0	15.0388445	017868.47	8934.24	0.04	20.0	0.0397762	152748.5		
4	14.94	-2.2	14.9470422	921639.45	10819.73	0.04	20.0	0.0473194	662338.6		
5	14.94	2.5	15.0513689	523629.72	11814.86	0.04	20.0	0.0511246	567183.8		
6	14.94	7.2	15.1518229	523838.56	11919.28	0.04	20.0	0.0513816	467525.8		
7	14.94	12.0	15.3483206	022227.48	11113.74	0.04	20.0	0.0480558	863321.6		
8	14.94	16.9	15.6406891	818717.02	9358.51	0.04	20.0	0.0408781	854230.4		
9	14.94	21.9	16.1286455	013176.93	6588.47	0.04	20.0	0.0292850	839538.4		
10	14.94	27.1	16.8117590	35409.15	2704.58	0.04	20.0	0.0122883	417993.1		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 20 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 768.315 \quad yc = 321.131 \quad Rc = 162.737 \quad Fs=2.864$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.56	-15.7	13.057789	272658.31	1329.15	0.02	18.0	0.062256.5	7972.4		
2	12.56	-11.1	12.816688	0.87676.52	3838.26	0.04	20.0	0.0174790.623996.8			
3	12.56	-6.6	12.624995	1.211497.75	5748.88	0.04	20.0	0.0255626.434246.5			
4	12.56	-2.2	12.630691	18.914118.27	7059.14	0.04	20.0	0.0308722.440982.6			
5	12.56	2.2	12.633824	2.115559.14	7779.57	0.04	20.0	0.0336767.644546.1			
6	12.56	6.7	12.634392	3.315820.47	7910.24	0.04	20.0	0.0340994.445093.8			
7	12.56	11.1	12.832348	8.914880.49	7440.25	0.04	20.0	0.0321309.942614.4			
8	12.56	15.7	13.027596	1.012694.21	6347.1	0.04	20.0	0.0276269.836925.5			
9	12.56	20.3	13.419974	0.79188.07	4594.04	0.04	20.0	0.0202783.227636.8			
10	12.56	25.1	13.982942	5.583815.36	1907.68	0.04	20.0	0.085610.812815.2			

$$xc = 395.147 \quad yc = 348.222 \quad Rc = 257.809 \quad Fs=2.14$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	19.84	-12.8	20.313141	0.46044.88	3022.44	0.04	20.0	0.0141022.227783.5			
2	19.84	-8.3	20.037882	5.917425.99	8713.0	0.04	20.0	0.0393052.170588.0			
3	19.84	-3.8	19.956049	9.925782.99	12891.5	0.04	20.0	0.0568463.3100387.3			
4	19.84	0.6	19.867804	1.331189.9	15594.95	0.04	20.0	0.0676853.3118811.7			
5	26.28	5.7	26.497301	6.444758.75	22379.38	0.04	20.0	0.0961006.8168362.1			
6	13.4	10.2	13.649092	3.622582.49	11291.24	0.04	20.0	0.0483552.784775.8			
7	19.84	14.0	20.469141	0.831804.9	15902.45	0.04	20.0	0.0682650.8119910.3			
8	19.84	18.6	20.958479	7.426900.68	13450.34	0.04	20.0	0.0582325.4102939.9			
9	19.84	23.3	21.640334	0.018553.64	9276.82	0.04	20.0	0.0407553.173344.1			
10	19.84	28.2	22.514529	5.16683.58	3341.79	0.02	18.0	0.0151406.525088.8			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 21 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 413.805 \quad yc = 361.768 \quad Rc = 271.809 \quad Fs=2.056$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.96	-13.6	22.6171644	97895.67	3947.83	0.04	20.0	0.0185573	337256.2		
2	21.96	-8.8	22.2487774	322437.62	11218.81	0.04	20.0	0.0508336	394335.7		
3	21.96	-4.2	22.0718880	833068.52	16534.26	0.04	20.0	0.0730577	0133647.3		
4	29.02	1.2	29.0116752	3053706.07	26853.04	0.04	20.0	0.0116334	70211640.6		
5	14.9	5.8	15.0646963	629760.33	14880.16	0.04	20.0	0.0638477	1115969.3		
6	21.96	9.8	22.3975146	444856.73	22428.37	0.04	20.0	0.0959496	0174233.0		
7	21.96	14.5	22.7922061	342414.82	21207.41	0.04	20.0	0.0909615	1165478.6		
8	21.96	19.4	23.3778550	235813.31	17906.65	0.04	20.0	0.0775374	0141824.1		
9	21.96	24.4	24.1537287	924715.24	12357.62	0.04	20.0	0.0544039	7101023.6		
10	21.96	29.6	25.3193093	78882.31	4441.15	0.02	18.0	0.0202443	034457.1		

$$xc = 432.463 \quad yc = 348.222 \quad Rc = 237.133 \quad Fs=1.774$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	1.14	0.2	1.1	134.29	6.18	3.09	0.02	18.0	0.0	133.7	153.5
2	13.88	2.0	13.928894	161329.13	664.57	0.02	18.0	0.028668	66818.5		
3	7.51	4.6	7.531505	481449.25	724.63	0.02	18.0	0.031078	16543.4		
4	7.51	6.5	7.638602	741775.73	887.86	0.02	18.0	0.037965	27807.8		
5	7.51	8.3	7.642326	721947.03	973.51	0.02	18.0	0.041539	98466.2		
6	7.51	10.1	7.642635	381961.23	980.61	0.02	18.0	0.041788	98516.3		
7	7.51	12.0	7.739473	691815.79	907.89	0.02	18.0	0.038665	77949.6		
8	7.51	13.8	7.732776	221507.71	753.85	0.02	18.0	0.032092	96751.9		
9	7.51	15.7	7.822463	031033.3	516.65	0.02	18.0	0.021956	14902.5		
10	7.51	17.6	7.98438	83388.19	194.09	0.02	18.0	0.08100	62372.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 22 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 451.122 \quad yc = 361.768 \quad Rc = 251.223 \quad Fs = 1.87$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.5	-4.0	0.5	42.24	1.94	0.97	0.02	18.0	0.0	46.6	61.6
2	22.46	-1.3	22.5102216	84701.97	2350.99	0.02	18.0	0.0102720	720249.7		
3	11.48	2.5	11.5111376	25123.31	2561.65	0.04	20.0	0.0110427	723949.8		
4	11.48	5.2	11.5137778	96337.83	3168.92	0.04	20.0	0.0135733	928882.7		
5	11.48	7.8	11.6151380	16963.49	3481.74	0.04	20.0	0.0148497	831379.8		
6	11.48	10.4	11.7151980	16991.08	3495.54	0.04	20.0	0.0148744	331446.2		
7	11.48	13.1	11.8139284	36407.08	3203.54	0.04	20.0	0.0136249	029038.7		
8	11.48	15.8	11.9112898	65193.34	2596.67	0.04	20.0	0.0110524	824062.9		
9	11.48	18.6	12.177420	473561.34	1780.67	0.02	18.0	0.076755	414630.9		
10	11.48	21.3	12.329221	911344.21	672.1	0.02	18.0	0.028897	0	6338.7	

$$xc = 469.78 \quad yc = 348.222 \quad Rc = 259.659 \quad Fs = 1.867$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.82	-17.5	27.1298188	013716.65	6858.32	0.04	20.0	0.0335031	671106.0		
2	29.22	-11.2	29.8961003	144206.14	22103.07	0.04	20.0	0.01020365	0205274.9		
3	22.43	-5.4	22.51079808	049671.17	24835.58	0.04	20.0	0.01105640	0220343.7		
4	25.82	-0.1	25.81518910	069869.84	34934.92	0.04	20.0	0.01519420	0301704.5		
5	25.82	5.6	25.91679075	077237.44	38618.72	0.04	20.0	0.01654900	0328139.7		
6	25.82	11.4	26.31697560	078087.76	39043.88	0.04	20.0	0.01665140	0330220.2		
7	25.82	17.3	27.01567763	072117.08	36058.54	0.04	20.0	0.01546311	0307207.9		
8	20.27	22.7	22.01033666	047548.63	23774.32	0.04	20.0	0.01034139	0206286.2		
9	31.38	29.1	35.91148862	052847.67	26423.83	0.04	20.0	0.01182162	0238124.0		
10	25.82	36.6	32.2343997	615823.89	7911.94	0.04	20.0	0.0369825	078978.7		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 23 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 488.439 \quad yc = 361.768 \quad Rc = 273.659 \quad Fs = 1.762$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	28.11	-17.9	29.5363283	283.316711	0.03	8355.52	0.04	20.0	0.0411345	891653.2	
2	15.47	-13.1	15.9476907	321937.731	0.0968	8.87	0.04	20.0	0.0515408	1.110043.6	
3	40.76	-7.2	41.12045915	0.094112	0.0947056	0.05	0.04	20.0	0.02118240	0.0446766.7	
4	28.11	0.1	28.11867253	0.085893	6.342946	8.1	0.04	20.0	0.01866713	0.0391880.7	
5	28.11	6.0	28.32049230	0.094264	5.947132	3	0.04	20.0	0.02016142	0.0422774.5	
6	28.11	12.0	28.72057394	0.094640	1.347320	0.06	0.04	20.0	0.02013580	0.0422351.9	
7	20.9	17.3	21.91424263	0.065516	0.0832758	0.04	0.04	20.0	0.01400039	0.0294092.5	
8	35.33	23.6	38.52093733	0.096311	7.48155	8.5	0.04	20.0	0.02092133	0.0440801.0	
9	28.11	31.1	32.81179902	0.054275	5.27137	7.5	0.04	20.0	0.01221044	0.0259609.8	
10	28.11	38.3	35.8460196	4.21169	0.0410584	5.2	0.04	20.0	0.0498451	9.111061.7	

$$xc = 507.097 \quad yc = 348.222 \quad Rc = 239.353 \quad Fs = 1.676$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.82	-10.3	19.1120638	0.05549	35	2774.67	0.02	18.0	0.0127551	1.27018.1	
2	18.82	-5.8	18.9344423	2.215843	4.7	7921.73	0.04	20.0	0.0354424	2.281505.2	
3	18.82	-1.3	18.8511036	6.23507	6.811753	8.4	0.04	20.0	0.0513704	9.116082.6	
4	18.82	3.3	18.9619001	8.28474	0.814237	0.04	0.04	20.0	0.0612183	5.137480.5	
5	18.82	7.8	19.0668070	4.30731	2.415365	6.2	0.04	20.0	0.0654233	9.146649.3	
6	18.82	12.4	19.3656876	0.30216	3	15108.15	0.04	20.0	0.0640944	6.143827.6	
7	12.26	16.2	12.8391177	6.17994	1.7	8997.08	0.04	20.0	0.0382339	1.86101.4	
8	25.38	21.0	27.2698448	1.32128	6.116064	4.31	0.04	20.0	0.0688238	9.155990.5	
9	18.82	26.8	21.1355145	6.16336	7	8168.35	0.04	20.0	0.0356203	2.282408.1	
10	18.82	31.9	22.2132346	9.6087	9.6	3043.98	0.02	18.0	0.0137673	5.29345.0	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 24 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 525.755 \quad yc = 361.768 \quad Rc = 253.443 \quad Fs = 1.578$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.62	-11.7	22.1171512	77889.58	3944.79	0.04	20.0	0.0185191	848311.2		
2	21.62	-6.8	21.8490775	822575.69	11287.84	0.04	20.0	0.0508789	0122868.2		
3	21.62	-1.9	21.6724311	633318.34	16659.17	0.04	20.0	0.0730326	1173928.6		
4	21.62	3.0	21.7873779	240193.84	20096.92	0.04	20.0	0.0864136	3204795.9		
5	30.01	8.9	30.4130672	060109.13	0054.55	0.04	20.0	0.0127533	50301846.2		
6	13.24	13.9	13.6570257	926231.86	13115.93	0.04	20.0	0.0554930	6131448.5		
7	21.62	18.0	22.7907472	941743.75	20871.88	0.04	20.0	0.0885927	9210096.8		
8	21.62	23.2	23.5789283	136307.02	18153.51	0.04	20.0	0.0779255	1185695.2		
9	21.62	28.7	24.7562698	125884.11	12942.06	0.04	20.0	0.0566536	7136916.3		
10	21.62	34.4	26.2211364	59722.77	4861.38	0.04	20.0	0.0217363	856780.3		

$$xc = 544.414 \quad yc = 348.222 \quad Rc = 219.416 \quad Fs = 1.336$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.81	0.3	9.815224	39700.32	350.16	0.02	18.0	0.015196	85166.8		
2	9.81	2.9	9.839698	121826.11	913.06	0.02	18.0	0.039195	811007.4		
3	9.81	5.4	9.956171	792583.9	1291.95	0.02	18.0	0.055010	414859.8		
4	9.87	8.0	10.064986	132989.36	1494.68	0.02	18.0	0.063247	916881.2		
5	9.75	10.6	9.971967	23310.49	1655.25	0.02	18.0	0.069759	618457.7		
6	9.81	13.2	10.179652	193664.0	1832.0	0.02	18.0	0.077060	820257.9		
7	9.81	15.9	10.278272	633600.54	1800.27	0.02	18.0	0.075704	319946.1		
8	9.81	18.6	10.467931	913124.87	1562.43	0.02	18.0	0.065767	017550.9		
9	9.81	21.3	10.548228	822218.53	1109.26	0.02	18.0	0.046718	412943.5		
10	9.81	24.1	10.718667	6858.71	429.35	0.02	18.0	0.017793	05938.5		



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 25 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 563.072 \quad yc = 361.768 \quad Rc = 233.598 \quad Fs = 1.346$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.07	-3.4	14.1438	16.8220	15.57	1007.79	0.02	18.0	0.0446	53.5128	68.6
2	14.07	0.1	14.1114	850.9528	3.14	2641.57	0.02	18.0	0.0114	813.2297	95.2
3	9.6	3.0	9.6107	456.5	4943.0	2471.5	0.02	18.0	0.0106	194.8270	53.4
4	18.54	6.4	18.7283	506.4130	41.29	6520.65	0.04	20.0	0.0276	248.6802	15.8
5	14.07	10.5	14.3266	636.3122	65.27	6132.64	0.04	20.0	0.0257	494.7738	54.2
6	14.07	14.0	14.5282	670.4130	02.84	6501.42	0.04	20.0	0.0271	1919.8778	10.9
7	14.07	17.6	14.8271	262.2124	78.06	6239.03	0.04	20.0	0.0260	828.3748	89.8
8	14.07	21.3	15.1230	908.2106	21.78	5310.89	0.04	20.0	0.0222	616.9646	60.9
9	14.07	25.0	15.5159	573.5734	0.38	3670.19	0.04	20.0	0.0154	462.2463	65.4
10	14.07	28.9	16.1590	49.1	2716.26	1358.13	0.02	18.0	0.0583	358.4164	69.5

$$xc = 581.731 \quad yc = 348.222 \quad Rc = 220.711 \quad Fs = 1.335$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.67	-6.7	15.8683	10.2731	142.27	1571.14	0.02	18.0	0.0710	86.5196	60.6
2	16.14	-2.5	16.2187	203.8861	11.37	4305.69	0.02	18.0	0.0189	548.5485	42.0
3	15.2	1.5	15.2284	472.7130	85.74	6542.87	0.04	20.0	0.0282	402.7815	29.4
4	15.67	5.5	15.7391	828.5180	24.11	9012.06	0.04	20.0	0.0383	077.5109	131.5
5	15.67	9.7	15.9454	954.9209	27.92	10463.96	0.04	20.0	0.0440	268.2124	765.2
6	15.67	13.8	16.1479	791.4220	70.4	11035.2	0.04	20.0	0.0461	1935.4130	743.4
7	15.67	18.0	16.5464	552.4213	69.41	10684.71	0.04	20.0	0.0447	259.9126	846.4
8	15.67	22.4	17.0406	615.4187	04.31	9352.15	0.04	20.0	0.0393	490.6112	330.5
9	15.67	26.9	17.6302	2220.7139	02.15	6951.08	0.04	20.0	0.0295	345.5857	764.9
10	15.67	31.5	18.4129	743.5	5968.2	2984.1	0.04	20.0	0.0127	517.7402	65.9

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 26 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 600.389 \quad yc = 361.768 \quad Rc = 234.893 \quad Fs = 1.416$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.72	-8.0	25.0188385	68665.74	4332.87	0.02	18.0	0.0197122	448748.1		
2	10.77	-3.7	10.8193984	68923.29	4461.65	0.04	20.0	0.0197831	953887.7		
3	17.75	-0.2	17.7473311	421772.32	10886.16	0.04	20.0	0.0473717	4126750.5		
4	17.75	4.2	17.8619474	828495.84	14247.92	0.04	20.0	0.0609371	11161624.7		
5	17.75	8.5	17.9715215	432899.91	16449.96	0.04	20.0	0.0695666	0183844.0		
6	17.75	12.9	18.2759226	834924.43	17462.21	0.04	20.0	0.0734468	4193890.0		
7	17.75	17.4	18.6749193	334462.89	17231.45	0.04	20.0	0.0725086	9191589.6		
8	14.51	21.6	15.6564220	925954.16	12977.08	0.04	20.0	0.0549190	6145540.0		
9	20.98	26.3	23.4594595	127351.38	13675.69	0.04	20.0	0.0585693	1157128.3		
10	17.75	31.7	20.9171044	77868.06	3934.03	0.04	20.0	0.0170397	149683.1		

$$xc = 619.047 \quad yc = 348.222 \quad Rc = 201.329 \quad Fs = 1.363$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	7.57	3.2	7.610914	64	502.07	251.04	0.02	18.0	0.010727	9	3668.8
2	7.57	5.3	7.629735	671367	84	683.92	0.02	18.0	0.029112	8	8053.6
3	7.57	7.5	7.644519	372047	89	1023.95	0.02	18.0	0.043394	011462	0
4	7.57	9.7	7.755213	08	2539.8	1269.9	0.02	18.0	0.053637	613909	8
5	7.57	11.9	7.762467	222873	49	1436.75	0.04	20.0	0.059988	318284	6
6	7.57	14.1	7.865495	59	3012.8	1506.4	0.04	20.0	0.062747	919041	6
7	7.57	16.3	7.963564	552923	97	1461.99	0.04	20.0	0.060802	818546	7
8	7.57	18.6	8.056516	362599	75	1299.88	0.04	20.0	0.053991	116757	0
9	7.03	20.8	7.541532	5	1910.5	955.25	0.04	20.0	0.039575	412773	3
10	8.1	23.1	8.820982	95	965.22	482.61	0.02	18.0	0.020207	0	6108.3

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 27 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 637.706 \quad yc = 361.768 \quad Rc = 215.602 \quad Fs = 1.529$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	10.68	-2.1	10.731707.8	1458.56	729.28	0.02	18.0	0.032024.9	8203.0		
2	10.68	0.8	10.787270.024014.42	2007.21	0.02	18.0	0.087010.719886.6				
3	10.68	3.6	10.7138753.16382.64	3191.32	0.04	20.0	0.0136797.335362.1				
4	10.68	6.5	10.7178884.38228.68	4114.34	0.04	20.0	0.0174991.744466.1				
5	10.68	9.3	10.8206917.69518.21	4759.11	0.04	20.0	0.0201352.750760.6				
6	10.68	12.2	10.9222596.610239.44	5119.72	0.04	20.0	0.0216002.854275.1				
7	5.34	14.4	5.5113036.45199.68	2599.84	0.04	20.0	0.0109632.127539.0				
8	16.02	17.4	16.8285357.013126.42	6563.21	0.04	20.0	0.0276992.870325.0				
9	10.68	21.1	11.4114189.2	5252.7	2626.35	0.04	20.0	0.0111044.529427.6			
10	10.68	24.2	11.739196.131803.02	901.51	0.02	18.0	0.038597.6	9733.3			

$$xc = 656.364 \quad yc = 348.222 \quad Rc = 202.809 \quad Fs = 1.708$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.44	-6.3	12.554057.5	2486.65	1243.32	0.02	18.0	0.055713.412060.9			
2	12.44	-2.8	12.5155060.8	7132.8	3566.4	0.04	20.0	0.0156993.936362.5			
3	12.44	0.8	12.4243789.711214.33	5607.16	0.04	20.0	0.0243088.454701.6				
4	12.44	4.3	12.5312575.714378.48	7189.24	0.04	20.0	0.0308319.068606.7				
5	16.3	8.4	16.5481080.122129.69	11064.84	0.04	20.0	0.0470932.2104189.1				
6	8.57	11.9	8.8257670.511852.84	5926.42	0.04	20.0	0.0251600.255653.8				
7	12.44	15.0	12.9334281.515376.95	7688.48	0.04	20.0	0.0326617.772599.6				
8	12.44	18.7	13.1266893.012277.08	6138.54	0.04	20.0	0.0261826.658855.0				
9	12.44	22.4	13.5176048.38098.22	4049.11	0.04	20.0	0.0173860.140190.5				
10	12.44	26.3	13.960222.942770.26	1385.13	0.02	18.0	0.060665.213161.7				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 28 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 675.023 \quad yc = 361.768 \quad Rc = 216.58 \quad Fs = 1.936$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.52	-8.9	14.7830	11.4838	18.53	1909.26	0.02	18.0	0.0865	19.1160	35.5
2	14.52	-5.0	14.6244	583.4112	50.84	5625.42	0.04	20.0	0.0249	887.3499	80.1
3	14.52	-1.1	14.5381	589.3175	53.11	8776.56	0.04	20.0	0.0383	167.2750	20.5
4	16.05	2.9	16.1545	471.8250	91.7	12545.85	0.04	20.0	0.0540	852.1104	977.4
5	13.0	6.8	13.1481	158.3221	33.281	1066.64	0.04	20.0	0.0473	654.3917	31.6
6	14.52	10.4	14.8513	930.3236	40.79	11820.4	0.04	20.0	0.0504	545.3978	84.6
7	14.52	14.4	15.0458	482.8210	90.21	10545.1	0.04	20.0	0.0450	794.5878	28.1
8	14.52	18.4	15.3370	310.9170	34.3	8517.15	0.04	20.0	0.0366	299.1720	10.8
9	14.52	22.5	15.7247	313.9113	76.44	5688.22	0.04	20.0	0.0247	102.2496	92.2
10	14.52	26.7	16.3865	79.1239	82.64	1991.32	0.04	20.0	0.0870	008.9197	13.0

$$xc = 693.681 \quad yc = 348.222 \quad Rc = 221.021 \quad Fs = 2.104$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.25	-18.9	23.5295	321.5135	84.79	6792.4	0.04	20.0	0.0333	344.3621	142.5
2	22.25	-12.9	22.8856	375.3393	93.26	19696.63	0.04	20.0	0.0915	582.4162	742.5
3	22.25	-7.0	22.4130	4067.0599	87.09	29993.54	0.04	20.0	0.0134	2881.0236	591.1
4	16.08	-2.0	16.1115	8475.0532	89.85	26644.93	0.04	20.0	0.0116	6347.0204	845.4
5	28.43	3.8	28.5223	1085.0102	629.95	1314.96	0.04	20.0	0.0221	10334.0387	821.1
6	22.25	10.4	22.6171	11534.0787	30.58	39365.29	0.04	20.0	0.0168	5805.0295	958.5
7	22.25	16.3	23.2156	3119.0719	03.48	35951.74	0.04	20.0	0.0154	9075.0272	410.8
8	22.25	22.5	24.1129	5777.0596	05.73	29802.87	0.04	20.0	0.0130	6876.0230	678.1
9	22.25	28.9	25.4895	070.8411	73.25	20586.63	0.04	20.0	0.0930	823.5165	872.3
10	22.25	35.8	27.4337	227.0155	12.44	7756.22	0.04	20.0	0.0366	168.9685	563.5

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 29 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 712.339 \quad yc = 361.768 \quad Rc = 228.551 \quad Fs=2.292$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.55	-18.0	22.7270044	4.412422	0.046211	0.02	0.04	20.0	0.0300760	35.1707	6.351707
2	21.55	-12.4	22.1784213	2.36073	0.811803	6.9	0.04	20.0	0.0832854	3.13608	6.7313608
3	19.9	-7.1	20.1109411	3.05032	9.21251	6.4	0.04	20.0	0.0112535	3.01821	7.6301821
4	23.21	-1.7	23.2153464	5.07059	3.66352	9.83	0.04	20.0	0.0154266	3.02489	7.1024898
5	21.55	3.9	21.6150137	6.06906	3.28345	3.164	0.04	20.0	0.0148842	1.02400	9.9024009
6	21.55	9.4	21.8148016	6.06808	7.64340	4.382	0.04	20.0	0.0146127	0.02358	2.1023582
7	21.55	14.9	22.3136291	9.06269	4.27313	4.714	0.04	20.0	0.0135221	4.02185	8.0021858
8	21.55	20.6	23.0114341	9.05259	7.29262	9.864	0.04	20.0	0.0115129	9.01868	14.5018681
9	21.55	26.5	24.1811322	6.37320	8.41866	0.42	0.04	20.0	0.0838157	6.13728	0.7613728
10	21.55	32.7	25.6345073	1.15873	3.36793	6.68	0.04	20.0	0.0369638	3.36316	0.3363160

$$xc = 730.998 \quad yc = 348.222 \quad Rc = 212.817 \quad Fs=2.566$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.87	-20.1	22.2274320	7.12618	7.75630	9.38	0.04	20.0	0.0309300	1.14732	8.1147328
2	25.44	-13.5	26.2102338	9.04707	5.87235	3.94	0.04	20.0	0.0109085	6.01587	8.2015878
3	16.3	-7.8	16.5927778	1.42677	7.79213	3.89	0.04	20.0	0.0955337	1.11380	1.5611380
4	20.87	-2.8	20.9134036	0.06165	6.54308	2.27	0.04	20.0	0.0135134	7.01949	0.6701949
5	20.87	2.9	20.9142631	3.06561	0.41328	0.521	0.04	20.0	0.0141788	3.02043	4.2020434
6	20.87	8.5	21.1142201	6.06541	2.72327	0.36	0.04	20.0	0.0140748	7.02029	1.0020290
7	20.87	14.3	21.5132474	5.06093	8.26304	6.913	0.04	20.0	0.0131847	9.01903	4.8019034
8	20.87	20.2	22.2112863	8.05191	7.32259	5.866	0.04	20.0	0.0114154	9.01653	6.1016536
9	20.35	26.2	22.7807635	5.53715	1.23185	7.562	0.04	20.0	0.0839772	2.21226	3.0226330
10	21.39	32.7	25.4337660	1.15532	3.36776	6.18	0.04	20.0	0.0365375	1.15577	8.4015577

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 30 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 749.656 \quad yc = 361.768 \quad Rc = 205.665 \quad Fs=2.861$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.53	-15.8	0.6	139.07	6.4	3.2	0.02	18.0	0.0	160.5	56.7
2	28.8	-11.6	29.4289421	913313.41	6656.7	0.04	20.0	0.0304249	542821.7		
3	14.67	-5.4	14.7310975	414304.87	7152.44	0.04	20.0	0.0316425	242319.4		
4	14.67	-1.4	14.7380622	617508.64	8754.32	0.04	20.0	0.0381924	950644.4		
5	14.67	2.7	14.7417985	319227.32	9613.66	0.04	20.0	0.0415835	254960.6		
6	14.67	6.8	14.8422982	819457.21	9728.6	0.04	20.0	0.0419367	055422.3		
7	14.67	11.0	14.9395025	018171.15	9085.57	0.04	20.0	0.0392302	052002.3		
8	14.67	15.2	15.2332960	915316.2	7658.1	0.04	20.0	0.0332928	344484.0		
9	14.67	19.5	15.6235007	110810.33	5405.16	0.04	20.0	0.0237790	132429.6		
10	14.67	23.9	16.098533	634532.55	2266.27	0.04	20.0	0.0101065	315101.3		

$$xc = 768.315 \quad yc = 348.222 \quad Rc = 186.90 \quad Fs=2.861$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.98	-12.1	12.243087	771982.04	991.02	0.02	18.0	0.045341	46006.1		
2	11.98	-8.3	12.1123159	95665.36	2832.68	0.04	20.0	0.0127082	017861.2		
3	11.98	-4.6	12.0185855	28549.34	4274.67	0.04	20.0	0.0188536	925667.8		
4	11.98	-0.9	12.0229038	010535.75	5267.88	0.04	20.0	0.0229578	630884.3		
5	11.98	2.7	12.0252896	911633.26	5816.63	0.04	20.0	0.0251577	833685.0		
6	11.98	6.4	12.1257364	311838.76	5919.38	0.04	20.0	0.0255146	434147.7		
7	11.98	10.1	12.2242145	811138.71	5569.35	0.04	20.0	0.0240215	532264.0		
8	11.98	13.9	12.3206669	29506.78	4753.39	0.04	20.0	0.0205985	127932.7		
9	11.98	17.7	12.6150073	06903.36	3451.68	0.04	20.0	0.0150845	720950.1		
10	11.98	21.6	12.963215	362907.91	1453.95	0.04	20.0	0.064052	09950.5		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 31 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 395.147 \quad yc = 375.314 \quad Rc = 284.884 \quad Fs=2.112$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.09	-11.9	21.6141742.96520.17	3260.09	0.04	20.0	0.0151183.330141.8				
2	21.09	-7.6	21.3408194.318776.94	9388.47	0.04	20.0	0.0421983.076766.4				
3	21.09	-3.3	21.1603530.327762.39	13881.2	0.04	20.0	0.0610844.1109291.3				
4	21.09	0.9	21.1729257.633545.8516772.93		0.04	20.0	0.0727227.6129345.8				
5	23.62	5.5	23.7881273.840538.59	20269.3	0.04	20.0	0.0870528.8154545.4				
6	18.56	9.7	18.8694211.331933.7215966.86		0.04	20.0	0.0683528.8121385.0				
7	21.09	13.8	21.7748699.834440.1917220.09		0.04	20.0	0.0738679.6131438.2				
8	21.09	18.2	22.2632502.629095.1214547.56		0.04	20.0	0.0628840.6112597.8				
9	21.09	22.8	22.9435412.820028.9910014.49		0.04	20.0	0.0438649.179941.5				
10	21.09	27.5	23.8156764.57211.17	3605.58	0.02	18.0	0.0162501.027255.9				

$$xc = 413.805 \quad yc = 388.859 \quad Rc = 298.884 \quad Fs=2.034$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.27	-12.7	23.9184057.48466.64	4233.32	0.04	20.0	0.0197704.140077.1				
2	23.27	-8.2	23.5522737.224045.9112022.96		0.04	20.0	0.0542670.3101752.1				
3	23.27	-3.7	23.3770012.535420.5717710.29		0.04	20.0	0.0780853.1144345.3				
4	27.68	1.2	27.71116351.051352.1325676.06		0.04	20.0	0.01112249.0204518.7				
5	18.86	5.7	19.0828166.338095.6519047.83		0.04	20.0	0.0817318.8150013.6				
6	23.27	9.8	23.61049472.048275.7224137.86		0.04	20.0	0.01032302.0189408.3				
7	23.27	14.3	24.0991663.645616.5322808.26		0.04	20.0	0.0977613.1179699.7				
8	23.27	19.0	24.6836338.938471.5919235.79		0.04	20.0	0.0831610.5153684.3				
9	23.27	23.8	25.4576058.826498.7	13249.35	0.04	20.0	0.0581484.1109077.6				
10	23.27	28.8	26.5206868.19515.93	4757.97	0.02	18.0	0.0215661.637069.2				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 32 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 432.463 \quad yc = 375.314 \quad Rc = 264.204 \quad Fs = 1.748$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)	
1	0.97	0.2	1.0	95.45	4.39	2.2	0.02	18.0	0.0	94.9	128.1	
2	15.74	2.0	15.836192	15.836192	1664.84	832.42	0.02	18.0	0.035913	0	8476.9	
3	8.35	4.7	8.439058	8.439058	1796.67	898.34	0.02	18.0	0.038525	9	8119.3	
4	8.35	6.5	8.447791	8.447791	1862.198	1099.21	0.02	18.0	0.046997	8	9696.9	
5	8.35	8.3	8.452362	8.452362	2408.65	1204.33	0.02	18.0	0.051381	9	10515.7	
6	8.35	10.1	8.552718	8.552718	2425.05	1212.53	0.02	18.0	0.051664	0	10573.1	
7	8.35	12.0	8.548792	8.548792	2444.46	1122.23	0.02	18.0	0.047787	1	9858.7	
8	8.35	13.8	8.640503	8.640503	1863.17	931.59	0.02	18.0	0.039656	6	8354.9	
9	8.35	15.7	8.727753	8.727753	1276.65	638.33	0.02	18.0	0.027132	9	6035.8	
10	8.35	17.6	8.810423	8.810423	77	479.49	239.75	0.02	18.0	0.010026	5	2866.3

$$xc = 451.122 \quad yc = 388.859 \quad Rc = 278.295 \quad Fs = 1.859$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)	
1	0.73	-3.6	0.7	86.45	3.98	1.99	0.02	18.0	0.0	92.6	94.5	
2	24.05	-1.1	24.111544	24.111544	825310.62	2655.31	0.02	18.0	0.011588	6	422845.7	
3	12.39	2.7	12.412666	12.412666	45826.56	2913.28	0.04	20.0	0.012551	8	927247.1	
4	12.39	5.3	12.415661	12.415661	467204.27	3602.14	0.04	20.0	0.015424	9	432881.2	
5	12.39	7.8	12.517202	12.517202	687913.23	3956.62	0.04	20.0	0.016873	2	335731.0	
6	12.39	10.4	12.617267	12.617267	537943.06	3971.53	0.04	20.0	0.016898	7	35800.5	
7	12.39	13.0	12.715823	12.715823	37278.73	3639.37	0.04	20.0	0.015476	8	133041.9	
8	12.39	15.7	12.912826	12.912826	85900.36	2950.18	0.04	20.0	0.012554	5	027351.9	
9	12.39	18.3	13.187692	13.187692	2	4033.84	2016.92	0.02	18.0	0.086880	9	16591.3
10	12.39	21.0	13.333082	13.333082	351521.79	760.89	0.02	18.0	0.032696	7	7143.6	



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 33 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 375.314 \quad Rc = 286.734 \quad Fs = 1.82$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.58	-16.3	28.7323188	914866.69	7433.35	0.04	20.0	0.0359752	2.78252	4	
2	31.02	-10.3	31.51032905	0.47513	6123756.81	0.04	20.0	0.01090874	0.225060	9	
3	24.14	-4.7	24.21177404	0.054160	5627080.28	0.04	20.0	0.01201859	0.245646	6	
4	27.58	0.4	27.61645161	0.075677	437838.7	0.04	20.0	0.01642697	0.334535	0	
5	27.58	6.0	27.71815753	0.083524	6241762.31	0.04	20.0	0.01787671	0.363556	8	
6	27.58	11.5	28.21829779	0.084169	8342084.91	0.04	20.0	0.01793061	0.364726	8	
7	39.12	18.5	41.22307353	0.106138	253069.12	0.04	20.0	0.02277576	0.464488	3	
8	16.04	24.4	17.6758479	0.834890	0.717445	0.04	20.0	0.0761893	6.156218	7	
9	27.58	29.3	31.6988851	0.745487	1.822743	0.04	20.0	0.01015935	0.210095	7	
10	27.58	35.9	34.0379259	0.617445	948722.97	0.04	20.0	0.0404113	3.88284	2	

$$xc = 488.439 \quad yc = 388.859 \quad Rc = 300.734 \quad Fs = 1.721$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	29.91	-16.8	31.2391604	5.18013	819006.9	0.04	20.0	0.0439257	7.100145	1	
2	17.36	-12.1	17.8547274	4.25174	6312587.31	0.04	20.0	0.0587309	3.128315	7	
3	42.47	-6.4	42.72168665	0.099758	5849879.29	0.04	20.0	0.02235831	0.482711	2	
4	29.91	0.6	29.92011565	0.092531	9846265.99	0.04	20.0	0.02007368	0.431422	4	
5	29.91	6.3	30.12204502	0.101407	150703.55	0.04	20.0	0.02166586	0.465131	8	
6	43.7	13.4	44.93183203	0.146427	373213.66	0.04	20.0	0.03113033	0.668710	8	
7	16.13	19.4	17.11067450	0.049102	7124551.35	0.04	20.0	0.01051865	0.226396	4	
8	29.91	24.1	32.81773552	0.081583	3740791.68	0.04	20.0	0.01771944	0.382304	4	
9	29.91	30.5	34.71285031	0.059111	4429555.72	0.04	20.0	0.01322295	0.287678	9	
10	29.91	37.4	37.7501701	0.323078	2611539.13	0.04	20.0	0.0538069	6.122534	1	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESNO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 34 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 507.097 \quad yc = 375.314 \quad Rc = 266.424 \quad Fs = 1.631$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.3	-9.5	20.6133999	46163.97	3081.99	0.02	18.0	0.0140937	830591.6		
2	20.3	-5.0	20.4382794	817608.56	8804.28	0.04	20.0	0.0392460	392551.5		
3	20.3	-0.7	20.3566671	826066.9	13033.45	0.04	20.0	0.0568256	8131751.3		
4	20.3	3.7	20.3684485	131486.31	15743.16	0.04	20.0	0.0675843	1155762.9		
5	20.3	8.1	20.5735838	333848.56	16924.28	0.04	20.0	0.0719694	6165585.5		
6	25.27	13.1	25.9886694	840787.96	20393.98	0.04	20.0	0.0864048	8199123.9		
7	15.33	17.6	16.1487785	722438.14	1219.07	0.04	20.0	0.0476756	8110303.9		
8	20.3	21.7	21.8569170	626181.85	13090.92	0.04	20.0	0.0560660	0130435.4		
9	20.3	26.5	22.7403980	318583.09	9291.55	0.04	20.0	0.0403694	795621.8		
10	20.3	31.5	23.8149061	26856.82	3428.41	0.02	18.0	0.0154194	533627.0		

$$xc = 525.755 \quad yc = 388.859 \quad Rc = 280.515 \quad Fs = 1.543$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.17	-10.8	23.6188934	68690.99	4345.5	0.04	20.0	0.0202640	553903.4		
2	23.17	-6.0	23.3538828	924786.13	12393.07	0.04	20.0	0.0556289	3137230.5		
3	23.17	-1.3	23.2793862	736517.68	18258.84	0.04	20.0	0.0798374	1194290.4		
4	23.17	3.5	23.2955533	443954.54	21977.27	0.04	20.0	0.0943442	0228511.8		
5	25.71	8.5	26.01136694	052287.92	6143.95	0.04	20.0	0.01109226	0268330.8		
6	20.63	13.3	21.2923600	042485.6	21242.8	0.04	20.0	0.0897708	4217204.5		
7	23.17	18.0	24.41011691	046537.79	23268.89	0.04	20.0	0.0986098	7238868.7		
8	23.17	23.0	25.2878878	640428.42	20214.21	0.04	20.0	0.0865455	0210628.9		
9	23.17	28.3	26.3626192	128804.83	14402.42	0.04	20.0	0.0627777	3154871.1		
10	23.17	33.8	27.9236485	710878.34	5439.17	0.04	20.0	0.0241644	564217.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 35 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 375.314 \quad Rc = 246.484 \quad Fs = 1.287$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.09	0.4	11.119172.36	881.93	440.96	0.02	18.0	0.019121.7	6549.6		
2	11.09	3.0	11.149835.3	2292.42	1146.21	0.02	18.0	0.049157.314	133.5		
3	11.09	5.6	11.170217.163	229.99	1615.0	0.02	18.0	0.068681.419	067.6		
4	5.94	7.6	6.042205.381	941.45	970.72	0.02	18.0	0.041071.511	297.9		
5	16.24	10.2	16.5139431.164	13.83	3206.92	0.02	18.0	0.0135070.136	658.1		
6	11.09	13.5	11.4107099.249	26.56	2463.28	0.02	18.0	0.0103450.027	884.2		
7	11.09	16.1	11.5104357.448	800.44	2400.22	0.02	18.0	0.0100759.827	227.1		
8	11.09	18.8	11.790064.7	4142.98	2071.49	0.02	18.0	0.087044.523	792.0		
9	11.09	21.6	11.963690.732	929.77	1464.89	0.02	18.0	0.061608.217	403.8		
10	11.09	24.4	12.224580.37	1130.7	565.35	0.02	18.0	0.023447.4	7810.1		

$$xc = 563.072 \quad yc = 388.859 \quad Rc = 260.665 \quad Fs = 1.332$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.33	-3.0	15.350304.41	2314.0	1157.0	0.02	18.0	0.051135.014	781.5		
2	22.71	1.2	22.7218519.010	051.87	5025.94	0.02	18.0	0.0217360.656	446.3		
3	7.94	4.6	8.0109077.850	17.58	2508.79	0.04	20.0	0.0106887.431	608.4		
4	15.33	7.2	15.4267582.112	308.78	6154.39	0.04	20.0	0.0260159.975	746.8		
5	15.33	10.6	15.6316671.414	566.88	7283.44	0.04	20.0	0.0305666.088	227.9		
6	15.33	14.0	15.8335196.515	419.04	7709.52	0.04	20.0	0.0322303.792	837.3		
7	15.33	17.5	16.1321931.814	808.86	7404.43	0.04	20.0	0.0309376.889	386.9		
8	15.33	21.1	16.4275173.112	657.96	6328.98	0.04	20.0	0.0265090.777	389.4		
9	15.33	24.8	16.9192640.488	61.46	4430.73	0.04	20.0	0.0186322.455	995.7		
10	15.33	28.5	17.473605.223	385.84	1692.92	0.02	18.0	0.072714.020	362.1		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 36 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 581.731 \quad yc = 375.314 \quad Rc = 247.779 \quad Fs = 1.349$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	16.7	-6.0	16.874272	272.7634	16.55	1708.27	0.02	18.0	0.0769	10.22	1009.2
2	15.98	-2.2	16.0185789	38546.31	4273.16	0.02	18.0	0.0187801	9.9475	94.6	
3	17.41	1.6	17.4334565	8.15390.03	7695.02	0.04	20.0	0.0332029	19.1947	29.4	
4	16.7	5.6	16.8436139	420062.41	10031.21	0.04	20.0	0.0426505	5.5120	23.1	
5	16.7	9.5	16.9508599	0.23395.55	11697.78	0.04	20.0	0.0492627	1.1137	904.4	
6	16.7	13.4	17.2539913	2.24836.01	12418.0	0.04	20.0	0.0520367	5.5145	457.7	
7	16.7	17.4	17.5528314	8.24302.48	12151.24	0.04	20.0	0.0509000	5.5142	490.6	
8	16.7	21.5	17.9471241	5.21677.11	10838.55	0.04	20.0	0.0455952	8.8128	313.8	
9	13.11	25.3	14.5297621	5.13690.59	6845.29	0.04	20.0	0.0290137	9.9825	563.2	
10	20.28	29.6	23.3203610	9.9366.1	4683.05	0.04	20.0	0.0199681	4.4607	81.2	

$$xc = 600.389 \quad yc = 388.859 \quad Rc = 261.96 \quad Fs = 1.444$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.99	-7.3	26.2199513	39177.61	4588.81	0.02	18.0	0.0207635	0.0503	45.7	
2	11.64	-3.2	11.7213709	79830.65	4915.32	0.04	20.0	0.0217271	4.4579	89.4	
3	18.82	0.1	18.8515279	6.23702.86	11851.43	0.04	20.0	0.0514939	7.1349	93.8	
4	18.82	4.3	18.9676780	5.31131.9	15565.95	0.04	20.0	0.0665751	1.1173	017.7	
5	18.82	8.4	19.0784342	1.36079.73	18039.87	0.04	20.0	0.0763630	8.8197	728.8	
6	18.82	12.6	19.3836640	5.38485.46	19242.73	0.04	20.0	0.0810434	9.2095	96.9	
7	27.08	17.8	28.41183335	0.54433.41	27216.71	0.04	20.0	0.01147478	0.0297	082.0	
8	10.55	22.2	11.4397155	8.18269.17	9134.58	0.04	20.0	0.0387766	8.8100	886.2	
9	18.82	25.7	20.9505684	9.23261.51	11630.75	0.04	20.0	0.0498035	0.1313	06.2	
10	18.82	30.4	21.8180345	3.8295.89	4147.94	0.04	20.0	0.0179057	8.5117	0.6	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 37 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 375.314 \quad Rc = 228.394 \quad Fs = 1.414$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	8.28	2.9	8.313346.63	613.95	306.97	0.02	18.0	0.013151.2	4193.3		
2	8.28	5.0	8.336577.6	1682.57	841.28	0.02	18.0	0.035894.9	9420.7		
3	8.28	7.1	8.355154.512537.11	1268.55	0.02	18.0	0.053895.013560.0				
4	8.28	9.2	8.469689.09	3205.7	1602.85	0.04	20.0	0.067408.019717.2			
5	8.28	11.3	8.480528.763704.32	1852.16	0.04	20.0	0.077652.922369.2				
6	8.28	13.4	8.585830.3	3948.19	1974.1	0.04	20.0	0.082594.923660.4			
7	8.28	15.6	8.685455.423930.95	1965.48	0.04	20.0	0.082144.123567.8				
8	9.57	17.9	10.190702.024172.29	2086.15	0.04	20.0	0.087154.025269.2				
9	6.99	20.1	7.447281.7	2174.96	1087.48	0.04	20.0	0.045310.513765.2			
10	8.28	22.1	8.920572.81	946.35	473.17	0.02	18.0	0.019842.0	5822.0		

$$xc = 637.706 \quad yc = 388.859 \quad Rc = 242.666 \quad Fs = 1.596$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.43	-1.8	11.435625.431638.77	819.38	0.02	18.0	0.035911.5	8743.2			
2	11.43	0.9	11.498436.89	4528.1	2264.05	0.04	20.0	0.098037.325219.9			
3	11.43	3.6	11.5157656.27252.19	3626.09	0.04	20.0	0.0155535.938336.1				
4	11.43	6.4	11.5203856.09377.38	4688.69	0.04	20.0	0.0199725.148423.9				
5	11.43	9.1	11.6236871.010896.06	5448.03	0.04	20.0	0.0230996.555573.1				
6	12.31	11.9	12.6276519.412719.89	6359.95	0.04	20.0	0.0268998.864488.6				
7	10.56	14.7	10.9223309.210272.22	5136.11	0.04	20.0	0.0217158.152252.3				
8	11.43	17.4	12.0190809.98777.26	4388.63	0.04	20.0	0.0185747.745356.6				
9	11.43	20.3	12.2123224.05668.31	2834.15	0.04	20.0	0.0120114.030442.4				
10	11.43	23.2	12.442201.371941.26	970.63	0.02	18.0	0.041611.610028.5				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 38 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 656.364 \quad yc = 375.314 \quad Rc = 229.874 \quad Fs = 1.749$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.3	-5.6	13.459573.88	2740.4	1370.2	0.02	18.0	0.061114.112877.6			
2	13.3	-2.3	13.3171846.47904.93	3952.47	0.04	20.0	0.0173518.939142.2				
3	13.3	1.1	13.3270615.712448.32	6224.16	0.04	20.0	0.0269564.859122.2				
4	13.3	4.4	13.3347885.516002.73	8001.37	0.04	20.0	0.0343199.174449.9				
5	13.43	7.7	13.5407627.118750.85	9375.42	0.04	20.0	0.0399656.186244.5				
6	13.17	11.1	13.4403522.418562.03	9281.02	0.04	20.0	0.0394511.285143.9				
7	13.3	14.5	13.7358703.416500.36	8250.18	0.04	20.0	0.0350812.476124.7				
8	13.3	17.9	14.0286038.313157.76	6578.88	0.04	20.0	0.0280710.561595.8				
9	13.3	21.5	14.3188410.68666.89	4333.44	0.04	20.0	0.0185951.141952.7				
10	13.3	25.1	14.764279.482956.86	1478.43	0.02	18.0	0.064569.113670.1				

$$xc = 675.023 \quad yc = 388.859 \quad Rc = 260.022 \quad Fs = 1.943$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.58	-14.4	23.3253622.111666.62	5833.31	0.04	20.0	0.0276364.256554.3				
2	22.58	-9.3	22.9751663.634576.5317288.26	0.04	20.0	0.0786608.6152023.4					
3	22.58	-4.3	22.61152799.053028.7426514.37	0.04	20.0	0.01172872.0224313.4					
4	27.13	1.2	27.11785500.082133.0141066.5	0.04	20.0	0.01778826.0338720.7					
5	18.02	6.2	18.11294764.059559.1329779.56	0.04	20.0	0.01276046.0242707.2					
6	22.58	10.7	23.01570220.072230.1336115.06	0.04	20.0	0.01542526.0293611.1					
7	22.58	15.8	23.51419470.065295.6232647.81	0.04	20.0	0.01399733.0266969.7					
8	22.58	21.1	24.21164086.053547.9326773.97	0.04	20.0	0.01161802.0222560.5					
9	22.58	26.5	25.2793925.436520.5718260.28	0.04	20.0	0.0809131.1156726.4					
10	22.58	32.3	26.7293426.813497.636748.82	0.04	20.0	0.0307199.063026.3					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 39 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 375.314 \quad Rc = 244.286 \quad Fs=2.10$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.18	-16.1	23.1264631.212173.03	6086.52	0.04	20.0	0.0291334.454888.0				
2	22.18	-10.8	22.6775664.435680.5617840.28	0.04	20.0	0.0817311.5145945.2					
3	22.18	-5.5	22.31187467.054623.4827311.74	0.04	20.0	0.01213631.0214573.2					
4	12.62	-1.4	12.6821509.037789.4118894.71	0.04	20.0	0.0825326.8145438.4					
5	31.75	3.8	31.82242793.0103168.551584.24	0.04	20.0	0.02221723.0391095.3					
6	22.18	10.2	22.51532424.070491.535245.75	0.04	20.0	0.01509198.0265844.5					
7	22.18	15.5	23.01394718.064157.0232078.51	0.04	20.0	0.01379899.0243528.9					
8	22.18	21.0	23.81151774.052981.6126490.8	0.04	20.0	0.01155217.0204731.5					
9	22.18	26.7	24.8793010.836478.5 18239.25	0.04	20.0	0.0814403.9145870.9					
10	22.18	32.7	26.4301879.613886.46 6943.23	0.04	20.0	0.0319990.260478.8					

$$xc = 712.339 \quad yc = 388.859 \quad Rc = 252.224 \quad Fs=2.302$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.44	-15.5	22.2242718.711165.06 5582.53	0.04	20.0	0.0264544.345691.5					
2	21.44	-10.5	21.8711933.832748.9616374.48	0.04	20.0	0.0746604.8121831.1					
3	16.83	-6.1	16.9830343.738195.81 19097.9	0.04	20.0	0.0849713.3137286.0					
4	26.04	-1.2	26.01544798.071060.7335530.36	0.04	20.0	0.01550415.0249656.5					
5	21.44	4.2	21.51345050.061872.2830936.14	0.04	20.0	0.01332937.0214480.4					
6	21.44	9.1	21.71324164.060911.5630455.78	0.04	20.0	0.01307331.0210469.5					
7	21.44	14.1	22.11217909.056023.7928011.9	0.04	20.0	0.01206811.0194644.5					
8	21.44	19.2	22.71021558.046991.6623495.83	0.04	20.0	0.01023877.0165824.8					
9	21.44	24.4	23.5727590.633469.1716734.58	0.04	20.0	0.0743831.4121695.3					
10	21.44	29.9	24.7304655.114014.13 7007.07	0.04	20.0	0.0319894.154874.3					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 40 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 730.998 \quad yc = 375.314 \quad Rc = 236.486 \quad Fs=2.563$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.83	-17.3	21.8247381.011379.52	5689.76	0.04	20.0	0.0272244.742060.6				
2	22.91	-11.8	23.4814605.537471.8518735.93	0.04	20.0	0.0858627.5125570.6					
3	18.74	-6.7	18.9950192.843708.8721854.44	0.04	20.0	0.0973372.9141154.7					
4	20.83	-1.9	20.81203136.055344.2727672.13	0.04	20.0	0.01209613.0175005.8					
5	20.83	3.2	20.91279567.058860.0729430.03	0.04	20.0	0.01271389.0183780.5					
6	20.83	8.2	21.01275246.058661.2929330.65	0.04	20.0	0.01262120.0182493.4					
7	20.83	13.4	21.41188005.054648.2127324.1	0.04	20.0	0.01180471.0170956.7					
8	20.83	18.6	22.01013423.046617.4523308.72	0.04	20.0	0.01019503.0148189.8					
9	18.12	23.7	19.8665561.030615.81	15307.9	0.04	20.0	0.0682911.9100055.9				
10	23.53	29.4	27.0361508.416629.38	8314.69	0.04	20.0	0.0381915.858441.5				

$$xc = 749.656 \quad yc = 388.859 \quad Rc = 230.124 \quad Fs=2.796$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.12	-11.0	14.456346.092591.92	1295.96	0.02	18.0	0.058947.5	7878.9			
2	14.12	-7.5	14.2161527.97430.28	3715.14	0.04	20.0	0.0166019.623647.8				
3	14.12	-3.9	14.2243071.611181.29	5590.65	0.04	20.0	0.0245997.034045.8				
4	14.12	-0.4	14.1298724.313741.32	6870.66	0.04	20.0	0.0299036.340945.1				
5	14.12	3.1	14.1328657.815118.26	7559.13	0.04	20.0	0.0326729.644552.8				
6	14.12	6.6	14.2332765.115307.2	7653.6	0.04	20.0	0.0329780.244960.5				
7	14.12	10.2	14.3310639.314289.41	7144.7	0.04	20.0	0.0308039.242149.3				
8	14.12	13.8	14.5261541.412030.9	6015.45	0.04	20.0	0.0260465.335984.2				
9	14.12	17.4	14.8184368.48480.95	4240.47	0.04	20.0	0.0185015.226200.3				
10	14.12	21.2	15.177578.073568.59	1784.3	0.04	20.0	0.078397.612370.8				



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 41 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 768.315 \quad yc = 375.314 \quad Rc = 211.378 \quad Fs=2.853$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.15	-8.9	11.330472.681401.74	700.87	0.02	18.0	0.031534.3	4383.3			
2	11.15	-5.9	11.285541.643934.92	1967.46	0.04	20.0	0.087300.812710.7				
3	11.15	-2.8	11.2130196.15989.02	2994.51	0.04	20.0	0.0131264.618313.6				
4	11.15	0.2	11.2161007.57406.35	3703.17	0.04	20.0	0.0160936.922097.5				
5	11.15	3.2	11.2178026.38189.21	4094.6	0.04	20.0	0.0176951.724143.3				
6	11.15	6.2	11.2181181.88334.36	4167.18	0.04	20.0	0.0179583.824486.0				
7	11.15	9.3	11.3170297.47833.68	3916.84	0.04	20.0	0.0168779.723119.0				
8	11.15	12.4	11.4145061.06672.81	3336.4	0.04	20.0	0.0144126.319989.9				
9	11.15	15.5	11.6105021.7	4831.0	2415.5	0.04	20.0	0.0104825.214997.3			
10	11.15	18.7	11.846355.862132.37	1066.19	0.02	18.0	0.046847.1	6161.2			

$$xc = 395.147 \quad yc = 402.405 \quad Rc = 311.958 \quad Fs=2.087$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.31	-11.1	22.7152097.56996.48	3498.24	0.04	20.0	0.0161400.032510.6				
2	22.31	-7.0	22.5437511.820125.5410062.77	0.04	20.0	0.0450909.282958.4					
3	22.31	-2.9	22.3646395.129734.1714867.09	0.04	20.0	0.0653087.6118196.9					
4	22.31	1.2	22.3780157.335887.2417943.62	0.04	20.0	0.0777295.1139857.5					
5	20.91	5.2	21.0785628.136138.8918069.45	0.04	20.0	0.0776156.4139405.8					
6	23.71	9.4	24.0904202.641593.3220796.66	0.04	20.0	0.0890054.1159854.7					
7	22.31	13.7	23.0806374.737093.2318546.62	0.04	20.0	0.0795089.1143085.1					
8	22.31	17.9	23.4680514.031303.6415651.82	0.04	20.0	0.0675681.4122351.1					
9	22.31	22.3	24.1467684.521513.4910756.74	0.04	20.0	0.0469991.886601.1					
10	22.31	26.8	25.0168330.4	7743.2	3871.6	0.02	18.0	0.0173734.129448.4			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 42 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 413.805 \quad yc = 415.95 \quad Rc = 325.958 \quad Fs=2.015$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.53	-11.9	25.1196443	29036.39	4518.19	0.04	20.0	0.0209854	742889.8		
2	24.53	-7.6	24.7557528	125646.29	12823.15	0.04	20.0	0.0576895	8109132.3		
3	24.53	-3.2	24.6820795	037756.57	18878.29	0.04	20.0	0.0830820	8154970.0		
4	26.24	1.2	26.21061426	048825.6	24412.8	0.04	20.0	0.01057412	0196236.8		
5	22.83	5.6	22.91014126	046649.8	23324.9	0.04	20.0	0.01000862	0185364.0		
6	24.53	9.8	24.91123961	051702.21	25851.1	0.04	20.0	0.01105268	0204614.1		
7	24.53	14.2	25.31061397	048824.27	24412.14	0.04	20.0	0.01045758	0193944.8		
8	24.53	18.7	25.9894236	941134.89	20567.45	0.04	20.0	0.0888005	6165564.0		
9	24.53	23.3	26.7614898	528285.33	14142.67	0.04	20.0	0.0619083	2117144.0		
10	24.53	28.1	27.8220708	310152.58	5076.29	0.02	18.0	0.0229015	739694.9		

$$xc = 432.463 \quad yc = 402.405 \quad Rc = 291.275 \quad Fs=1.728$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.79	0.2	0.8	63.29	2.91	1.46	0.02	18.0	0.0	62.9	103.0
2	17.6	2.0	17.644300	932037.84	1018.92	0.02	18.0	0.043962	610307.9		
3	9.2	4.7	9.247421	532181.39	1090.7	0.02	18.0	0.046773	19865.3		
4	9.2	6.5	9.357961	022666.21	1333.1	0.02	18.0	0.056993	311790.9		
5	9.2	8.3	9.363465	472919.41	1459.71	0.02	18.0	0.062270	612787.9		
6	9.2	10.1	9.363871	352938.08	1469.04	0.02	18.0	0.062585	912852.8		
7	9.2	12.0	9.459099	342718.57	1359.29	0.02	18.0	0.057874	611973.5		
8	9.2	13.8	9.549049	522256.28	1128.14	0.02	18.0	0.048021	110128.4		
9	9.2	15.7	9.633603	721545.77	772.89	0.02	18.0	0.032858	77286.1		
10	9.2	17.6	9.612619	47580.5	290.25	0.02	18.0	0.012159	53403.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 43 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 451.122 \quad yc = 415.95 \quad Rc = 305.366 \quad Fs = 1.849$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.91	-3.3	0.9	130.34	6.0	3.0	0.02	18.0	0.0	137.6	122.3
2	25.68	-0.8	25.71	29464.05	955.35	2977.67	0.02	18.0	0.01	29836.12	595.7
3	13.29	2.9	13.31	42827.06	570.04	3285.02	0.04	20.0	0.01	41472.53	730.1
4	13.29	5.4	13.31	76506.18	119.28	4059.64	0.04	20.0	0.01	73802.03	7103.6
5	13.29	7.9	13.41	93816.68	915.56	4457.78	0.04	20.0	0.01	90086.44	324.2
6	13.29	10.4	13.51	94509.78	947.44	4473.72	0.04	20.0	0.01	90345.24	395.8
7	13.29	12.9	13.61	78224.08	198.31	4099.15	0.04	20.0	0.01	74305.73	7265.1
8	13.29	15.5	13.81	44488.46	646.47	3323.23	0.04	20.0	0.01	41396.53	820.3
9	13.29	18.1	14.09	8508.77	4531.4	2265.7	0.02	18.0	0.09	7544.31	8655.5
10	13.29	20.8	14.23	7149.36	1708.87	854.44	0.02	18.0	0.03	6701.6	7987.7

$$xc = 469.78 \quad yc = 402.405 \quad Rc = 313.808 \quad Fs = 1.781$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	29.3	-15.4	30.43	48348.71	6024.04	8012.02	0.04	20.0	0.03	4721.58	5429.6
2	32.6	-9.6	33.11	096802.05	452.92	5226.45	0.04	20.0	0.01	153234.02	43055.3
3	25.99	-4.2	26.11	283626.05	9046.81	29523.4	0.04	20.0	0.01	306910.02	72883.8
4	29.3	0.9	29.31	771803.08	1502.92	40751.46	0.04	20.0	0.01	766315.03	67477.6
5	29.3	6.3	29.51	952341.08	9807.67	44903.84	0.04	20.0	0.01	920298.03	98978.4
6	29.3	11.7	29.91	961169.09	213.79	45106.89	0.04	20.0	0.01	920144.03	99046.4
7	32.12	17.5	33.71	948358.08	9624.45	44812.23	0.04	20.0	0.01	916984.03	99244.0
8	26.48	23.2	28.81	336684.06	1487.45	30743.73	0.04	20.0	0.01	334603.02	79158.2
9	29.3	28.9	33.51	080732.04	9713.68	24856.84	0.04	20.0	0.01	105498.02	33391.2
10	29.3	35.2	35.94	15693.81	9121.92	9560.96	0.04	20.0	0.04	39700.99	7892.7

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 44 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 488.439 \quad yc = 415.95 \quad Rc = 306.476 \quad Fs = 1.679$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	19.92	-6.6	20.1108909	09.85009	85 2504.93	0.02	18.0	0.0112401	824136.3		
2	19.92	-2.8	19.9308831	014206.23	7103.11	0.04	20.0	0.0312776	372541.9		
3	19.92	0.9	19.9458164	721075.58	10537.79	0.04	20.0	0.0456576	7103704.0		
4	19.92	4.6	20.0553247	025449.36	12724.68	0.04	20.0	0.0545090	7122903.4		
5	19.92	8.4	20.1593558	127303.67	13651.84	0.04	20.0	0.0580707	1130658.7		
6	19.92	12.2	20.4577855	726581.36	13290.68	0.04	20.0	0.0563742	4127039.7		
7	16.98	15.7	17.6435935	520053.03	10026.52	0.04	20.0	0.0425726	496472.7		
8	22.87	19.7	24.3488853	122487.24	1243.62	0.04	20.0	0.0479882	1109793.1		
9	19.92	24.0	21.8296890	413656.96	6828.48	0.04	20.0	0.0294239	968966.1		
10	19.92	28.1	22.6112290	35165.35	2582.68	0.02	18.0	0.0114080	224762.8		

$$xc = 507.097 \quad yc = 402.405 \quad Rc = 293.495 \quad Fs = 1.60$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.76	-8.7	22.0147756	36796.79	3398.39	0.02	18.0	0.0154712	134168.0		
2	21.76	-4.4	21.8422258	819423.91	9711.95	0.04	20.0	0.0431547	7103620.3		
3	21.76	-0.2	21.8623717	328691.0	14345.5	0.04	20.0	0.0624167	1147419.6		
4	21.76	4.1	21.8751393	934564.12	17282.06	0.04	20.0	0.0740893	4173985.5		
5	21.76	8.4	22.0804724	737017.34	18508.67	0.04	20.0	0.0786280	4184354.3		
6	19.4	12.4	19.9700185	932208.55	16104.28	0.04	20.0	0.0681715	6160038.8		
7	24.11	16.8	25.2818321	137642.77	18821.38	0.04	20.0	0.0798128	7187849.4		
8	21.76	21.6	23.4641542	929510.97	14755.49	0.04	20.0	0.0630841	1149348.0		
9	21.76	26.2	24.3455387	120947.81	10473.9	0.04	20.0	0.0453827	6109296.8		
10	21.76	31.1	25.4166816	17673.54	3836.77	0.04	20.0	0.0167930	444550.4		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 45 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 525.755 \quad yc = 415.95 \quad Rc = 307.586 \quad Fs = 1.515$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.37	-10.1	24.7201248.99257.45	4628.73	0.04	20.0	0.0214699.858130.5				
2	24.37	-5.5	24.5573728.926391.5313195.76	0.04	20.0	0.0590569.4148385.7					
3	24.37	-0.9	24.4845923.438912.4819456.24	0.04	20.0	0.0849418.8210561.9					
4	24.37	3.6	24.41019165.046881.5923440.79	0.04	20.0	0.01005496.0248081.3					
5	22.64	8.0	22.91014594.046671.3323335.67	0.04	20.0	0.0990222.5244001.0					
6	26.09	12.6	26.71209659.055644.3127822.16	0.04	20.0	0.01174803.0289382.7					
7	24.37	17.5	25.61112015.051152.7125576.35	0.04	20.0	0.01081904.0266743.3					
8	24.37	22.4	26.3978973.545032.7822516.39	0.04	20.0	0.0960720.7237831.3					
9	24.37	27.4	27.4720721.833153.2	16576.6	0.04	20.0	0.0718431.8179894.2				
10	24.37	32.6	28.9320924.014762.5	7381.25	0.04	20.0	0.0325992.385980.0				

$$xc = 544.414 \quad yc = 402.405 \quad Rc = 273.552 \quad Fs = 1.339$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.36	0.6	12.423550.881083.34	541.67	0.02	18.0	0.023478.1	7546.2			
2	12.36	3.2	12.461066.1	2809.04	1404.52	0.02	18.0	0.060251.316475.4			
3	14.37	6.0	14.4101317.04660.58	2330.29	0.02	18.0	0.099129.626221.4				
4	10.36	8.6	10.590579.324166.65	2083.32	0.02	18.0	0.088141.622960.9				
5	12.36	11.0	12.6128813.1	5925.4	2962.7	0.02	18.0	0.0124963.732215.8			
6	12.36	13.6	12.7139722.46427.23	3213.62	0.04	20.0	0.0134012.440241.7				
7	12.36	16.3	12.9135934.56252.99	3126.49	0.04	20.0	0.0130152.239239.9				
8	12.36	19.0	13.1115733.25323.73	2661.87	0.04	20.0	0.0110694.834007.7				
9	12.36	21.8	13.381207.1	3735.53	1867.76	0.02	18.0	0.078996.721165.3			
10	12.36	24.6	13.631271.371438.48	719.24	0.02	18.0	0.030117.3	9342.5			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 46 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 563.072 \quad yc = 415.95 \quad Rc = 287.733 \quad Fs = 1.333$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	16.21	-2.6	16.254757	0.062518	83	1259.41	0.02	18.0	0.055551	2.15971	0
2	22.06	1.2	22.1213517	3.982179	4910.9	0.02	18.0	0.0212432	32.655078	1.1	0
3	10.35	4.4	10.4148071	1.681127	3405.64	0.04	20.0	0.0145215	44.2755	0	0
4	16.21	7.1	16.3302029	7.1389337	6946.68	0.04	20.0	0.0293792	58.5098	4.4	0
5	16.21	10.3	16.5358691	9.1649983	8249.91	0.04	20.0	0.0346460	299.518	5.5	0
6	16.21	13.6	16.7382693	2.1760389	8801.94	0.04	20.0	0.0368197	0.105513	0	0
7	16.21	17.0	16.9372800	2.1714881	8574.4	0.04	20.0	0.0358369	1.102910	9.9	0
8	16.21	20.4	17.3327345	0.1505787	7528.94	0.04	20.0	0.0315306	7.91259	2.2	0
9	16.21	23.9	17.7244106	0.1122888	5614.44	0.04	20.0	0.0236073	9.96976	4.4	0
10	16.21	27.5	18.3110845	8.509891	2549.45	0.04	20.0	0.0106907	6.34663	3.3	0

$$xc = 581.731 \quad yc = 402.405 \quad Rc = 274.847 \quad Fs = 1.371$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	17.67	-5.5	17.880179	4.9368826	1844.13	0.02	18.0	0.082684	0.22189	1.1	0
2	15.74	-2.0	15.7183568	4.844415	4222.07	0.02	18.0	0.0185296	4.46219	6.6	0
3	19.6	1.7	19.6386344	9.1777187	8885.93	0.04	20.0	0.0383351	4.10751	1.6	0
4	17.67	5.6	17.8481202	3.221353	11067.65	0.04	20.0	0.0470776	3.13018	3.4	0
5	17.67	9.3	17.9563288	8.2591128	12955.64	0.04	20.0	0.0546190	4.15025	1.8	0
6	17.67	13.1	18.1601467	6.276675	113833.75	0.04	20.0	0.0580460	1.15941	9.4	0
7	17.67	16.9	18.5593987	3.2732342	13661.71	0.04	20.0	0.0572931	8.15751	5.5	0
8	23.72	21.5	25.5703074	4.3234142	16170.71	0.04	20.0	0.0681390	1.18836	2.5	0
9	11.62	25.5	12.9244951	8.1126778	5633.89	0.04	20.0	0.0239256	4.67283	6.6	0
10	17.67	28.9	20.2145203	8.667938	3339.69	0.04	20.0	0.0141818	6.43545	8.8	0

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 47 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 600.389 \quad yc = 415.95 \quad Rc = 289.028 \quad Fs = 1.473$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.11	-6.8	27.3209	112.296	19.16	4809.58	0.02	18.0	0.0216672	3.3515	15.6
2	12.57	-2.8	12.6234	854.010	803.29	5401.64	0.04	20.0	0.0238178	3.3622	287.1
3	19.84	0.4	19.8557	398.625	640.341	2820.17	0.04	20.0	0.0556372	9.1429	04.0
4	19.84	4.4	19.9734	344.133	779.831	6889.91	0.04	20.0	0.0722455	6.1839	68.8
5	19.84	8.3	20.1853	961.539	282.231	9641.12	0.04	20.0	0.0832172	7.2111	128.3
6	19.84	12.3	20.3914	916.942	2086.182	1043.09	0.04	20.0	0.0887377	4.2248	42.5
7	22.06	16.6	23.0101	15137.046	696.323	348.15	0.04	20.0	0.0984865	8.2496	74.6
8	17.62	20.8	18.8697	988.132	107.451	6053.73	0.04	20.0	0.0680742	3.1733	73.2
9	19.84	24.8	21.9532	211.224	481.711	2240.86	0.04	20.0	0.0523727	3.1353	82.7
10	19.84	29.2	22.7189	471.087	15.66	4357.83	0.04	20.0	0.0187696	4.4525	67.1

$$xc = 619.047 \quad yc = 402.405 \quad Rc = 255.459 \quad Fs = 1.448$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	8.97	2.7	9.0159	20.18	732.33	366.16	0.02	18.0	0.015714	1.4766	8
2	8.97	4.7	9.0438	25.952	2015.99	1008.0	0.02	18.0	0.043076	7.1091	10.1
3	8.97	6.7	9.0664	51.323	3056.76	1528.38	0.02	18.0	0.065043	6.1584	4.1
4	8.97	8.8	9.1858	44.1	3948.83	1974.41	0.04	20.0	0.083247	3.3234	34.1
5	8.97	10.8	9.1999	37.874	597.14	2298.57	0.04	20.0	0.096625	8.2681	2.7
6	8.97	12.9	9.2107	772.349	57.53	2478.76	0.04	20.0	0.0103997	1.1286	84.8
7	8.97	14.9	9.3109	198.750	23.14	2511.57	0.04	20.0	0.0105273	9.2902	8.5
8	4.68	16.5	4.9552	97.062	543.67	1271.83	0.04	20.0	0.053303	3.1474	9.3
9	13.26	18.6	14.0111	1579.351	32.65	2566.32	0.04	20.0	0.0107349	0.3085	0.1
10	8.97	21.3	9.6227	90.211	048.35	524.17	0.02	18.0	0.022015	7.6270	2

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 48 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 637.706 \quad yc = 415.95 \quad Rc = 269.731 \quad Fs = 1.64$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.16	-1.5	12.239645	421823.69	911.84	0.02	18.0	0.039907	6.9387.4		
2	12.16	1.1	12.2110590	35087.15	2543.58	0.04	20.0	0.0110098	4.27393.1		
3	12.16	3.7	12.2177198	98151.15	4075.58	0.04	20.0	0.0174891	3.41774.0		
4	12.16	6.2	12.2229707	510566.54	5283.27	0.04	20.0	0.0225280	4.452965.3		
5	12.16	8.9	12.3267948	812325.65	6162.82	0.04	20.0	0.0261668	2.61056.6		
6	8.69	11.1	8.9206741	3.9510.1	4755.05	0.04	20.0	0.0201487	6.646863.8		
7	15.63	13.8	16.1344458	315845.08	7922.54	0.04	20.0	0.0335449	6.78348.4		
8	12.16	16.8	12.7204722	89417.25	4708.62	0.04	20.0	0.0199550	9.947371.6		
9	12.16	19.5	12.9132217	96082.02	3041.01	0.04	20.0	0.0129020	7.31772.0		
10	12.16	22.3	13.145195	842079.01	1039.5	0.02	18.0	0.044571	7.10430.6		

$$xc = 656.364 \quad yc = 402.405 \quad Rc = 255.819 \quad Fs = 1.791$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.48	-4.4	13.557502	682645.12	1322.56	0.02	18.0	0.058604	1.112142.3		
2	13.48	-1.4	13.5165992	17635.64	3817.82	0.04	20.0	0.0166920	1.136935.4		
3	13.48	1.7	13.5262600	712079.63	6039.82	0.04	20.0	0.0261090	7.756074.4		
4	13.48	4.7	13.5339061	615596.83	7798.42	0.04	20.0	0.0334385	3.70979.1		
5	10.03	7.3	10.1289597	013321.46	6660.73	0.04	20.0	0.0284262	3.360030.5		
6	16.93	10.4	17.2488180	922456.32	11228.16	0.04	20.0	0.0477809	9.9100951.0		
7	13.48	13.9	13.9337065	115504.99	7752.5	0.04	20.0	0.0329869	2.70141.7		
8	13.48	17.0	14.1267890	612322.97	6161.48	0.04	20.0	0.0262838	9.956566.1		
9	13.48	20.2	14.4175700	38082.21	4041.11	0.04	20.0	0.0173088	8.838385.4		
10	13.48	23.4	14.759954	842757.92	1378.96	0.02	18.0	0.059924	0.12512.8		



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 49 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 675.023 \quad yc = 415.95 \quad Rc = 283.70 \quad Fs = 1.953$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.35	-12.2	22.9226648	2.10425	82.5212	91	0.04	20.0	0.02427	22.8499	09.1
2	22.35	-7.6	22.6678489	2.31210	5.1560	5.25	0.04	20.0	0.07027	41.4135	557.6
3	22.35	-3.1	22.41045274	0.48082	6.2404	1.3	0.04	20.0	0.01057	723.020	1665.7
4	23.13	1.5	23.11379186	0.63442	5.5317	21.28	0.04	20.0	0.01372	841.026	0533.9
5	21.58	6.0	21.71400702	0.64432	2.2732	216.13	0.04	20.0	0.01380	853.026	1733.0
6	22.35	10.5	22.71398841	0.64346	6.6321	173.33	0.04	20.0	0.01374	338.026	0731.1
7	22.35	15.2	23.21259476	0.57935	8.8289	67.94	0.04	20.0	0.01240	938.023	5961.7
8	22.35	19.9	23.81027993	0.47287	6.8236	43.84	0.04	20.0	0.01022	517.019	5389.7
9	22.35	24.8	24.6696827	0.43205	4.0616	027.03	0.04	20.0	0.07045	60.813	6319.8
10	22.35	29.9	25.8254843	0.11722	7.8586	1.39	0.04	20.0	0.02627	35.054	232.9

$$xc = 693.681 \quad yc = 402.405 \quad Rc = 267.962 \quad Fs = 2.114$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.0	-13.8	22.7236919	8.10898	31.5449	16	0.04	20.0	0.02558	31.6483	21.9
2	22.0	-9.0	22.3701439	3.32266	2.2116	133.1	0.04	20.0	0.07307	57.1129	999.8
3	31.19	-3.3	31.21626586	0.74822	9.6374	11.48	0.04	20.0	0.01645	783.028	9200.6
4	12.81	1.4	12.8801268	9.36858	3.7184	29.18	0.04	20.0	0.07980	11.4139	787.5
5	22.0	5.2	22.11405670	0.64660	8.3323	30.42	0.04	20.0	0.01389	393.024	3337.2
6	22.0	9.9	22.31367484	0.62904	2.8314	52.14	0.04	20.0	0.01346	953.023	6078.0
7	22.0	14.7	22.71241847	0.57124	9.5285	62.47	0.04	20.0	0.01227	393.021	5576.5
8	22.0	19.7	23.41023763	0.47093	0.8235	46.54	0.04	20.0	0.01022	707.018	0459.8
9	22.0	24.8	24.2705471	0.93245	1.7116	225.85	0.04	20.0	0.07178	00.312	8139.1
10	22.0	30.1	25.4275357	0.11266	6.4263	33.21	0.04	20.0	0.02868	15.054	178.7

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 50 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 712.339 \quad yc = 415.95 \quad Rc = 276.281 \quad Fs = 2.321$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.25	-13.4	21.8218703	710060.37	5030.19	0.04	20.0	0.0234444	140520.8		
2	21.25	-8.9	21.5647413	229781.01	14890.5	0.04	20.0	0.0672333	8109118.9		
3	13.68	-5.2	13.7607039	827923.83	13961.91	0.04	20.0	0.0618673	899367.0		
4	28.81	-0.8	28.8153519	070618.74	35309.37	0.04	20.0	0.0153885	60246239.2		
5	21.25	4.4	21.3120304	2055339.91	27669.96	0.04	20.0	0.0119196	50190557.0		
6	21.25	8.8	21.5118325	054429.52	7214.75	0.04	20.0	0.0116840	90186896.9		
7	21.25	13.3	21.8108779	4050038.51	25019.25	0.04	20.0	0.0107699	20172621.0		
8	21.25	17.9	22.3913094	342002.34	21001.17	0.04	20.0	0.0912101	1146853.2		
9	21.25	22.6	23.0653627	430066.86	15033.43	0.04	20.0	0.0663066	1107925.9		
10	21.25	27.5	23.9270060	012422.76	6211.38	0.04	20.0	0.0279453	347940.8		

$$xc = 730.998 \quad yc = 402.405 \quad Rc = 260.566 \quad Fs = 2.574$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.7	-15.0	21.4223826	610296.02	5148.01	0.04	20.0	0.0241841	837526.8		
2	20.19	-10.4	20.5635707	829242.56	14621.28	0.04	20.0	0.0664229	697111.0		
3	21.21	-5.8	21.3958926	644110.63	22055.31	0.04	20.0	0.0978326	4141645.9		
4	20.7	-1.2	20.7107807	5049591.45	24795.72	0.04	20.0	0.0108157	20156149.2		
5	20.7	3.4	20.7114638	4052733.67	26366.83	0.04	20.0	0.0113871	40164233.8		
6	20.7	7.9	20.9114270	7052564.52	26282.25	0.04	20.0	0.0113101	0163170.0		
7	20.7	12.6	21.2106530	8049004.16	24502.08	0.04	20.0	0.0105739	90152809.5		
8	20.7	17.3	21.7910849	441899.07	20949.54	0.04	20.0	0.0912731	6132427.1		
9	16.28	21.6	17.5553285	825451.15	12725.57	0.04	20.0	0.0562502	982257.7		
10	25.12	26.6	28.1369702	717006.32	8503.16	0.04	20.0	0.0384117	558679.7		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 51 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 749.656 \quad yc = 415.95 \quad Rc = 254.832 \quad Fs = 2.818$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.37	-8.6	13.542833	33.451970	34	985.17	0.02	18.0	0.044237	1	6061.2
2	13.37	-5.6	13.412118	33.15574	42	2787.21	0.04	20.0	0.012349	8	917860.2
3	13.37	-2.6	13.418343	35.48438	03	4219.01	0.04	20.0	0.018476	6	225767.1
4	13.37	0.5	13.422590	4.41039	1.6	5195.8	0.04	20.0	0.022566	4	131048.2
5	13.37	3.5	13.424864	4.91143	7.67	5718.83	0.04	20.0	0.024705	2	433814.4
6	13.37	6.5	13.525154	9.11157	1.26	5785.63	0.04	20.0	0.024929	1	334112.3
7	13.37	9.5	13.623434	4.01077	9.83	5389.91	0.04	20.0	0.023226	2	831927.0
8	13.37	12.6	13.719657	5.09042	4.45	4521.23	0.04	20.0	0.019534	7	927178.9
9	13.37	15.7	13.913758	0.26328	6.69	3164.34	0.04	20.0	0.013736	7	419716.1
10	13.37	18.8	14.156475	4.45259	7.87	1298.94	0.04	20.0	0.056498	4	9304.1

$$xc = 768.315 \quad yc = 402.405 \quad Rc = 236.12 \quad Fs = 2.905$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	10.09	-6.1	10.119948	36	917.62	458.81	0.02	18.0	0.020380	6	2978.5
2	10.09	-3.6	10.154257	5	2495.85	1247.92	0.04	20.0	0.054894	6	8270.9
3	10.09	-1.2	10.183547	5.33843	19	1921.59	0.04	20.0	0.083813	9	11892.3
4	10.09	1.3	10.110369	6.44770	03	2385.02	0.04	20.0	0.010340	7	314347.6
5	10.09	3.7	10.111470	2.1	5276.3	2638.15	0.04	20.0	0.011392	7	915668.5
6	10.09	6.2	10.111651	6.55359	76	2679.88	0.04	20.0	0.011548	0	415868.2
7	10.09	8.6	10.210903	5.65015	64	2507.82	0.04	20.0	0.010801	6	714940.7
8	10.09	11.1	10.392102	9.14236	73	2118.37	0.04	20.0	0.091337	0	12861.3
9	10.09	13.6	10.465495	5.5	3012.8	1506.4	0.04	20.0	0.065069	1	9583.3
10	10.09	16.2	10.530417	6.31399	21	699.61	0.02	18.0	0.030471	5	4131.9

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 52 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 395.147 \quad yc = 429.496 \quad Rc = 339.033 \quad Fs=2.064$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.5	-10.5	23.9162490.07474.54	3737.27	0.04	20.0	0.0171683.234908.2				
2	23.5	-6.4	23.6466846.721474.9510737.47	0.04	20.0	0.0479892.389214.5					
3	23.5	-2.5	23.5689202.531703.3115851.66	0.04	20.0	0.0695297.1127177.5					
4	23.5	1.5	23.5830884.638220.6919110.35	0.04	20.0	0.0827193.8150435.6					
5	18.14	5.0	18.2686456.631577.0	15788.5	0.04	20.0	0.0678258.9123144.1				
6	28.85	9.1	29.21120718.051553.0125776.51	0.04	20.0	0.01102961.0200175.6					
7	23.5	13.6	24.2864552.139769.3919884.7	0.04	20.0	0.0851976.6154935.2					
8	23.5	17.7	24.7728928.433530.7116765.35	0.04	20.0	0.0722919.2132270.6					
9	23.5	21.9	25.3500218.923010.0711505.03	0.04	20.0	0.0501617.293371.6					
10	23.5	26.3	26.2180012.48280.57	4140.29	0.02	18.0	0.0185108.731681.7				

$$xc = 413.805 \quad yc = 443.042 \quad Rc = 353.033 \quad Fs=2.00$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.02	-11.2	26.5213095.7	9802.4	4901.2	0.04	20.0	0.0226525.146532.7			
2	26.02	-7.0	26.2603072.427741.3313870.67	0.04	20.0	0.0622034.6118448.8					
3	26.02	-2.7	26.1885690.740741.7720370.89	0.04	20.0	0.0894690.3168037.0					
4	23.95	1.3	24.0973735.844791.8522395.92	0.04	20.0	0.0969776.3181283.3					
5	28.1	5.6	28.21264769.058179.3729089.68	0.04	20.0	0.01248066.0232783.3					
6	26.02	10.0	26.41209775.055649.6427824.82	0.04	20.0	0.01189338.0221734.9					
7	26.02	14.3	26.91134450.052184.726092.35	0.04	20.0	0.01117555.0208757.8					
8	26.02	18.7	27.5943639.843407.4321703.71	0.04	20.0	0.0936770.4175980.8					
9	26.02	23.3	28.3629100.428938.6214469.31	0.04	20.0	0.0632848.9120839.2					
10	26.02	28.0	29.5194805.38961.05	4480.52	0.02	18.0	0.0201604.035700.3				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 53 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 432.463 \quad yc = 429.496 \quad Rc = 318.346 \quad Fs=1.71$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.61	0.2	0.6	37.69	1.73	0.87	0.02	18.0	0.0	37.4	78.2
2	19.46	2.0	19.553222	112448.22	1224.11	0.02	18.0	0.052819	312311.5		
3	10.04	4.7	10.156594	752603.36	1301.68	0.02	18.0	0.055818	511781.3		
4	10.04	6.5	10.169109	793179.05	1589.53	0.02	18.0	0.067951	214089.8		
5	10.04	8.3	10.175633	83479.16	1739.58	0.02	18.0	0.074203	015282.3		
6	10.04	10.2	10.276092	743500.27	1750.13	0.02	18.0	0.074553	415355.1		
7	10.04	12.0	10.370391	723238.02	1619.01	0.02	18.0	0.068926	114293.6		
8	10.04	13.9	10.358411	572686.93	1343.47	0.02	18.0	0.057184	412072.0		
9	10.04	15.7	10.440012	051840.55	920.28	0.02	18.0	0.039131	28652.9		
10	10.04	17.6	10.515025	33691.17	345.58	0.02	18.0	0.014499	03985.5		

$$xc = 451.122 \quad yc = 443.042 \quad Rc = 353.958 \quad Fs=1.813$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	30.08	-13.2	30.932647	2415017.73	7508.87	0.04	20.0	0.035356	1.277784.8		
2	30.08	-8.2	30.490221	5841501.93	20750.96	0.04	20.0	0.093987	5.3195362.9		
3	18.47	-4.3	18.576457	47835170.44	17585.22	0.04	20.0	0.077868	6.2160389.9		
4	41.69	0.6	41.721983	140101122.45	0561.21	0.04	20.0	0.021937	010449530.9		
5	30.08	6.4	30.318155	02083513.14	1756.55	0.04	20.0	0.017858	43.0365144.1		
6	30.08	11.4	30.718271	32084048.06	42024.03	0.04	20.0	0.017900	92.0366087.7		
7	44.15	17.6	46.323538	290108276.15	4138.07	0.04	20.0	0.023185	52.0475613.4		
8	16.01	22.8	17.467171	6130898.94	15449.47	0.04	20.0	0.067037	1.2138391.2		
9	30.08	26.9	33.796147	8544228.01	22114.01	0.04	20.0	0.097503	7.5203156.5		
10	30.08	32.5	35.736504	3.616792.01	8396.0	0.04	20.0	0.037934	2.384013.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 54 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 429.496 \quad Rc = 340.883 \quad Fs = 1.743$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	30.98	-14.5	32.0373710.217190.67	8595.33	0.04	20.0	0.0410048.392988.3				
2	33.98	-8.9	34.41153681.053069.326534.65	0.04	20.0	0.01208638.0260333.8					
3	27.98	-3.7	28.01397831.064300.2132150.11	0.04	20.0	0.01420129.0303046.9					
4	30.98	1.3	31.01899075.087357.4443678.72	0.04	20.0	0.01890482.0401963.2					
5	30.98	6.5	31.22089131.096100.0448050.02	0.04	20.0	0.02052910.0435932.7					
6	30.98	11.8	31.62092040.096233.8248116.91	0.04	20.0	0.02046395.0434679.4					
7	25.09	16.7	26.21559952.071757.7935878.89	0.04	20.0	0.01530832.0325744.0					
8	36.87	22.2	39.81970198.090629.1245314.56	0.04	20.0	0.01957457.0417980.9					
9	30.98	28.5	35.31175028.054051.327025.65	0.04	20.0	0.01197094.0258121.2					
10	30.98	34.7	37.7453312.520852.3810426.19	0.04	20.0	0.0476340.8108134.3					

$$xc = 488.439 \quad yc = 443.042 \quad Rc = 333.547 \quad Fs = 1.637$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.29	-6.0	21.4120433.95539.96	2769.98	0.02	18.0	0.0123994.427234.3				
2	21.29	-2.4	21.3341636.015715.25	7857.63	0.04	20.0	0.0345340.082012.8				
3	21.29	1.3	21.3505428.223249.7	11624.85	0.04	20.0	0.0502940.6117060.8				
4	21.29	4.9	21.4608386.927985.8	13992.9	0.04	20.0	0.0598689.9138374.1				
5	21.29	8.6	21.5649874.229894.2114947.11	0.04	20.0	0.0635082.0146508.0					
6	30.9	13.2	31.7892399.541050.3820525.19	0.04	20.0	0.0869443.8201127.6					
7	11.67	17.0	12.2294471.613545.69	6772.85	0.04	20.0	0.0287461.566915.2				
8	21.29	20.0	22.6479463.122055.3	11027.65	0.04	20.0	0.0470134.9110096.4				
9	21.29	23.9	23.3339574.815620.44	7810.22	0.04	20.0	0.0335827.280381.5				
10	21.29	28.0	24.1126866.65835.86	2917.93	0.02	18.0	0.0128543.328467.5				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 55 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 507.097 \quad yc = 429.496 \quad Rc = 320.566 \quad Fs = 1.563$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.19	-8.1	23.4161914	27448.06	3724.03	0.02	18.0	0.0168931	938114.6		
2	23.19	-3.9	23.2462853	621291.27	10645.63	0.04	20.0	0.0471805	7115815.0		
3	23.19	0.3	23.2682237	831382.94	15691.47	0.04	20.0	0.0681504	7164632.7		
4	23.19	4.4	23.3819805	837711.07	18855.53	0.04	20.0	0.0807284	2193939.7		
5	23.19	8.6	23.5874826	240242.0	20121.0	0.04	20.0	0.0853816	9204825.1		
6	13.49	11.9	13.8499249	822965.49	11482.75	0.04	20.0	0.0485637	0116614.3		
7	32.9	16.2	34.31183233	054428.73	27214.37	0.04	20.0	0.01151703	0276956.8		
8	23.19	21.5	24.9717502	933005.13	16502.57	0.04	20.0	0.0704065	9170330.1		
9	23.19	26.0	25.8509379	823431.47	11715.74	0.04	20.0	0.0506107	7124459.2		
10	23.19	30.8	27.0188286	38661.17	4330.58	0.04	20.0	0.0188824	550876.5		

$$xc = 525.755 \quad yc = 443.042 \quad Rc = 313.506 \quad Fs = 1.471$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	8.39	5.4	8.45021.86	231.01	115.5	0.02	18.0	0.04834.5	2213.7		
2	8.39	7.0	8.512410.44	570.88	285.44	0.02	18.0	0.012037.8	3808.0		
3	12.07	8.8	12.223875.24	1098.26	549.13	0.02	18.0	0.023109.7	6765.4		
4	4.71	10.4	4.810771.84	495.5	247.75	0.02	18.0	0.010410.3	2950.2		
5	8.39	11.6	8.625033.5	1151.54	575.77	0.02	18.0	0.024217.8	6513.7		
6	8.39	13.2	8.629207.71	1343.56	671.78	0.02	18.0	0.028261.6	7413.9		
7	8.39	14.8	8.729605.37	1361.85	680.92	0.02	18.0	0.028638.3	7505.2		
8	8.39	16.4	8.726146.21	1202.73	601.36	0.02	18.0	0.025262.6	6768.8		
9	8.39	18.0	8.818740.96	862.08	431.04	0.02	18.0	0.018022.0	5179.8		
10	8.39	19.6	8.97284.64	335.09	167.55	0.02	18.0	0.06769.2	2705.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 56 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 429.496 \quad Rc = 300.62 \quad Fs=1.334$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.63	0.7	13.628365.0	1304.79	652.4	0.02	18.0	0.028264.8	8927.3		
2	13.63	3.3	13.773397.0	3376.26	1688.13	0.02	18.0	0.072396.4	19678.6		
3	11.71	5.7	11.886905.053997.63	1998.82	0.02	18.0	0.085097.8	22488.7			
4	15.56	8.3	15.7151664.76976.58	3488.29	0.02	18.0	0.0147680.2	38323.8			
5	13.63	11.1	13.9164874.07584.21	3792.1	0.04	20.0	0.0158700.3	47461.2			
6	13.63	13.8	14.0178516.68211.76	4105.88	0.04	20.0	0.0171312.5	50945.0			
7	13.63	16.5	14.2172833.07950.32	3975.16	0.04	20.0	0.0165610.4	49443.2			
8	13.63	19.2	14.4147073.76765.39	3382.7	0.04	20.0	0.0140848.3	42753.5			
9	13.63	22.0	14.7100778.54635.81	2317.91	0.02	18.0	0.098141.0	26105.5			
10	13.63	24.8	15.038746.281782.33	891.16	0.02	18.0	0.037431.3	11367.5			

$$xc = 563.072 \quad yc = 443.042 \quad Rc = 314.801 \quad Fs=1.345$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	17.06	-2.4	17.159249.342725.47	1362.74	0.02	18.0	0.060004.6	17031.4			
2	21.41	1.1	21.4208325.89582.99	4791.49	0.02	18.0	0.0207312.8	53255.6			
3	12.71	4.2	12.7188987.0	8693.4	4346.7	0.04	20.0	0.0185501.9	53979.9		
4	17.06	7.0	17.2337628.015530.89	7765.44	0.04	20.0	0.0328649.1	94029.4			
5	17.06	10.1	17.3402167.918499.72	9249.86	0.04	20.0	0.0388835.0	110355.6			
6	17.06	13.3	17.5431970.119870.63	9935.31	0.04	20.0	0.0416040.8	117775.8			
7	17.06	16.5	17.8425812.419587.37	9793.69	0.04	20.0	0.0409698.5	116138.1			
8	17.06	19.8	18.1382047.217574.17	8787.09	0.04	20.0	0.0368227.2	105017.5			
9	15.99	23.0	17.4282813.213009.41	6504.7	0.04	20.0	0.0273618.1	79194.7			
10	18.13	26.4	20.2132536.46096.67	3048.34	0.04	20.0	0.0127820.0	40602.4			



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 57 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 581.731 \quad yc = 429.496 \quad Rc = 301.915 \quad Fs=1.395$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.6	-5.0	18.786060.323958.78	1979.39	0.02	18.0	0.088442.923274.4				
2	15.44	-1.8	15.4180685.58311.53	4155.77	0.02	18.0	0.0182172.544639.6				
3	21.77	1.7	21.8439779.620229.8610114.93	0.04	20.0	0.0436337.0120074.0					
4	18.6	5.6	18.7527066.724245.0712122.53	0.04	20.0	0.0515903.8139945.8					
5	18.6	9.1	18.8619054.928476.5314238.26	0.04	20.0	0.0600922.1162168.3					
6	18.6	12.7	19.1664445.630564.5	15282.25	0.04	20.0	0.0642106.8172978.3				
7	18.6	16.4	19.4661509.130429.4215214.71	0.04	20.0	0.0638873.6172226.2					
8	17.81	20.0	19.0583436.226838.0613419.03	0.04	20.0	0.0565258.9152896.8					
9	19.4	23.8	21.2460656.621190.2	10595.1	0.04	20.0	0.0449165.7123257.0				
10	18.6	27.9	21.0152745.6	7026.3	3513.15	0.04	20.0	0.0149028.444910.7			

$$xc = 600.389 \quad yc = 443.042 \quad Rc = 295.315 \quad Fs=1.352$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	5.89	8.2	6.03634.43	167.18	83.59	0.02	18.0	0.03426.7	1703.4		
2	5.89	9.3	6.09911.23	455.92	227.96	0.02	18.0	0.09522.7	3170.7		
3	5.89	10.5	6.014854.54	683.31	341.65	0.02	18.0	0.014306.1	4322.9		
4	5.89	11.7	6.018449.72	848.69	424.34	0.02	18.0	0.017773.4	5159.5		
5	5.89	12.8	6.020681.52	951.35	475.68	0.02	18.0	0.019917.6	5678.5		
6	5.89	14.0	6.121529.67	990.36	495.18	0.02	18.0	0.020723.4	5876.5		
7	5.89	15.2	6.120975.68	964.88	482.44	0.02	18.0	0.020174.0	5749.4		
8	5.89	16.4	6.118995.39	873.79	436.89	0.02	18.0	0.018243.8	5291.0		
9	5.89	17.6	6.215564.53	715.97	357.98	0.02	18.0	0.014903.2	4494.2		
10	5.89	18.8	6.28088.61	372.08	186.04	0.02	18.0	0.07608.9	2748.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 58 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 429.496 \quad Rc = 282.523 \quad Fs = 1.513$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.64	2.5	9.618625.62	856.78	428.39	0.02	18.0	0.018414.3	5229.0		
2	9.64	4.5	9.751464.962367.39	1183.69	0.02	18.0	0.050671.712157.8				
3	9.64	6.4	9.778543.893613.02	1806.51	0.04	20.0	0.076673.221005.5				
4	9.64	8.4	9.7103027.24739.25	2369.63	0.04	20.0	0.0100204.226676.7				
5	9.64	10.4	9.8120633.85549.16	2774.58	0.04	20.0	0.0117010.230733.7				
6	9.64	12.4	9.9131241.76037.12	3018.56	0.04	20.0	0.0127084.233174.9				
7	9.57	14.4	9.9133689.46149.71	3074.86	0.04	20.0	0.0129366.533725.8				
8	9.71	16.4	10.1115914.85332.08	2666.04	0.04	20.0	0.0112108.029640.3				
9	9.64	18.5	10.272098.473316.53	1658.27	0.04	20.0	0.069530.719409.8				
10	9.64	20.5	10.325011.031150.51	575.25	0.02	18.0	0.024248.6	6567.0			

$$xc = 637.706 \quad yc = 443.042 \quad Rc = 295.319 \quad Fs = 1.692$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.86	-0.4	11.935020.451610.94	805.47	0.02	18.0	0.035081.1	8138.8			
2	11.85	1.9	11.997238.8	4472.99	2236.49	0.04	20.0	0.096517.323568.2			
3	11.86	4.2	11.9157065.2	7225.0	3612.5	0.04	20.0	0.0154842.236121.7			
4	11.86	6.5	11.9204943.19427.39	4713.69	0.04	20.0	0.0201022.346067.1				
5	16.97	9.3	17.2353290.716251.37	8125.69	0.04	20.0	0.0345162.978320.2				
6	6.74	11.7	6.9144578.3	6650.6	3325.3	0.04	20.0	0.0141028.031967.3			
7	11.86	13.5	12.2224452.810324.83	5162.41	0.04	20.0	0.0218836.449961.0				
8	11.86	15.9	12.3175032.58051.49	4025.75	0.04	20.0	0.0170702.239637.5				
9	11.85	18.3	12.5112289.2	5165.3	2582.65	0.04	20.0	0.0109502.526509.4			
10	11.86	20.7	12.738571.451774.29	887.14	0.02	18.0	0.037918.7	8780.7			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 59 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 656.364 \quad yc = 429.496 \quad Rc = 299.438 \quad Fs = 1.812$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.56	-10.7	23.0217292	292.59995	46 4997.73	0.02	18.0	0.0229464	0.043674	8	
2	22.56	-6.4	22.7647514	729785.681	4892.84	0.04	20.0	0.0667090	0.2138988	1	
3	22.56	-2.0	22.6999352	0.045970.19	22985.1	0.04	20.0	0.01007404	0.0207308	9	
4	22.56	2.3	22.61270430	0.058439.762	9219.88	0.04	20.0	0.01261182	0.0258278	5	
5	14.49	5.8	14.6920671	9.42350.912	1175.45	0.04	20.0	0.0906545	0.8185286	7	
6	30.62	10.2	31.11953214	0.089847.854	4923.93	0.04	20.0	0.01914173	0.0391309	1	
7	22.56	15.4	23.41272348	0.058528.0	29264.0	0.04	20.0	0.01249225	0.0256058	8	
8	22.56	20.0	24.01033289	0.047531.292	3765.65	0.04	20.0	0.01022771	0.0210709	9	
9	22.56	24.6	24.8697097	0.632066.491	6033.24	0.04	20.0	0.0699885	0.7146041	6	
10	22.56	29.5	25.9253460	0.311659.17	5829.59	0.04	20.0	0.0258560	0.657648	2	

$$xc = 675.023 \quad yc = 443.042 \quad Rc = 307.72 \quad Fs = 1.963$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.06	-10.4	22.4204285	29397.12	4698.56	0.02	18.0	0.0214585	0.837812	0	
2	22.06	-6.2	22.2612859	9.28191.561	4095.78	0.04	20.0	0.0629665	0.4121298	1	
3	22.06	-2.1	22.1948254	8.43619.722	1809.86	0.04	20.0	0.0955495	0.9181701	6	
4	19.13	1.8	19.11036219	0.047666.082	3833.04	0.04	20.0	0.01030733	0.0195056	1	
5	24.99	5.9	25.11467164	0.067489.523	3744.76	0.04	20.0	0.01446773	0.0273433	0	
6	22.06	10.3	22.41243578	0.057204.6	28602.3	0.04	20.0	0.01221933	0.0231184	5	
7	22.06	14.5	22.81115713	0.051322.812	5661.4	0.04	20.0	0.01098549	0.0208376	8	
8	22.06	18.8	23.3906930	0.741718.812	20859.41	0.04	20.0	0.0899642	0.7171593	9	
9	22.06	23.2	24.0611567	0.428132.1	14066.05	0.04	20.0	0.0614464	0.5118848	6	
10	22.06	27.8	24.9221550	0.310191.31	5095.66	0.04	20.0	0.0225674	0.046934	5	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 60 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 429.496 \quad Rc = 292.00 \quad Fs = 2.127$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.74	-11.8	22.2212504	89775.22	4887.61	0.04	20.0	0.0226081	242854.1		
2	21.74	-7.5	21.9635100	629214.63	14607.31	0.04	20.0	0.0655864	3116327.5		
3	27.49	-2.6	27.51292175	059440.04	29720.02	0.04	20.0	0.01304065	0228271.9		
4	15.99	1.6	16.0901675	441477.07	20738.54	0.04	20.0	0.0897579	3156565.1		
5	21.74	5.3	21.81254895	057725.19	28862.59	0.04	20.0	0.01240141	0216267.5		
6	21.74	9.7	22.11218405	056046.65	28023.32	0.04	20.0	0.01200273	0209487.8		
7	21.74	14.0	22.41104649	050813.84	25406.92	0.04	20.0	0.01090906	0190844.1		
8	21.74	18.5	22.9909814	841851.48	20925.74	0.04	20.0	0.0906000	3159307.1		
9	21.74	23.0	23.6628180	928896.32	14448.16	0.04	20.0	0.0634553	1113000.5		
10	21.74	27.8	24.6251461	911567.25	5783.63	0.04	20.0	0.0258465	548837.5		

$$xc = 712.339 \quad yc = 443.042 \quad Rc = 300.674 \quad Fs = 2.356$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.0	-11.6	21.4197682	39093.39	4546.69	0.04	20.0	0.0209160	435950.0		
2	31.49	-6.5	31.71016592	046763.25	23381.62	0.04	20.0	0.01042219	0166382.0		
3	10.5	-2.5	10.5475332	621865.3	10932.65	0.04	20.0	0.0479086	475793.5		
4	21.0	0.5	21.01028134	047294.15	23647.07	0.04	20.0	0.01026735	0162173.7		
5	21.0	4.5	21.11075295	049463.59	24731.79	0.04	20.0	0.01065362	0168151.6		
6	21.0	8.5	21.21057093	048626.25	24313.13	0.04	20.0	0.01044180	0164908.4		
7	21.0	12.6	21.5971916	744708.17	22354.08	0.04	20.0	0.0961895	2152245.4		
8	21.0	16.8	21.9817025	937583.19	18791.6	0.04	20.0	0.0814276	1129511.4		
9	21.0	21.0	22.5588338	827063.59	13531.79	0.04	20.0	0.0593528	495506.0		
10	21.0	25.4	23.2240278	111052.79	5526.4	0.04	20.0	0.0246013	441948.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 61 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 730.998 \quad yc = 429.496 \quad Rc = 284.999 \quad Fs=2.595$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.52	-13.1	21.1203268.89350.36	4675.18	0.04	20.0	0.0216546.733621.5				
2	17.37	-9.2	17.6485141.222316.4911158.25	0.04	20.0	0.0503415.873324.2					
3	23.67	-5.1	23.8954920.843926.3621963.18	0.04	20.0	0.0971081.3139871.1					
4	20.52	-0.6	20.5965360.244406.5722203.29	0.04	20.0	0.0966914.0138787.2					
5	20.52	3.5	20.61026843.047234.7623617.38	0.04	20.0	0.01019802.0146211.2					
6	20.52	7.7	20.71024230.047114.5623557.28	0.04	20.0	0.01013895.0145405.3					
7	20.52	11.8	21.0956142.543982.5521991.28	0.04	20.0	0.0948372.8136255.2					
8	20.52	16.1	21.4820048.337722.2218861.11	0.04	20.0	0.0819408.8118226.4					
9	14.74	19.8	15.7464099.321348.5710674.28	0.04	20.0	0.0468766.668167.5					
10	26.29	24.3	28.8367348.016898.01	8449.0	0.04	20.0	0.0377170.657350.9				

$$xc = 749.656 \quad yc = 443.042 \quad Rc = 279.752 \quad Fs=2.837$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.45	-6.4	12.531159.561433.34	716.67	0.02	18.0	0.031860.3	4532.3			
2	12.45	-3.8	12.586372.883973.15	1986.58	0.04	20.0	0.087430.912976.7				
3	12.45	-1.3	12.5131684.8	6057.5	3028.75	0.04	20.0	0.0132129.618707.8			
4	12.45	1.3	12.5162484.7	7474.3	3737.15	0.04	20.0	0.0162019.022542.5			
5	12.45	3.8	12.5178768.28223.34	4111.67	0.04	20.0	0.0177523.324535.2				
6	12.45	6.4	12.5180450.38300.72	4150.36	0.04	20.0	0.0178810.324707.4				
7	12.45	9.0	12.6167354.27698.29	3849.15	0.04	20.0	0.0165788.623047.5				
8	12.45	11.6	12.7139205.36403.44	3201.72	0.04	20.0	0.0138098.519509.6				
9	12.45	14.2	12.895632.63	4399.1	2199.55	0.04	20.0	0.095099.114011.8			
10	12.45	16.8	13.037966.581746.46	873.23	0.02	18.0	0.038069.8	5277.4			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 62 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 768.315 \quad yc = 429.496 \quad Rc = 261.085 \quad Fs=2.981$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)	
1	8.75	-3.4	8.811488	24	528.46	264.23	0.02	18.0	0.01161	19.7	1854.5	
2	8.75	-1.5	8.730896	32	1421.23	710.62	0.02	18.0	0.03101	10.9	3967.3	
3	8.75	0.4	8.746086	3	2119.97	1059.99	0.04	20.0	0.04603	8.0	6795.0	
4	8.75	2.3	8.857450	15	2642.71	1321.35	0.04	20.0	0.05716	5.1	8154.6	
5	8.75	4.3	8.863414	9	2917.09	1458.54	0.04	20.0	0.06293	0.5	8860.9	
6	8.75	6.2	8.863950	5	12941.72	1470.86	0.04	20.0	0.06335	8.5	8916.7	
7	8.75	8.1	8.859008	8	42714.41	1357.2	0.04	20.0	0.05841	9.5	8318.7	
8	8.75	10.1	8.948514	0	2231.65	1115.82	0.04	20.0	0.04802	0.1	7055.4	
9	8.75	12.0	8.932915	3	1514.11	757.05	0.02	18.0	0.03276	5.3	4171.5	
10	8.75	14.0	9.013537	6	4	622.73	311.37	0.02	18.0	0.01343	6.0	2069.4

$$xc = 395.147 \quad yc = 456.587 \quad Rc = 366.108 \quad Fs=2.045$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.66	-9.9	25.01729	37	6795.13	3977.56	0.04	20.0	0.01820	37.9	302.8
2	24.66	-6.0	24.84962	25	12282.69	11413.84	0.04	20.0	0.05089	69.5	456.2
3	24.66	-2.1	24.77320	38	33367.3	7616836.88	0.04	20.0	0.07375	46.8	123.9
4	24.66	1.8	24.78815	45	64055.1	20275.55	0.04	20.0	0.08770	31.5	953.7
5	15.33	4.9	15.45840	43	426866.0	13433.0	0.04	20.0	0.05771	131.5	749.6
6	33.99	8.8	34.41343	63	9061807.38	30903.69	0.04	20.0	0.01322	175.0	2099.1
7	24.66	13.5	25.49233	26	842473.04	21236.52	0.04	20.0	0.09094	68.3	6862.0
8	24.66	17.5	25.97778	19	835779.7	117889.85	0.04	20.0	0.07706	60.5	248.7
9	24.66	21.6	26.55330	5	424520.64	12260.32	0.04	20.0	0.05335	91.4	176.2
10	24.66	25.8	27.41918	20	28823.73	4411.87	0.02	18.0	0.01966	41.0	3928.7

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 63 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 413.805 \quad yc = 470.133 \quad Rc = 380.107 \quad Fs=1.968$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.51	-10.6	28.023032	1.810594	8.52974	0.04	20.0	0.0243886	7.50790	6.6	
2	27.51	-6.4	27.764995	0.929897	7.741494	8.87	0.04	20.0	0.0668667	0.129282	3.3
3	27.51	-2.3	27.595216	8.543799	7.521899	8.88	0.04	20.0	0.0960200	9.183164	0.0
4	21.53	1.4	21.587958	9.640461	1.122023	0.56	0.04	20.0	0.0875730	8.166323	5.5
5	33.5	5.6	33.715281	9.020296	8.235148	4.1	0.04	20.0	0.0150755	5.028562	9.7
6	27.51	10.2	28.012970	25.059663	1.529831	1.57	0.04	20.0	0.0127442	0.024135	7.9
7	27.51	14.5	28.412075	15.055545	7.127772	2.85	0.04	20.0	0.0118886	0.022562	8.4
8	27.51	18.8	29.199104	3.845588	0.022279	4.01	0.04	20.0	0.0983026	6.187696	2.2
9	27.51	23.3	29.963865	5.929378	1.714689	0.08	0.04	20.0	0.0641542	3.124725	3.3
10	27.51	27.9	31.121201	3.297526	1.48763	0.02	18.0	0.0219028	3.339321	1.1	

$$xc = 432.463 \quad yc = 456.587 \quad Rc = 345.418 \quad Fs=1.74$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.43	0.2	0.4	18.68	0.86	0.43	0.02	18.0	0.0	18.5	52.7
2	21.32	2.0	21.362953	2.242895	8.85	1447.93	0.02	18.0	0.062493	3.14121	4.4
3	10.88	4.7	10.966579	0.930626	6.4	1531.32	0.02	18.0	0.065692	1.13520	5.5
4	10.88	6.5	10.981238	5.93736	9.8	1868.49	0.02	18.0	0.079919	0.16180	9.9
5	10.88	8.3	11.089013	4.54094	6.2	2047.31	0.04	20.0	0.086929	9.20709	4.4
6	10.88	10.2	11.089383	7.34111	6.5	2055.83	0.02	18.0	0.087647	2.17635	7.7
7	10.88	12.0	11.182669	9.83802	8.2	1901.41	0.02	18.0	0.081029	3.16408	0.0
8	10.88	13.9	11.268590	1.63155	1.15	1577.57	0.02	18.0	0.067231	6.13841	2.2
9	10.88	15.7	11.346978	8.62161	0.03	1080.51	0.02	18.0	0.046020	0.98916	6.6
10	10.88	17.6	11.417639	0.02	811.4	405.7	0.02	18.0	0.017077	7.45003	3.3

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 64 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 451.122 \quad yc = 470.133 \quad Rc = 381.032 \quad Fs=1.78$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	31.67	-12.5	32.4349	220.716	064.15	8032.08	0.04	20.0	0.0376	401.484	240.2
2	31.67	-7.7	32.0963	517.644	321.812	2160.91	0.04	20.0	0.0100	0715.021	11767.6
3	17.83	-3.9	17.9742	255.634	143.761	7071.88	0.04	20.0	0.0754	844.615	8338.6
4	45.5	0.8	45.5242	5215.011	1559.955	779.95	0.04	20.0	0.0241	18014.050	4568.7
5	31.67	6.7	31.9193	6529.089	080.314	4540.16	0.04	20.0	0.0190	3385.039	6296.1
6	31.67	11.5	32.3194	2446.089	352.494	4676.25	0.04	20.0	0.0190	1665.039	6041.6
7	37.17	16.8	38.8203	9103.093	798.734	6899.36	0.04	20.0	0.0200	3849.041	8397.8
8	26.16	21.9	28.2117	3983.054	003.212	7001.6	0.04	20.0	0.0116	6809.024	4880.3
9	31.67	26.7	35.4104	6051.048	118.372	4059.18	0.04	20.0	0.0105	7980.022	4258.4
10	31.67	32.2	37.4399	007.118	354.32	9177.16	0.04	20.0	0.0412	941.592	826.5

$$xc = 469.78 \quad yc = 456.587 \quad Rc = 367.958 \quad Fs=1.706$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	32.63	-13.7	33.6399	283.318	367.03	9183.52	0.04	20.0	0.0435	688.110	0846.3
2	35.18	-8.3	35.6120	4375.055	401.252	7700.63	0.04	20.0	0.0125	7898.027	6755.1
3	30.08	-3.2	30.1151	9449.069	894.643	4947.32	0.04	20.0	0.0154	0851.033	5858.5
4	32.63	1.7	32.6202	7183.093	250.424	6625.21	0.04	20.0	0.0201	5388.043	7707.8
5	32.63	6.8	32.9222	6356.010	2412.451	1206.19	0.04	20.0	0.0218	5760.047	4113.1
6	32.63	11.9	33.3222	2638.010	2241.451	1120.68	0.04	20.0	0.0217	2129.047	1319.3
7	18.03	16.0	18.8114	6399.052	734.372	6367.18	0.04	20.0	0.0112	2607.024	3946.1
8	47.22	21.4	50.7265	4039.012	2085.861	042.9	0.04	20.0	0.0262	6154.057	2274.0
9	32.63	28.2	37.0127	1803.058	502.942	9251.47	0.04	20.0	0.0129	0868.028	4135.4
10	32.63	34.2	39.4492	110.822	637.11	1318.55	0.04	20.0	0.0514	061.011	8941.6



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 65 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 488.439 \quad yc = 470.133 \quad Rc = 360.618 \quad Fs=1.60$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.64	-5.6	22.8132393	393.66090	11 3045.05	0.02	18.0	0.0136018	930467.1		
2	22.64	-2.0	22.7375672	217280.92	8640.46	0.04	20.0	0.0379104	191906.7		
3	22.64	1.6	22.7554338	925499.59	12749.8	0.04	20.0	0.0550889	6130985.0		
4	22.64	5.2	22.7665261	430602.02	15301.01	0.04	20.0	0.0653938	8154449.0		
5	22.64	8.8	22.9707677	332553.15	16276.58	0.04	20.0	0.0690854	4162891.5		
6	24.87	12.7	25.5743346	734193.95	17096.97	0.04	20.0	0.0723465	2170954.8		
7	20.41	16.4	21.3557009	125622.42	12811.21	0.04	20.0	0.0542728	8128785.5		
8	22.64	20.0	24.1543136	024984.26	12492.13	0.04	20.0	0.0531774	9126997.9		
9	22.64	23.9	24.8384903	217705.55	8852.77	0.04	20.0	0.0379939	692623.6		
10	22.64	27.9	25.6142247	8 6543.4	3271.7	0.02	18.0	0.0143791	732404.0		

$$xc = 507.097 \quad yc = 456.587 \quad Rc = 347.638 \quad Fs=1.533$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.57	-7.5	24.8175874	48090.22	4045.11	0.02	18.0	0.0182932	042016.4		
2	24.57	-3.4	24.6502943	823135.41	11567.71	0.04	20.0	0.0511530	0127905.0		
3	24.57	0.6	24.6740088	034044.05	17022.02	0.04	20.0	0.0738173	8181718.7		
4	24.57	4.7	24.6887545	040827.07	20413.54	0.04	20.0	0.0873029	9213766.4		
5	32.31	9.4	32.8124297	057176.61	28588.3	0.04	20.0	0.0121085	80296111.2		
6	16.82	13.5	17.3639814	029431.44	14715.72	0.04	20.0	0.0621475	1152107.6		
7	24.57	17.1	25.7915444	742110.46	21055.23	0.04	20.0	0.0890628	3218220.0		
8	24.57	21.4	26.4797950	436705.72	18352.86	0.04	20.0	0.0781538	7192490.2		
9	24.57	25.8	27.3569314	826188.48	13094.24	0.04	20.0	0.0564121	3141092.5		
10	24.57	30.4	28.5217645	710011.7	5005.85	0.04	20.0	0.0217639	359119.3		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 66 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 525.755 \quad yc = 470.133 \quad Rc = 340.574 \quad Fs=1.351$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.91	5.0	9.97711.16	354.71	177.36	0.02	18.0	0.07454.7	3265.7		
2	9.91	6.7	10.019121.16	879.57	439.79	0.02	18.0	0.018556.2	5940.5		
3	9.68	8.3	9.824530.641128.41	564.2	0.02	18.0	0.023743.1	7160.2			
4	10.13	10.0	10.334559.971589.76	794.88	0.02	18.0	0.033405.7	9559.1			
5	9.91	11.7	10.144751.2	2058.56	1029.28	0.02	18.0	0.043234.411898.1			
6	9.91	13.5	10.249925.852296.59	1148.3	0.02	18.0	0.048200.113102.6				
7	9.91	15.2	10.349356.43	2270.4	1135.2	0.02	18.0	0.047620.512974.8			
8	9.91	16.9	10.442910.181973.87	986.93	0.02	18.0	0.041358.711481.9				
9	9.91	18.7	10.530432.151399.88	699.94	0.02	18.0	0.029223.8	8578.0			
10	9.91	20.4	10.611740.0	540.04	270.02	0.02	18.0	0.010962.7	4202.4		

$$xc = 544.414 \quad yc = 456.587 \quad Rc = 327.688 \quad Fs=1.326$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.9	0.7	14.933613.6	1546.23	773.11	0.02	18.0	0.033482.610448.5			
2	14.9	3.3	14.986825.073993.95	1996.98	0.02	18.0	0.085617.223223.0				
3	9.04	5.4	9.170409.2	3238.82	1619.41	0.02	18.0	0.068987.918269.1			
4	20.75	8.1	21.0222915.410254.11	5127.05	0.02	18.0	0.0217155.856354.6				
5	14.9	11.2	15.2206454.29496.89	4748.45	0.04	20.0	0.0198747.359116.7				
6	14.9	13.9	15.3221785.110202.11	5101.06	0.04	20.0	0.0212874.963041.1				
7	14.9	16.6	15.5213929.79840.77	4920.38	0.04	20.0	0.0205061.460956.9				
8	14.9	19.3	15.8181973.28370.77	4185.38	0.04	20.0	0.0174389.652613.9				
9	14.9	22.1	16.1124770.45739.44	2869.72	0.04	20.0	0.0119396.537612.4				
10	14.9	25.0	16.446994.612161.75	1080.88	0.02	18.0	0.045496.313622.8				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 67 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 563.072 \quad yc = 470.133 \quad Rc = 341.869 \quad Fs = 1.358$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	17.89	-2.1	17.963785.2	2934.12	1467.06	0.02	18.0	0.064504.118068.3			
2	20.73	1.1	20.7202969.49336.59	4668.3	0.02	18.0	0.0202020.051387.2				
3	15.04	4.1	15.1231746.510660.34	5330.17	0.04	20.0	0.0227648.265450.4				
4	17.89	6.9	18.0374345.317219.88	8609.94	0.04	20.0	0.0364634.6103029.2				
5	17.89	9.9	18.2447049.320564.2710282.13		0.04	20.0	0.0432632.8121294.5				
6	17.89	13.0	18.4482962.622216.2811108.14		0.04	20.0	0.0465622.5130194.0				
7	17.89	16.1	18.6480870.222120.0311060.01		0.04	20.0	0.0463092.9129592.2				
8	17.89	19.2	18.9439136.120200.2610100.13		0.04	20.0	0.0423535.8119087.4				
9	9.54	21.7	10.3202125.09297.75	4648.87	0.04	20.0	0.0195474.755410.8				
10	26.23	24.9	28.9267438.212302.16	6151.08	0.04	20.0	0.0258735.277862.7				

$$xc = 581.731 \quad yc = 456.587 \quad Rc = 328.983 \quad Fs = 1.427$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	19.51	-4.6	19.691930.744228.81	2114.41	0.02	18.0	0.094193.624186.7				
2	15.09	-1.6	15.1177306.18156.08	4078.04	0.04	20.0	0.0178782.549825.0				
3	23.92	1.8	23.9494826.822762.0311381.02		0.04	20.0	0.0490959.9131913.1				
4	19.51	5.6	19.6573760.226392.9713196.48		0.04	20.0	0.0561962.6148805.9				
5	19.51	9.0	19.7675913.431092.0215546.01		0.04	20.0	0.0656926.0173065.9				
6	19.51	12.5	20.0728844.333526.8416763.42		0.04	20.0	0.0705435.5185500.6				
7	19.51	16.0	20.3730824.933617.9516808.97		0.04	20.0	0.0706940.9185972.0				
8	12.05	18.8	12.7428549.019713.26	9856.63	0.04	20.0	0.0415443.4109516.9				
9	26.96	22.5	29.2701706.332278.4916139.25		0.04	20.0	0.0683885.0182583.8				
10	19.51	26.9	21.9160206.77369.51	3684.75	0.04	20.0	0.0156332.446000.9				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 68 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 600.389 \quad yc = 470.133 \quad Rc = 322.38 \quad Fs=1.327$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	6.65	7.3	6.75286.76	243.19	121.6	0.02	18.0	0.05042.2	2245.0		
2	6.65	8.5	6.714558.21	669.68	334.84	0.02	18.0	0.014054.3	4454.0		
3	6.65	9.7	6.722083.08	1015.82	507.91	0.02	18.0	0.021336.8	6240.2		
4	6.65	10.9	6.827841.94	1280.73	640.36	0.02	18.0	0.026889.3	7603.3		
5	6.65	12.1	6.831816.88	1463.58	731.79	0.02	18.0	0.030708.3	8542.5		
6	6.65	13.3	6.833982.75	1563.21	781.6	0.02	18.0	0.032778.6	9054.2		
7	6.65	14.5	6.934314.48	1578.47	789.23	0.02	18.0	0.033081.0	9133.7		
8	9.37	16.0	9.845414.84	2089.08	1044.54	0.02	18.0	0.043752.6	12179.7		
9	3.93	17.2	4.114541.31	668.9	334.45	0.02	18.0	0.013971.5	4040.8		
10	6.65	18.2	7.09883.49	454.64	227.32	0.02	18.0	0.09307.7	3334.0		

$$xc = 619.047 \quad yc = 456.587 \quad Rc = 309.588 \quad Fs=1.553$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	10.29	2.4	10.321461.18	987.21	493.61	0.02	18.0	0.021241.1	5770.6		
2	10.29	4.3	10.359482.57	2736.2	1368.1	0.02	18.0	0.058632.4	13596.1		
3	10.29	6.2	10.492216.81	4241.97	2120.99	0.04	20.0	0.090177.0	23800.6		
4	10.29	8.1	10.4121201.75	575.28	2787.64	0.04	20.0	0.0118101.1	30356.2		
5	10.29	10.0	10.5142563.76	557.93	3278.97	0.04	20.0	0.0138555.8	35164.5		
6	10.29	12.0	10.5156177.57	184.17	3592.08	0.04	20.0	0.0151543.8	38226.2		
7	5.57	13.5	5.787305.6	4016.06	2008.03	0.04	20.0	0.084668.6	21318.8		
8	15.01	15.5	15.6196458.6	9037.1	4518.55	0.04	20.0	0.0190383.5	48630.8		
9	10.29	17.9	10.878714.68	3620.88	1810.44	0.04	20.0	0.076061.0	20611.6		
10	10.29	19.9	10.927245.34	1253.29	626.64	0.02	18.0	0.026461.5	6945.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 69 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 637.706 \quad yc = 470.133 \quad Rc = 339.167 \quad Fs = 1.719$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.24	-7.7	22.4184542	98488.98	4244.49	0.02	18.0	0.0191427	0.038787.3		
2	22.24	-3.9	22.3545959	025114.1	1112557.06	0.04	20.0	0.0555559	4.122797.7		
3	22.24	-0.1	22.2847807	.838999.16	19499.58	0.04	20.0	0.0848212	4.184740.5		
4	22.24	3.6	22.31081496	.049748.81	24874.4	0.04	20.0	0.01068967	.0231484.6		
5	23.68	7.5	23.91331749	.061260.45	30630.23	0.04	20.0	0.01306039	.0282045.3		
6	20.8	11.3	21.21183669	.054448.78	27224.39	0.04	20.0	0.01157120	.0249897.8		
7	22.24	15.1	23.01124996	.051749.82	25874.91	0.04	20.0	0.01100882	.0238415.4		
8	22.24	19.0	23.5905143	.841636.62	20818.31	0.04	20.0	0.0890532	.8193998.3		
9	22.24	23.0	24.2604585	.127810.92	13905.46	0.04	20.0	0.0600541	.9132757.2		
10	22.24	27.2	25.0216467	.59957.51	4978.75	0.04	20.0	0.0216803	.351714.2		

$$xc = 656.364 \quad yc = 456.587 \quad Rc = 323.443 \quad Fs = 1.835$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.17	-9.0	22.5194638	08953.35	4476.67	0.02	18.0	0.0203129	8.838416.1		
2	22.17	-5.0	22.3580119	.326685.49	13342.74	0.04	20.0	0.0593125	8.122502.7		
3	22.17	-1.1	22.2899224	.541364.33	20682.16	0.04	20.0	0.0902876	1.183925.8		
4	32.68	3.8	32.81762347	.081067.94	40533.97	0.04	20.0	0.01742877	.0352849.8		
5	11.67	7.7	11.8690485	.431762.33	15881.16	0.04	20.0	0.0678212	.3137094.6		
6	22.18	10.8	22.61258600	.057895.61	28947.8	0.04	20.0	0.01233684	.0249629.4		
7	22.17	14.8	22.91122319	.051626.69	25813.35	0.04	20.0	0.01101769	.0223542.3		
8	22.17	18.9	23.4907589	.541749.12	20874.56	0.04	20.0	0.0896682	.3182972.0		
9	22.17	23.1	24.1609087	.828018.04	14009.02	0.04	20.0	0.0608503	.2125956.4		
10	22.17	27.5	25.0219360	.310090.58	5045.29	0.04	20.0	0.0221556	.249395.3		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 70 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 675.023 \quad yc = 470.133 \quad Rc = 332.044 \quad Fs=1.986$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.72	-8.8	22.0184634	38493.18	4246.59	0.02	18.0	0.0191989	533626.2		
2	21.72	-5.0	21.8554336	925499.5	12749.75	0.04	20.0	0.0565847	6108101.1		
3	21.72	-1.2	21.7861320	339620.73	19810.37	0.04	20.0	0.0864984	6162911.5		
4	15.18	2.0	15.2748470	334429.63	17214.82	0.04	20.0	0.0744124	8139443.2		
5	28.27	5.7	28.4150171	4069078.84	34539.42	0.04	20.0	0.0148144	0277241.3		
6	21.72	10.1	22.1110395	050781.71	25390.86	0.04	20.0	0.0108511	30203324.4		
7	21.72	13.9	22.4987325	245416.96	22708.48	0.04	20.0	0.0971929	5182643.8		
8	21.72	17.8	22.8799708	136786.57	18393.29	0.04	20.0	0.0791877	6149731.9		
9	21.72	21.8	23.4536825	624693.98	12346.99	0.04	20.0	0.0536941	5103123.8		
10	21.72	25.9	24.2192773	48867.58	4433.79	0.04	20.0	0.0194625	640535.8		

$$xc = 693.681 \quad yc = 456.587 \quad Rc = 316.356 \quad Fs=2.148$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.44	-10.1	21.8191078	68789.62	4394.81	0.04	20.0	0.0200912	738101.0		
2	21.44	-6.2	21.6576185	826504.54	13252.27	0.04	20.0	0.0590906	6104148.2		
3	23.78	-2.1	23.8100970	5046446.43	23223.22	0.04	20.0	0.0101685	0176743.7		
4	19.09	1.8	19.1971134	144672.17	22336.08	0.04	20.0	0.0966384	8167317.0		
5	21.44	5.5	21.5111900	3051474.14	25737.07	0.04	20.0	0.0110579	70191394.3		
6	21.44	9.4	21.7108474	7049898.37	24949.18	0.04	20.0	0.0106885	90185170.7		
7	21.44	13.3	22.0982332	645187.3	22593.65	0.04	20.0	0.0969647	2168415.4		
8	21.44	17.4	22.5808833	237206.33	18603.16	0.04	20.0	0.0803594	3140356.8		
9	21.44	21.5	23.0559993	125759.68	12879.84	0.04	20.0	0.0562627	899631.2		
10	21.44	25.7	23.8229819	910571.71	5285.86	0.04	20.0	0.0233893	344066.4		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 71 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 712.339 \quad yc = 470.133 \quad Rc = 338.356 \quad Fs=2.379$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.96	-13.8	26.7335511.315433.52	7716.76	0.04	20.0	0.0360203.059592.0				
2	25.96	-9.3	26.3987322.045416.8122708.41	0.04	20.0	0.01027150.0161538.0					
3	23.55	-5.1	23.61363371.062715.0431357.52	0.04	20.0	0.01388147.0216307.9					
4	28.38	-0.7	28.41981239.091137.045568.5	0.04	20.0	0.01985176.0308427.8					
5	25.96	3.9	26.01911573.087932.3643966.18	0.04	20.0	0.01895930.0294380.1					
6	25.96	8.3	26.21894155.087131.1143565.55	0.04	20.0	0.01871783.0290722.9					
7	25.96	12.8	26.61764438.081164.1640582.08	0.04	20.0	0.01747666.0271802.5					
8	34.74	18.2	36.61958208.090077.5645038.78	0.04	20.0	0.01960471.0306023.5					
9	17.19	22.8	18.6661204.630415.4115207.71	0.04	20.0	0.0672776.6106044.2					
10	25.96	26.9	29.1389381.417911.548955.77	0.04	20.0	0.0402830.666510.7					

$$xc = 730.998 \quad yc = 456.587 \quad Rc = 309.736 \quad Fs=2.623$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.29	-11.5	20.7185346.68525.94	4262.97	0.04	20.0	0.0195285.130256.2				
2	14.51	-8.2	14.7360151.916566.998283.49	0.04	20.0	0.0371656.853807.6					
3	26.08	-4.4	26.2939723.543227.2821613.64	0.04	20.0	0.0953133.2136247.4					
4	20.29	-0.1	20.3864465.739765.4219882.71	0.04	20.0	0.0864775.5123092.7					
5	20.29	3.6	20.3920243.842331.2121165.61	0.04	20.0	0.0913870.6129911.4					
6	20.29	7.4	20.5918943.242271.3921135.69	0.04	20.0	0.0909860.4129374.7					
7	20.29	11.2	20.7859470.939535.6619767.83	0.04	20.0	0.0852117.4121396.3					
8	20.29	15.1	21.0739894.334035.1417017.57	0.04	20.0	0.0737792.1105582.3					
9	13.45	18.3	14.2392807.218069.139034.57	0.04	20.0	0.0394906.356958.6					
10	27.14	22.3	29.3358148.316474.828237.41	0.04	20.0	0.0364573.655063.0					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 72 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 749.656 \quad yc = 470.133 \quad Rc = 315.683 \quad Fs=2.95$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	10.4	-11.1	10.645755	962104.77	1052.39	0.02	18.0	0.047806	9	5985.1	
2	25.68	-7.8	25.940732	7218737.05	9368.52	0.04	20.0	0.041869	3.255	181.2	
3	18.04	-3.8	18.144878	8420644.27	10322.13	0.04	20.0	0.045367	0.158	434.1	
4	18.04	-0.5	18.053944	1.024814	2912407.14	0.04	20.0	0.054010	1.969	094.4	
5	18.04	2.7	18.159099	5.827185	8	13592.9	0.04	20.0	0.058807	5.775	017.0
6	18.04	6.0	18.160331	9.227752	6813876.34	0.04	20.0	0.059861	2.376	327.9	
7	18.04	9.3	18.357588	5.426490	7313245.36	0.04	20.0	0.057161	3.473	015.6	
8	25.11	13.3	25.868143	2.331345	8915672.94	0.04	20.0	0.067961	4.887	363.5	
9	10.97	16.7	11.520650	6.19499	28	4749.64	0.04	20.0	0.020746	7.827	154.4
10	18.04	19.5	19.112960	6.15961	88	2980.94	0.04	20.0	0.013085	5.918	742.9

$$xc = 768.315 \quad yc = 456.587 \quad Rc = 296.606 \quad Fs=3.104$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.34	-9.7	15.660652	4.432790	0.01	1395.01	0.02	18.0	0.062826	8	7578.6
2	15.34	-6.7	15.417593	938093.21	4046.6	0.04	20.0	0.017986	1.823	078.4	
3	15.34	-3.7	15.426788	7.212322	81	6161.41	0.04	20.0	0.027064	8.533	713.2
4	15.34	-0.8	15.333408	1.315367	74	7683.87	0.04	20.0	0.033465	4.641	213.5
5	15.34	2.2	15.437467	5.717235	0.8	8617.54	0.04	20.0	0.037319	0.645	732.9
6	15.34	5.2	15.438962	3.017922	66	8961.33	0.04	20.0	0.038692	8.247	350.2
7	15.34	8.2	15.537865	7.817418	26	8709.13	0.04	20.0	0.037592	5.346	072.3
8	16.9	11.3	17.237304	3.117159	98	8579.99	0.04	20.0	0.037128	9.345	752.2
9	13.79	14.4	14.221523	4.19900	77	4950.39	0.04	20.0	0.021524	9.027	070.6
10	15.34	17.3	16.181852	2.23	3765.2	1882.6	0.02	18.0	0.082710	4	9692.2



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESNO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 73 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 395.147 \quad yc = 483.678 \quad Rc = 393.182 \quad Fs=2.03$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.8	-9.4	26.1183454	4.4	8438.9	4219.45	0.04	20.0	0.0192468	8.39661	3.3
2	25.8	-5.6	25.9525772	7.24185	5412092.77	0.04	20.0	0.0538166	5.101599	6.6	
3	25.8	-1.8	25.8774970	3.35648	6.317824	32	0.04	20.0	0.0779897	7.144919	9.9
4	38.28	2.9	38.31419093	0.65278	2.532639	13	0.04	20.0	0.01407817	0.259970	0.0
5	13.32	6.6	13.4525056	6.24152	6	12076.3	0.04	20.0	0.0517488	4.95427	0.0
6	25.8	9.5	26.21038558	0.47773	6.723886	84	0.04	20.0	0.01021479	0.188303	5.8
7	25.8	13.4	26.5982764	6.45207	1.722603	5.9	0.04	20.0	0.0967663	6.178725	0.0
8	25.8	17.3	27.0827249	1.38053	4.619026	7.3	0.04	20.0	0.0819000	8.152168	5.5
9	25.8	21.3	27.7566243	6.26047	2	13023.6	0.04	20.0	0.0565984	1.106934	3.3
10	25.8	25.4	28.5203768	2.9373	3.4	4686.67	0.02	18.0	0.0208354	0.36162	0.0

$$xc = 413.805 \quad yc = 497.224 \quad Rc = 407.182 \quad Fs=1.933$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	28.98	-10.1	29.4247907	8.11403	765701	88	0.04	20.0	0.0261650	4.55366	6.6
2	28.98	-6.0	29.1697613	6.32090	2.316045	11	0.04	20.0	0.0716133	3.314089	2.7
3	28.98	-1.9	29.01019504	0.46897	1.623448	5.8	0.04	20.0	0.01026569	0.199324	0.0
4	19.01	1.5	19.0780756	3.35914	7.917957	3.9	0.04	20.0	0.0777077	4.150273	1.1
5	38.96	5.6	39.21801229	0.82856	5.241428	2.6	0.04	20.0	0.01776278	0.342609	0.0
6	28.98	10.4	29.51385160	0.63717	3.431858	6.7	0.04	20.0	0.01360159	0.262242	9.9
7	28.98	14.6	30.01280442	0.58900	3.329450	1.6	0.04	20.0	0.01259772	0.243437	8.8
8	28.98	18.9	30.61036890	0.47696	9.323848	4.6	0.04	20.0	0.01027490	0.199835	1.1
9	20.08	22.6	21.7495505	7.22793	2.611396	6.3	0.04	20.0	0.0495896	4.97887	2.2
10	37.89	27.1	42.6388172	2.17855	9.28927	9.6	0.02	18.0	0.0399395	7.71547	5.5

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 74 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 432.463 \quad yc = 483.678 \quad Rc = 372.489 \quad Fs=1.81$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.25	0.2	0.2	6.26	0.29	0.14	0.02	18.0	0.0	6.2	28.5
2	23.19	2.0	23.273498	98.713380	94	1690.47	0.02	18.0	0.072991	7.15662	6.6
3	11.72	4.7	11.877372	953559	16	1779.58	0.02	18.0	0.076398	5.15009	8.8
4	11.72	6.5	11.894811	334361	32	2180.66	0.04	20.0	0.092993	8.21300	8.8
5	11.72	8.3	11.8104075	04787	45	2393.72	0.04	20.0	0.0101803	6.23082	7.4
6	11.72	10.2	11.9103972	54782	74	2391.37	0.04	20.0	0.0101500	3.23035	4.4
7	11.72	12.0	12.095933	194412	93	2206.46	0.02	18.0	0.094201	7.18229	4.4
8	11.72	13.9	12.179584	82	3660.9	1830.45	0.02	18.0	0.078180	2.15364	0.0
9	11.72	15.7	12.254503	862507	18	1253.59	0.02	18.0	0.053538	5.10953	1.1
10	11.72	17.6	12.320462	52	941.28	470.64	0.02	18.0	0.019903	5	4930.0

$$xc = 451.122 \quad yc = 497.224 \quad Rc = 408.107 \quad Fs=1.747$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	33.23	-11.9	34.0372257	917123	87	8561.93	0.04	20.0	0.0399602	991039	3.3
2	33.23	-7.2	33.51025393	047168	0923584	05	0.04	20.0	0.01062210	0.228995	5.5
3	17.08	-3.6	17.1714698	432876	1316438	06	0.04	20.0	0.0725894	0.155168	5.8
4	49.38	1.1	49.42660339	0122375	661187	8	0.04	20.0	0.02650325	0.563542	8.8
5	33.23	6.9	33.52058558	094693	6547346	82	0.04	20.0	0.02021721	0.428918	8.8
6	33.23	11.6	33.92058092	094672	2247336	11	0.04	20.0	0.02013295	0.427266	8.8
7	30.16	16.2	31.41697267	078074	2939037	14	0.04	20.0	0.01664598	0.354033	8.8
8	36.3	21.1	38.91728648	079517	7839758	89	0.04	20.0	0.01712007	0.365634	1.1
9	33.23	26.5	37.11133284	052131	0826065	54	0.04	20.0	0.01143230	0.246709	5.5
10	33.23	31.8	39.1434189	819972	73	9986.37	0.04	20.0	0.0447607	1.102222	1.1

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 75 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 483.678 \quad Rc = 395.032 \quad Fs = 1.678$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	33.96	-13.1	34.9417795	719218.6	9609.3	0.04	20.0	0.0453701	4106699.3		
2	36.53	-7.9	36.91256881	057816.5328908	27	0.04	20.0	0.01309312	0292727.8		
3	31.39	-2.9	31.41596614	073444.2636722	13	0.04	20.0	0.01616933	0358141.1		
4	33.96	1.8	34.02128163	097895.4848947	74	0.04	20.0	0.02114354	0466619.3		
5	33.96	6.8	34.22339815	0107631.553815	74	0.04	20.0	0.02296149	0506096.5		
6	46.69	12.7	47.93181210	0146335.773167	83	0.04	20.0	0.03106603	0685110.3		
7	21.23	17.8	22.31323544	060883.0430441	52	0.04	20.0	0.01298046	0286810.4		
8	33.96	22.1	36.71906485	087698.3143849	16	0.04	20.0	0.01887846	0418135.9		
9	33.96	27.5	38.31407486	064744.3432372	17	0.04	20.0	0.01421757	0317451.4		
10	33.96	33.3	40.6608511	427991.5213995	76	0.04	20.0	0.0631531	2146633.5		

$$xc = 488.439 \quad yc = 497.224 \quad Rc = 387.689 \quad Fs = 1.566$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.99	-5.2	24.1144795	96660.61	3330.31	0.02	18.0	0.0148487	633890.0		
2	23.99	-1.7	24.0410948	918903.65	9451.83	0.04	20.0	0.0414082	5102385.5		
3	23.99	1.9	24.0604905	627825.6613912	83	0.04	20.0	0.0600425	5145702.1		
4	23.99	5.4	24.1723886	233298.7716649	38	0.04	20.0	0.0710829	1171390.2		
5	23.99	9.0	24.3766989	335281.5117640	75	0.04	20.0	0.0748004	6180080.7		
6	18.8	12.2	19.2579966	526678.4613339	23	0.04	20.0	0.0563952	0136007.2		
7	29.18	15.9	30.3853882	939278.6119639	31	0.04	20.0	0.0830643	4200835.1		
8	23.99	20.0	25.5610493	128082.6814041	34	0.04	20.0	0.0596843	6145260.8		
9	23.99	23.9	26.2432856	919911.42	9955.71	0.04	20.0	0.0426491	6105840.1		
10	23.99	27.8	27.1158424	17287.51	3643.75	0.02	18.0	0.0159787	536622.0		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 76 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 507.097 \quad yc = 483.678 \quad Rc = 374.709 \quad Fs=1.514$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.58	-7.0	25.8185494	38532.74	4266.37	0.04	20.0	0.0193491	353321.5		
2	25.58	-3.1	25.6530960	324424.17	12212.09	0.04	20.0	0.0539157	1136371.0		
3	25.58	0.8	25.6782042	635973.96	17986.98	0.04	20.0	0.0779394	3194109.7		
4	25.58	4.7	25.7939121	143199.57	21599.79	0.04	20.0	0.0923418	4228752.5		
5	29.27	9.0	29.61146273	052728.54	26364.27	0.04	20.0	0.01116881	0276302.1		
6	21.9	12.9	22.5868519	339951.89	19975.94	0.04	20.0	0.0843215	1208628.0		
7	25.58	16.7	26.71003455	046158.92	23079.46	0.04	20.0	0.0975194	8241473.0		
8	25.58	20.8	27.4888188	840856.68	20428.34	0.04	20.0	0.0868159	8215919.3		
9	25.58	25.1	28.3657722	930255.26	15127.63	0.04	20.0	0.0649634	0163621.4		
10	25.58	29.5	29.4300586	113826.96	6913.48	0.04	20.0	0.0300141	479913.1		

$$xc = 525.755 \quad yc = 497.224 \quad Rc = 367.642 \quad Fs=1.285$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.35	4.7	11.410856	82	499.41	249.71	0.02	18.0	0.010530	2	4434.9
2	11.35	6.5	11.426986	781241	39	620.7	0.02	18.0	0.026207	9	8404.2
3	7.23	7.9	7.322051	891014	39	507.19	0.02	18.0	0.021355	3	6535.9
4	15.47	9.7	15.769692	153205	84	1602.92	0.02	18.0	0.067372	619476	9
5	11.35	11.8	11.668544	833153	06	1576.53	0.02	18.0	0.066150	618530	3
6	11.35	13.6	11.774724	093437	31	1718.65	0.02	18.0	0.072031	720030	3
7	11.35	15.5	11.872880	243352	49	1676.25	0.02	18.0	0.070200	319582	3
8	11.35	17.3	11.962811	372889	32	1444.66	0.02	18.0	0.060451	317134	9
9	11.35	19.2	12.044280	49	2036.9	1018.45	0.02	18.0	0.042495	112614	8
10	11.35	21.1	12.217009	4	782.43	391.22	0.02	18.0	0.015945	5	5924.8

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 77 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 483.678 \quad Rc = 354.756 \quad Fs=1.328$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.81	0.8	15.837650.1	1731.91	865.95	0.02	18.0	0.037497.811558.5			
2	22.9	3.9	23.0156528.3	7200.3	3600.15	0.02	18.0	0.0154083.641165.9			
3	8.72	6.5	8.884672.343894.93	1947.46	0.02	18.0	0.082769.121577.2				
4	15.81	8.5	16.0199909.29195.83	4597.91	0.04	20.0	0.0193499.657860.9				
5	15.81	11.1	16.1243842.011216.73	5608.37	0.04	20.0	0.0234920.969253.6				
6	15.81	13.7	16.3263008.312098.38	6049.19	0.04	20.0	0.0252638.274159.3				
7	15.81	16.3	16.5256653.011806.04	5903.02	0.04	20.0	0.0246212.572458.8				
8	15.81	19.0	16.7223806.510295.1	5147.55	0.04	20.0	0.0214701.363895.0				
9	15.81	21.7	17.0163259.37509.93	3754.97	0.04	20.0	0.0156593.848055.4				
10	15.81	24.5	17.475465.353471.41	1735.7	0.02	18.0	0.073538.420614.0				

$$xc = 563.072 \quad yc = 497.224 \quad Rc = 368.937 \quad Fs=1.382$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.69	-1.9	18.768373.85	3145.2	1572.6	0.02	18.0	0.069053.618937.6			
2	20.05	1.1	20.1197463.1	9083.3	4541.65	0.02	18.0	0.0196578.549110.9			
3	17.32	4.0	17.4276295.012709.57	6354.79	0.04	20.0	0.0271638.576552.1				
4	18.69	6.8	18.8412163.918959.54	9479.77	0.04	20.0	0.0401830.4111254.9				
5	18.69	9.7	19.0493301.822691.88	11345.94	0.04	20.0	0.0477985.6131348.5				
6	18.69	12.7	19.2535617.824638.42	12319.21	0.04	20.0	0.0517122.6141710.4				
7	18.69	15.7	19.4537894.224743.13	12371.57	0.04	20.0	0.0518763.3142216.1				
8	21.93	19.0	23.2578496.126610.82	13305.41	0.04	20.0	0.0558840.6153862.2				
9	15.45	22.1	16.7295336.713585.49	6792.74	0.04	20.0	0.0286185.380182.4				
10	18.69	25.0	20.6129167.4	5941.7	2970.85	0.04	20.0	0.0124449.838735.6			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 78 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 581.731 \quad yc = 483.678 \quad Rc = 356.051 \quad Fs=1.455$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.38	-4.3	20.497804	184498.99	2249.5	0.02	18.0	0.099964	225127.9		
2	14.71	-1.5	14.7173475	27979.86	3989.93	0.04	20.0	0.0174750	547749.7		
3	26.05	1.8	26.1551460	825367.2	12683.6	0.04	20.0	0.0547164	5144014.3		
4	20.38	5.6	20.5621309	928580.26	14290.13	0.04	20.0	0.0608867	1157909.9		
5	20.38	8.9	20.6733876	233758.3	16879.15	0.04	20.0	0.0714002	9184246.5		
6	20.38	12.2	20.9794643	436553.59	18276.8	0.04	20.0	0.0770115	8198342.5		
7	26.81	16.1	27.91049836	048292.43	24146.22	0.04	20.0	0.01017074	0262048.7		
8	13.95	19.6	14.8473761	521793.03	10896.51	0.04	20.0	0.0460424	7119224.3		
9	20.38	22.5	22.1479186	922042.6	11021.3	0.04	20.0	0.0467745	4123051.1		
10	20.38	26.1	22.7167581	37708.74	3854.37	0.04	20.0	0.0163539	047142.0		

$$xc = 600.389 \quad yc = 497.224 \quad Rc = 349.445 \quad Fs=1.442$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	7.36	6.6	7.47069	17	325.18	162.59	0.02	18.0	0.06818	7	2563.9
2	7.36	7.8	7.419592	51	901.26	450.63	0.02	18.0	0.019044	4	5321.4
3	7.36	9.1	7.529946	271377	53	688.76	0.02	18.0	0.029113	5	7593.5
4	7.36	10.3	7.538109	271753	03	876.51	0.02	18.0	0.037029	1	9380.8
5	7.36	11.5	7.544057	552026	65	1013.32	0.02	18.0	0.042786	2	10682.4
6	7.36	12.8	7.547768	852197	37	1098.68	0.04	20.0	0.045882	3	13673.7
7	7.36	14.0	7.649810	152291	27	1145.63	0.04	20.0	0.047802	5	14169.2
8	5.44	15.1	5.636568	521682	15	841.08	0.04	20.0	0.035066	7	10414.1
9	9.28	16.3	9.744977	842068	98	1034.49	0.02	18.0	0.043597	6	11164.2
10	7.36	17.8	7.711629	34	534.95	267.47	0.02	18.0	0.011069	2	3565.8

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 79 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 483.678 \quad Rc = 335.017 \quad Fs = 1.59$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.53	3.4	9.516737	5.4	769.93	384.96	0.02	18.0	0.016494	3	4569.9
2	9.53	5.1	9.646611	11.24	2144.12	1072.06	0.02	18.0	0.045858	2	10571.5
3	9.53	6.7	9.671653	8	3296.08	1648.04	0.02	18.0	0.070318	2	15572.2
4	9.53	8.3	9.695156	9.54	377.22	2188.61	0.04	20.0	0.092709	3	23638.4
5	9.53	10.0	9.711315	15.1	4520.96	2602.48	0.04	20.0	0.0110029	9	27613.5
6	12.1	11.9	12.416089	3	67401.11	3700.55	0.04	20.0	0.0156240	1	138865.3
7	6.95	13.5	7.288530	7	64072.42	2036.21	0.04	20.0	0.085894	6	21456.5
8	9.53	15.0	9.994971	6.5	4368.7	2184.35	0.04	20.0	0.092014	7	23538.3
9	9.53	16.7	9.958961	8	22712.24	1356.12	0.04	20.0	0.056900	7	15523.2
10	9.53	18.4	10.020719	15	953.08	476.54	0.02	18.0	0.020052	6	5359.3

$$xc = 637.706 \quad yc = 497.224 \quad Rc = 363.435 \quad Fs = 1.74$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.72	-6.2	21.816396	4	07542.35	3771.17	0.02	18.0	0.016861	7	833990.0
2	21.72	-2.8	21.748470	8	522296.59	11148.3	0.04	20.0	0.049045	6	8107566.2
3	21.72	0.7	21.775605	0	634778.32	17389.16	0.04	20.0	0.075420	8	3162718.8
4	21.72	4.1	21.896813	7	444534.32	22267.16	0.04	20.0	0.095594	2	8204919.8
5	19.49	7.4	19.799982	3	545991.88	22995.94	0.04	20.0	0.098104	3	6209681.3
6	23.95	10.8	24.412360	7	3056859.36	28429.68	0.04	20.0	0.012090	4	0258450.1
7	21.72	14.5	22.498558	1	745336.76	22668.38	0.04	20.0	0.096452	6	1206866.9
8	21.72	18.1	22.878978	9	136330.3	18165.15	0.04	20.0	0.077612	9	1167562.4
9	21.72	21.7	23.452498	7	324149.41	12074.71	0.04	20.0	0.051970	3	0114058.8
10	21.72	25.5	24.118620	7	58565.54	4282.77	0.04	20.0	0.018517	9	444255.7

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 80 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 656.364 \quad yc = 483.678 \quad Rc = 347.737 \quad Fs=1.857$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)	
1	21.75	-7.5	21.9174468	68.38025	54.4012	77.0	0.02	18.0	0.0180393	3.333928	0.0	
2	21.75	-3.9	21.8520032	32.32392	1.491196	0.74	0.04	20.0	0.0528496	9.108287	7.0	
3	21.75	-0.3	21.7809557	33.7239	6.318619	8.2	0.04	20.0	0.0810315	5.163517	5.0	
4	28.36	3.9	28.41390163	0.63947	5.31973	7.5	0.04	20.0	0.01374694	0.275581	8.0	
5	15.13	7.5	15.3811307	6.37320	1.518660	0.07	0.04	20.0	0.0797327	8.159575	3.0	
6	21.75	10.6	22.11112091	0.51156	1.625578	0.08	0.04	20.0	0.01090515	0.218521	0.0	
7	21.75	14.2	22.4988243	4.445459	2.22729	6.0	0.04	20.0	0.0970072	3.194980	1.0	
8	21.75	18.0	22.9796140	9.36622	4.818311	1.24	0.04	20.0	0.0785413	0.158876	0.0	
9	21.75	21.8	23.4531796	9.24462	6.612231	1.33	0.04	20.0	0.0529191	6.108772	9.0	
10	21.75	25.7	24.1189795	2.8730	5.8	4365	2.9	0.04	20.0	0.0190176	1.42475	1.0

$$xc = 675.023 \quad yc = 497.224 \quad Rc = 356.636 \quad Fs=2.014$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)	
1	21.35	-7.4	21.5167196	5.7691	0.04	3845	5.2	0.02	18.0	0.0172460	1.29962	9.0
2	21.35	-3.9	21.4502359	8.23108	5.511554	2.8	0.04	20.0	0.0510138	5.96449	3.0	
3	21.35	-0.5	21.3783787	9.36054	2.518027	1.12	0.04	20.0	0.0785045	2.146124	4.0	
4	11.3	2.1	11.3508410	9.23386	9.11693	4.5	0.04	20.0	0.0505267	0.93565	1.0	
5	31.39	5.6	31.51510574	0.69486	3.834743	1.9	0.04	20.0	0.01490818	0.275706	2.0	
6	21.35	9.9	21.7979033	3.345035	5.322517	7.7	0.04	20.0	0.0962721	1.1178299	8.0	
7	21.35	13.4	21.9873173	0.40165	9.620082	9.8	0.04	20.0	0.0859534	5.159705	0.0	
8	21.35	16.9	22.3705027	2.32431	2.516215	6.3	0.04	20.0	0.0697244	3.130447	5.0	
9	21.35	20.5	22.8471375	6.21683	2.810841	1.64	0.04	20.0	0.0469868	0.89449	2.0	
10	21.35	24.3	23.4167843	0.7720	7.8	3860	3.9	0.04	20.0	0.0168294	6.35067	4.0



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESNO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 81 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 483.678 \quad Rc = 340.991 \quad Fs=2.164$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.09	-8.7	21.3173119	37963.49	3981.74	0.02	18.0	0.0179537	3.28923.8		
2	21.09	-5.1	21.2524062	824106.891	2053.45	0.04	20.0	0.0534527	7.93800.9		
3	20.09	-1.6	20.1772574	335538.421	7769.21	0.04	20.0	0.0776724	8.134330.6		
4	22.09	1.9	22.11014798	046680.723	340.35	0.04	20.0	0.01009562	0.173854.9		
5	21.09	5.5	21.2997234	445872.792	2936.39	0.04	20.0	0.0985449	2.169631.6		
6	21.09	9.1	21.4965544	644415.052	2207.53	0.04	20.0	0.0951583	6.163968.3		
7	21.09	12.7	21.6873736	640191.892	20095.94	0.04	20.0	0.0862107	0.148970.1		
8	21.09	16.4	22.0719569	433100.19	16550.1	0.04	20.0	0.0713577	7.124060.2		
9	21.09	20.1	22.5499844	222992.831	1496.42	0.04	20.0	0.0500033	7.88238.7		
10	21.09	24.0	23.1210166	69667.67	4833.83	0.04	20.0	0.0212233	9.399955.7		

$$xc = 712.339 \quad yc = 497.224 \quad Rc = 362.586 \quad Fs=2.403$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.66	-12.3	26.3307208	814131.6	7065.8	0.04	20.0	0.0326153	0.53770.3		
2	25.66	-8.2	25.9910223	041870.262	0935.13	0.04	20.0	0.0940667	6.146788.3		
3	20.37	-4.5	20.41084021	049864.982	4932.49	0.04	20.0	0.01100827	0.170133.3		
4	30.94	-0.5	30.91983023	091219.054	5609.52	0.04	20.0	0.01985507	0.305875.5		
5	25.66	4.0	25.71741432	080105.884	0052.94	0.04	20.0	0.01727033	0.265857.9		
6	25.66	8.1	25.91725671	079380.883	9690.44	0.04	20.0	0.01705677	0.262656.0		
7	25.66	12.2	26.31608967	074012.537	006.25	0.04	20.0	0.01593079	0.245657.8		
8	33.09	17.0	34.61735963	079854.293	9927.14	0.04	20.0	0.01733426	0.268305.1		
9	18.23	21.3	19.6655797	630166.691	5083.34	0.04	20.0	0.0663481	2.103748.0		
10	25.66	25.1	28.3351058	216148.67	8074.34	0.04	20.0	0.0359928	7.759231.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 82 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 730.998 \quad yc = 483.678 \quad Rc = 334.735 \quad Fs=2.656$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.04	-10.1	20.4169705	37806.44	3903.22	0.04	20.0	0.0177249	927351.0		
2	11.66	-7.4	11.8257568	811848.17	5924.08	0.04	20.0	0.0264610	438025.4		
3	28.42	-3.9	28.5915095	442094.39	21047.2	0.04	20.0	0.0926185	5131188.8		
4	20.04	0.2	20.0774488	835626.48	17813.24	0.04	20.0	0.0774023	7109068.8		
5	20.04	3.7	20.1825511	337973.52	18986.76	0.04	20.0	0.0819795	1115346.2		
6	20.04	7.1	20.2825655	337980.14	18990.07	0.04	20.0	0.0817694	9115075.8		
7	20.04	10.6	20.4774045	935606.11	17803.05	0.04	20.0	0.0767239	8108191.7		
8	20.04	14.1	20.7669180	830782.32	15391.16	0.04	20.0	0.0666282	194400.9		
9	12.36	17.0	12.9335432	415429.89	7714.95	0.04	20.0	0.0336081	647993.1		
10	27.73	20.6	29.6344691	415855.81	7927.9	0.04	20.0	0.0348656	752231.8		

$$xc = 749.656 \quad yc = 497.224 \quad Rc = 340.429 \quad Fs=2.985$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	6.28	-9.9	6.415779	19725.84	362.92	0.02	18.0	0.016408	02213.3		
2	28.64	-7.0	28.8345545	715895.1	7947.55	0.04	20.0	0.0353883	047013.2		
3	17.46	-3.1	17.5365105	216794.84	8397.42	0.04	20.0	0.0368175	847232.9		
4	17.46	-0.1	17.5443769	920413.42	10206.71	0.04	20.0	0.0443909	356463.4		
5	17.46	2.8	17.5489578	222520.6	11260.3	0.04	20.0	0.0487143	461737.6		
6	17.46	5.7	17.5502422	323111.43	11555.71	0.04	20.0	0.0498605	163144.1		
7	17.46	8.7	17.7481910	622167.89	11083.94	0.04	20.0	0.0478237	960676.3		
8	25.07	12.4	25.7589963	627138.32	13569.16	0.04	20.0	0.0587510	375071.2		
9	9.85	15.4	10.2161645	37435.68	3717.84	0.04	20.0	0.0161844	021101.9		
10	17.46	17.8	18.3109810	75051.29	2525.65	0.04	20.0	0.0110221	715895.7		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 83 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 768.315 \quad yc = 483.678 \quad Rc = 321.434 \quad Fs=3.106$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.38	-7.8	14.546402.2	2134.5	1067.25	0.02	18.0	0.047644.4	5918.5		
2	14.38	-5.2	14.4133185.66126.54	3063.27	0.04	20.0	0.0135353.617720.0				
3	14.38	-2.6	14.4204168.09391.73	4695.86	0.04	20.0	0.0205580.525943.1				
4	14.38	-0.1	14.4255633.611759.15	5879.57	0.04	20.0	0.0255674.431810.8				
5	14.38	2.5	14.4287643.813231.62	6615.81	0.04	20.0	0.0286374.835409.9				
6	14.38	5.1	14.4300144.513806.65	6903.32	0.04	20.0	0.0298061.336784.8				
7	14.38	7.6	14.5292960.913476.2	6738.1	0.04	20.0	0.0290764.235939.1				
8	16.75	10.5	17.0305858.014069.47	7034.74	0.04	20.0	0.0304043.237819.5				
9	12.02	13.1	12.3155528.17154.29	3577.15	0.04	20.0	0.0155077.919760.1				
10	14.38	15.5	14.964990.532989.56	1494.78	0.02	18.0	0.065283.8	7790.0			

$$xc = 395.147 \quad yc = 510.77 \quad Rc = 442.063 \quad Fs=2.005$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	38.33	-16.5	40.0530921.624422.39	12211.2	0.04	20.0	0.0587596.8114614.2				
2	42.99	-11.1	43.81793225.082488.3441244.17	0.04	20.0	0.01896049.0352847.1					
3	40.66	-5.6	40.92623999.0120704.060351.98	0.04	20.0	0.02684697.0495388.6					
4	40.66	-0.3	40.73196809.0147053.273526.61	0.04	20.0	0.03199736.0588823.7					
5	20.69	3.7	20.71738863.079987.6739993.84	0.04	20.0	0.01722022.0316661.7					
6	60.63	9.0	61.45296957.0243660.0121830.0	0.04	20.0	0.05211195.0958013.9					
7	40.66	15.7	42.23307196.0152131.076065.51	0.04	20.0	0.03266598.0601274.3					
8	44.71	21.6	48.12935720.0135043.167521.56	0.04	20.0	0.02942239.0543572.6					
9	36.61	27.4	41.21620711.074552.737276.35	0.04	20.0	0.01664566.0310322.6					
10	40.66	33.2	48.6719005.633074.2616537.13	0.04	20.0	0.0762467.7148072.2					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 84 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 413.805 \quad yc = 524.315 \quad Rc = 434.256 \quad Fs = 1.903$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	30.45	-9.6	30.9265846	112228.92	6114.46	0.04	20.0	0.0279755	259989.3		
2	30.45	-5.5	30.6746067	934319.13	17159.56	0.04	20.0	0.0764360	3152603.7		
3	30.45	-1.5	30.51087715	050034.92	5017.45	0.04	20.0	0.01093774	0215572.5		
4	16.4	1.6	16.4677554	831167.52	15583.76	0.04	20.0	0.0674155	4132373.5		
5	44.49	5.6	44.72083714	095850.86	47925.43	0.04	20.0	0.02054212	0402238.9		
6	30.45	10.6	31.01474224	067814.31	33907.16	0.04	20.0	0.01446817	0283197.0		
7	30.45	14.7	31.51353283	062251.02	31125.51	0.04	20.0	0.01330631	0261084.0		
8	40.62	19.7	43.11361469	062627.59	31313.79	0.04	20.0	0.01350238	0267283.6		
9	20.27	24.0	22.2411892	318947.04	9473.52	0.04	20.0	0.0413526	283743.3		
10	30.45	27.7	34.4255664	111760.55	5880.27	0.02	18.0	0.0263260	048557.2		

$$xc = 432.463 \quad yc = 510.77 \quad Rc = 399.56 \quad Fs = 1.797$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.07	0.2	0.1	0.47	0.02	0.01	0.02	18.0	0.0	0.4	7.6
2	25.05	2.0	25.184851	743903.18	1951.59	0.02	18.0	0.084269	218030.0		
3	12.56	4.7	12.688976	664092.93	2046.46	0.02	18.0	0.087852	117290.6		
4	12.56	6.5	12.6109705	25046.44	2523.22	0.04	20.0	0.0107604	624613.0		
5	12.56	8.3	12.7120309	85534.25	2767.13	0.04	20.0	0.0117685	726666.9		
6	12.56	10.2	12.8120164	15527.55	2763.78	0.04	20.0	0.0117309	626605.4		
7	12.56	12.0	12.8110183	85068.45	2534.23	0.02	18.0	0.0108183	120993.9		
8	12.56	13.9	12.991397	044204.26	2102.13	0.02	18.0	0.089776	217675.7		
9	12.56	15.7	13.062587	392879.02	1439.51	0.02	18.0	0.061480	712570.9		
10	12.56	17.6	13.223496	131080.82	540.41	0.02	18.0	0.022872	5603.0		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 85 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 451.122 \quad yc = 524.315 \quad Rc = 435.181 \quad Fs = 1.716$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	34.72	-11.3	35.4394359.918140.56	9070.28	0.04	20.0	0.0421822.897722.4				
2	51.05	-5.6	51.31789096.082298.4	41149.2	0.04	20.0	0.01837399.0401664.3				
3	18.4	-1.0	18.4893097.641082.4920541.25	0.04	20.0	0.0896788.2194495.7					
4	34.72	2.5	34.81976471.090917.6645458.83	0.04	20.0	0.01960106.0423834.9					
5	34.72	7.0	35.02177637.0100171.350085.65	0.04	20.0	0.02137165.0461442.6					
6	34.72	11.7	35.52171798.099902.6949951.34	0.04	20.0	0.02122926.0458532.3					
7	23.44	15.6	24.31350980.062145.131072.55	0.04	20.0	0.01322769.0286228.6					
8	46.01	20.5	49.12312967.0106396.553198.23	0.04	20.0	0.02283722.0495818.3					
9	34.72	26.2	38.71229201.056543.2628271.63	0.04	20.0	0.01236706.0271326.0					
10	34.72	31.5	40.7483112.222223.16111111.58	0.04	20.0	0.0496214.1114735.5					

$$xc = 469.78 \quad yc = 510.77 \quad Rc = 422.107 \quad Fs = 1.656$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	35.21	-12.5	36.1435054.820012.5210006.26	0.04	20.0	0.0470412.8112070.7					
2	37.8	-7.5	38.11305934.060072.9730036.48	0.04	20.0	0.01357257.0307428.6					
3	32.63	-2.6	32.71669612.076802.1538401.07	0.04	20.0	0.01688901.0378982.7					
4	35.21	2.0	35.22224350.0102320.151160.05	0.04	20.0	0.02208723.0493821.2					
5	35.21	6.8	35.52449020.0112654.956327.46	0.04	20.0	0.02402561.0536466.9					
6	42.95	12.2	43.92973408.0136776.868388.38	0.04	20.0	0.02901973.0648246.9					
7	27.48	17.1	28.71776847.081734.9540867.47	0.04	20.0	0.01739292.0389108.8					
8	35.21	21.6	37.92056529.094600.3147300.16	0.04	20.0	0.02031558.0455531.4					
9	35.21	26.9	39.51551593.071373.2735686.63	0.04	20.0	0.01560738.0352465.7					
10	35.21	32.4	41.7721523.733190.0916595.04	0.04	20.0	0.0744240.5173596.3					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 86 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 488.439 \quad yc = 524.315 \quad Rc = 414.761 \quad Fs=1.542$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.33	-4.9	25.4157637	57251.32	3625.66	0.02	18.0	0.0161377	937292.9		
2	25.33	-1.4	25.3447461	120583.21	10291.61	0.04	20.0	0.0450253	7112822.9		
3	25.33	2.1	25.3657129	530227.96	15113.98	0.04	20.0	0.0651580	0160335.2		
4	25.33	5.7	25.5784261	936076.05	18038.02	0.04	20.0	0.0769460	8188180.5		
5	25.33	9.2	25.7827812	338079.36	19039.68	0.04	20.0	0.0806703	6197022.4		
6	12.71	11.9	13.0403480	518560.1	9280.05	0.04	20.0	0.0392141	895905.5		
7	37.95	15.5	39.41183794	054454.51	27227.25	0.04	20.0	0.01150341	0281673.8		
8	25.33	20.1	27.0681522	331350.03	15675.01	0.04	20.0	0.0665625	2164069.2		
9	25.33	23.8	27.7483438	522238.17	11119.08	0.04	20.0	0.0475742	8119448.6		
10	25.33	27.7	28.6177638	28171.36	4085.68	0.04	20.0	0.0175064	848733.3		

$$xc = 507.097 \quad yc = 510.77 \quad Rc = 401.78 \quad Fs=1.506$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.57	-6.6	26.8195292	48983.45	4491.73	0.04	20.0	0.0203138	756198.5		
2	26.57	-2.8	26.6558822	925705.86	12852.93	0.04	20.0	0.0566606	7144000.6		
3	26.57	1.0	26.6823822	237895.82	18947.91	0.04	20.0	0.0820469	4205345.2		
4	26.57	4.8	26.7990603	445567.75	22783.88	0.04	20.0	0.0973830	1242432.1		
5	26.26	8.6	26.61045624	048098.72	4049.35	0.04	20.0	0.01019262	0253382.9		
6	26.89	12.4	27.51107471	050943.67	25471.83	0.04	20.0	0.01075176	0267154.4		
7	26.57	16.4	27.71093579	050304.65	25152.33	0.04	20.0	0.01062205	0264063.2		
8	26.57	20.4	28.3981089	945130.14	22565.07	0.04	20.0	0.0957760	5238993.9		
9	26.57	24.5	29.2749399	034472.36	17236.18	0.04	20.0	0.0738556	6186243.5		
10	26.57	28.7	30.3334535	415388.63	7694.31	0.04	20.0	0.0332930	588506.7		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 87 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 525.755 \quad yc = 524.315 \quad Rc = 394.71 \quad Fs=1.243$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.75	4.4	12.8144	51.25	664.76	332.38	0.02	18.0	0.0140	51.9	5729.9
2	17.49	6.6	17.6533	71.25	2455.08	1227.54	0.02	18.0	0.0518	28.5	16378.4
3	8.01	8.5	8.1357	47.29	1644.38	822.19	0.02	18.0	0.0345	99.3	10345.5
4	12.75	10.0	12.9787	37.14	3621.91	1810.95	0.02	18.0	0.0760	76.4	21965.8
5	12.75	11.9	13.0963	14.91	4430.49	2215.24	0.02	18.0	0.0928	73.4	26369.1
6	12.75	13.8	13.1103	15.64	761.72	2380.86	0.02	18.0	0.0996	75.1	28162.6
7	12.75	15.7	13.2100	105.24	604.84	2302.42	0.02	18.0	0.0963	10.4	27301.9
8	12.75	17.6	13.4857	96.47	3946.64	1973.32	0.02	18.0	0.0824	90.0	23711.6
9	12.75	19.6	13.5602	54.89	2771.73	1385.86	0.02	18.0	0.0578	06.0	17285.2
10	12.75	21.6	13.7230	86.08	1061.96	530.98	0.02	18.0	0.0217	09.6	7879.8

$$xc = 544.414 \quad yc = 510.77 \quad Rc = 381.823 \quad Fs=1.339$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	16.56	0.8	16.6411	116.42	1891.36	945.68	0.02	18.0	0.0409	48.7	12412.9
2	22.03	3.7	22.1153	784.7	7074.1	3537.05	0.02	18.0	0.0151	1519.1	140074.8
3	11.08	6.2	11.1113	977.25	242.95	2621.48	0.02	18.0	0.0111	1530.6	28736.2
4	16.56	8.3	16.7228	976.71	10532.93	5266.46	0.04	20.0	0.0221	1884.0	65327.5
5	16.56	10.8	16.9279	472.21	2855.72	6427.86	0.04	20.0	0.0269	571.2	78330.3
6	16.56	13.3	17.0303	619.91	3966.51	6983.26	0.04	20.0	0.0292	2007.8	84478.6
7	16.56	15.9	17.2300	660.01	3830.36	6915.18	0.04	20.0	0.0288	788.3	83663.1
8	16.56	18.5	17.5269	618.51	2402.45	6201.23	0.04	20.0	0.0259	004.0	75637.9
9	16.56	21.2	17.8209	283.79	627.05	4813.53	0.04	20.0	0.0201	1185.3	60005.0
10	16.56	23.8	18.1918	68.29	4225.94	2112.97	0.04	20.0	0.0875	31.5	29207.7

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 88 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 563.072 \quad yc = 524.315 \quad Rc = 396.005 \quad Fs = 1.404$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	19.47	-1.8	19.573016	0.013358	74	1679.37	0.02	18.0	0.073660	3.19	821.0
2	19.36	1.0	19.419182	6.58824	0.02	4412.01	0.02	18.0	0.019099	9.14	6959.0
3	19.58	3.9	19.632256	8.21483	0.04	147419.07	0.04	20.0	0.031736	2.58	7859.2
4	19.47	6.7	19.645105	6.12074	0.04	8.581037	0.04	20.0	0.044009	0.91	19669.2
5	19.47	9.6	19.754089	4.12488	0.04	1.131244	0.04	20.0	0.052466	3.11	141632.5
6	19.47	12.4	19.958988	7.32713	0.04	4.811356	0.04	20.0	0.057021	5.91	153496.1
7	19.47	15.3	20.259681	8.12745	0.04	3.631372	0.04	20.0	0.057630	6.31	155146.4
8	16.54	18.0	17.447945	0.22205	0.04	4.711102	0.04	20.0	0.046349	5.51	125107.0
9	22.4	21.0	24.047371	6.12179	0.04	0.941089	0.04	20.0	0.045914	3.31	25860.8
10	19.47	24.3	21.413523	0.06220	0.04	5.3110.29	0.04	20.0	0.013037	5.63	9884.5

$$xc = 581.731 \quad yc = 510.77 \quad Rc = 383.118 \quad Fs = 1.481$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.23	-4.0	21.310369	0.64769	0.02	77	2384.88	18.0	0.010576	0.12	6081.0
2	14.29	-1.3	14.316924	0.27785	0.04	0.05	3892.53	20.0	0.017034	5.34	5731.6
3	28.17	1.8	28.260964	4.92804	0.04	3.661402	0.04	20.0	0.060491	6.61	56303.6
4	21.23	5.6	21.366972	2.43080	0.04	7.231540	0.04	20.0	0.065663	0.41	67163.2
5	21.23	8.8	21.579295	0.63647	0.04	7.731823	0.04	20.0	0.077217	7.71	195605.7
6	21.23	12.0	21.786183	8.73964	0.04	4.581982	0.04	20.0	0.083617	0.12	11395.4
7	22.15	15.3	23.091250	2.84197	0.04	1.132098	0.04	20.0	0.088484	1.72	23702.4
8	20.3	18.6	21.472164	2.13319	0.04	5.541659	0.04	20.0	0.070147	9.31	78213.3
9	21.23	22.0	22.950014	9.42300	0.04	6.871150	0.04	20.0	0.048837	5.11	26226.8
10	21.23	25.4	23.517489	5.8045.2	0.04	4022.6	0.04	20.0	0.017068	8.64	8304.8



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 89 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 600.389 \quad yc = 524.315 \quad Rc = 374.87 \quad Fs = 1.421$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	6.06	7.8	6.14064.04	186.95	93.47	0.02	18.0	0.03863.4	1744.8		
2	6.06	8.7	6.111343.98	521.82	260.91	0.02	18.0	0.010959.9	3369.5		
3	6.06	9.7	6.217485.14	804.32	402.16	0.02	18.0	0.016930.4	4737.0		
4	6.06	10.6	6.222477.771033.98	516.99	0.02	18.0	0.021773.8	5847.0			
5	6.06	11.5	6.226310.981210.31	605.15	0.02	18.0	0.025486.0	6698.7			
6	6.06	12.5	6.228974.961332.85	666.42	0.02	18.0	0.028062.3	7290.8			
7	6.06	13.4	6.230456.59	1401.0	700.5	0.02	18.0	0.029492.9	7621.3		
8	3.44	14.2	3.617477.36	803.96	401.98	0.02	18.0	0.016922.6	4369.3		
9	8.68	15.1	9.032123.86	1477.7	738.85	0.02	18.0	0.031017.3	8358.7		
10	6.06	16.3	6.3 6912.1	317.96	158.98	0.02	18.0	0.06506.3	2377.0		

$$xc = 619.047 \quad yc = 510.77 \quad Rc = 360.199 \quad Fs = 1.647$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	8.33	4.6	8.411366.45	522.86	261.43	0.02	18.0	0.011144.0	3213.3		
2	8.33	5.9	8.431847.261464.97	732.49	0.02	18.0	0.031271.0	7186.2			
3	8.33	7.3	8.449311.342268.32	1134.16	0.02	18.0	0.048362.810560.8				
4	8.33	8.6	8.464759.052978.92	1489.46	0.04	20.0	0.063075.715985.4				
5	8.33	10.0	8.578175.413596.07	1798.04	0.04	20.0	0.076059.018862.5				
6	8.48	11.3	8.689707.164126.53	2063.27	0.04	20.0	0.087208.421372.3				
7	8.18	12.7	8.481434.953746.01	1873.0	0.04	20.0	0.079080.519512.9				
8	8.33	14.0	8.662324.962866.95	1433.47	0.04	20.0	0.060385.715430.0				
9	8.33	15.4	8.638663.04	1778.5	889.25	0.02	18.0	0.037761.9	8498.9		
10	8.33	16.8	8.713730.68	631.61	315.81	0.02	18.0	0.013235.4	3667.6		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 90 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 637.706 \quad yc = 524.315 \quad Rc = 387.95 \quad Fs = 1.765$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.16	-4.9	21.2145700.36702.21	3351.11	0.02	18.0	0.0148795.829793.9				
2	21.16	-1.8	21.2430368.419796.95	9898.47	0.04	20.0	0.0433497.494176.9				
3	21.16	1.4	21.2674332.331019.2815509.64	0.04	20.0	0.0671145.3143174.5					
4	21.16	4.5	21.2866912.139877.9619938.98	0.04	20.0	0.0855371.6181172.0					
5	15.41	7.2	15.5722199.433221.1816610.59	0.04	20.0	0.0709030.8149709.3					
6	26.91	10.4	27.41259831.057952.2228976.11	0.04	20.0	0.01233095.0260441.1					
7	21.16	14.0	21.8861456.939627.0219813.51	0.04	20.0	0.0843246.1178804.0					
8	21.16	17.2	22.2687775.331637.6615818.83	0.04	20.0	0.0675364.0144268.7					
9	21.16	20.5	22.6455136.420936.2810468.14	0.04	20.0	0.0449408.897781.1					
10	21.16	23.9	23.2159922.17356.42	3678.21	0.04	20.0	0.0158161.037856.1				

$$xc = 656.364 \quad yc = 510.77 \quad Rc = 372.289 \quad Fs = 1.883$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.28	-6.1	21.4156553.97201.48	3600.74	0.02	18.0	0.0160667.029995.1				
2	21.28	-2.8	21.3466658.121466.2710733.14	0.04	20.0	0.0471967.295747.9					
3	21.28	0.4	21.3729595.433561.39	16780.7	0.04	20.0	0.0728489.4145323.3				
4	24.11	3.9	24.21076361.049512.6324756.31	0.04	20.0	0.01064383.0210858.2					
5	18.45	7.2	18.6896413.141235.0	20617.5	0.04	20.0	0.0881478.8174323.7				
6	21.28	10.3	21.6980913.645122.0222561.01	0.04	20.0	0.0962334.9190595.5					
7	21.28	13.7	21.9868931.839970.8619985.43	0.04	20.0	0.0853037.7169528.0					
8	21.28	17.1	22.3697635.232091.2216045.61	0.04	20.0	0.0687537.7137616.5					
9	21.28	20.5	22.7464030.021345.3810672.69	0.04	20.0	0.0460384.193810.4					
10	21.28	24.1	23.3164147.9	7550.8	3775.4	0.04	20.0	0.0163464.236545.6			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 91 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 675.023 \quad yc = 524.315 \quad Rc = 395.742 \quad Fs=2.034$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.29	-10.4	27.7315381	0.14507	5.37253	76	0.04	20.0	0.0332592	0.064967	4
2	27.29	-6.4	27.5946155	6.43523	1621761	58	0.04	20.0	0.0972270	6.179371	4
3	27.29	-2.4	27.31466945	0.67479	4833739	74	0.04	20.0	0.01479827	0.0270161	5
4	22.22	1.1	22.21502947	0.69135	5734567	79	0.04	20.0	0.01497826	0.0272381	5
5	32.35	5.1	32.52384694	0.109695	954847	96	0.04	20.0	0.02355977	0.0427951	0
6	27.29	9.5	27.71955063	0.89932	8844966	44	0.04	20.0	0.01923756	0.0349664	3
7	27.29	13.5	28.11786129	0.82161	9241080	96	0.04	20.0	0.01759936	0.0320429	7
8	27.29	17.6	28.61499777	0.68989	7334494	87	0.04	20.0	0.01487208	0.0271740	6
9	26.79	21.8	28.81073132	0.49364	0824682	04	0.04	20.0	0.01076309	0.0198259	7
10	27.78	26.1	30.9436762	5.20091	0710045	54	0.04	20.0	0.0444385	8.85598	7

$$xc = 693.681 \quad yc = 510.77 \quad Rc = 365.871 \quad Fs=2.195$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.73	-7.4	20.9157702	9.7254	34	3627.17	0.02	18.0	0.0162414	4.25941	2
2	20.73	-4.2	20.8478039	9.21989	8410994	92	0.04	20.0	0.0485426	0.084262	7
3	16.47	-1.2	16.5574563	6.26429	9213214	96	0.04	20.0	0.0576833	1.98631	3
4	24.99	2.0	25.01037112	0.47707	1623853	58	0.04	20.0	0.01031593	0.0175577	8
5	20.73	5.6	20.8888519	4.40871	8920435	95	0.04	20.0	0.0878136	9.149376	2
6	20.73	8.9	21.0859554	9.39539	5219769	76	0.04	20.0	0.0847437	1.144314	3
7	20.73	12.2	21.2777544	4.35767	0417883	52	0.04	20.0	0.0767161	8.131047	1
8	20.73	15.5	21.5640753	1.29474	6414737	32	0.04	20.0	0.0634692	2.109141	7
9	20.73	18.9	21.9446752	5.20550	6210275	31	0.04	20.0	0.0445580	3.77862	7
10	20.73	22.4	22.4192284	4.8845	08	4422.54	0.04	20.0	0.0193093	4.36096	5

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 92 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 712.339 \quad yc = 524.315 \quad Rc = 387.108 \quad Fs=2.43$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.34	-11.0	25.8282352	512988.21	6494.11	0.04	20.0	0.0297046	148730.4		
2	25.34	-7.2	25.5841953	538729.86	19364.93	0.04	20.0	0.0865403	2133798.2		
3	17.26	-4.0	17.3846082	638919.8	19459.9	0.04	20.0	0.0857310	8131230.6		
4	33.42	-0.2	33.41970157	090627.23	45313.61	0.04	20.0	0.01971444	0300726.8		
5	25.34	4.1	25.41589112	073099.13	36549.57	0.04	20.0	0.01575946	0240181.1		
6	25.34	7.9	25.61575296	072463.6	36231.8	0.04	20.0	0.01557447	0237440.0		
7	25.34	11.7	25.91470610	067648.06	33824.03	0.04	20.0	0.01455776	0222263.2		
8	31.58	16.0	32.91546344	071131.81	35565.91	0.04	20.0	0.01541083	0236187.5		
9	19.09	20.0	20.3643777	929613.78	14806.89	0.04	20.0	0.0648477	4100454.1		
10	25.34	23.5	27.6317684	214613.47	7306.74	0.04	20.0	0.0323419	252980.2		

$$xc = 730.998 \quad yc = 510.77 \quad Rc = 370.224 \quad Fs=2.692$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.36	-11.8	24.9272988	612557.48	6278.74	0.04	20.0	0.0287856	242609.8		
2	26.75	-7.8	27.0915230	642100.61	21050.3	0.04	20.0	0.0941881	0131334.5		
3	21.97	-4.0	22.01074238	049414.94	24707.47	0.04	20.0	0.01087491	0150279.6		
4	24.36	-0.4	24.41349516	062077.73	31038.87	0.04	20.0	0.01350990	0186246.1		
5	24.36	3.3	24.41436178	066064.18	33032.09	0.04	20.0	0.01427166	0196549.6		
6	24.36	7.1	24.51440360	066256.54	33128.27	0.04	20.0	0.01427002	0196549.4		
7	24.36	10.9	24.81360547	062585.17	31292.59	0.04	20.0	0.01349751	0186145.5		
8	21.6	14.6	22.31069216	049183.92	24591.96	0.04	20.0	0.01066451	0147478.8		
9	27.12	18.5	28.6945931	043512.82	21756.41	0.04	20.0	0.0953041	5133081.4		
10	24.36	22.8	26.4280954	112923.89	6461.94	0.04	20.0	0.0286802	542695.1		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 93 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 749.656 \quad yc = 524.315 \quad Rc = 365.373 \quad Fs=3.005$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	2.09	-8.9	2.1	1653.6	76.07	38.03	0.02	18.0	0.01725.2	327.1	
2	31.58	-6.3	31.8270244.112431.23	6215.61	0.04	20.0	0.0276007.737654.4				
3	16.83	-2.5	16.8290385.413357.73	6678.87	0.04	20.0	0.0292268.137637.9				
4	16.83	0.2	16.8358583.416494.84	8247.42	0.04	20.0	0.0358439.045649.6				
5	16.83	2.8	16.9399355.818370.37	9185.18	0.04	20.0	0.0397356.650365.5				
6	16.83	5.5	16.9412604.218979.79	9489.9	0.04	20.0	0.0409526.351846.8				
7	16.83	8.1	17.0398047.818310.2	9155.1	0.04	20.0	0.0394933.150092.0				
8	16.83	10.8	17.1355224.816340.34	8170.17	0.04	20.0	0.0353042.445036.5				
9	8.43	12.8	8.6152302.1	7005.9	3502.95	0.04	20.0	0.0151754.419529.1			
10	25.24	15.6	26.2214623.29872.67	4936.33	0.04	20.0	0.0214582.629473.8				

$$xc = 768.315 \quad yc = 510.77 \quad Rc = 346.46 \quad Fs=3.116$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	13.3	-6.0	13.434302.16	1577.9	788.95	0.02	18.0	0.034970.1	4504.9		
2	13.3	-3.8	13.396927.614458.67	2229.34	0.04	20.0	0.098025.713161.2				
3	13.3	-1.6	13.3149830.26892.19	3446.1	0.04	20.0	0.0150438.519280.3				
4	13.3	0.6	13.3188452.2	8668.8	4334.4	0.04	20.0	0.0188224.923693.5			
5	13.3	2.8	13.3212811.39789.32	4894.66	0.04	20.0	0.0211779.826446.8				
6	13.3	5.0	13.3222855.210251.34	5125.67	0.04	20.0	0.0221298.227563.1				
7	13.3	7.2	13.4218478.610050.01	5025.01	0.04	20.0	0.0216798.527044.6				
8	16.68	9.7	16.9245830.911308.22	5654.11	0.04	20.0	0.0244149.930690.7				
9	9.92	11.9	10.1104050.74786.33	2393.17	0.04	20.0	0.0103518.913393.4				
10	13.3	13.9	13.750346.712315.95	1157.97	0.02	18.0	0.050349.4	6129.6			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 94 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 395.147 \quad yc = 537.861 \quad Rc = 469.141 \quad Fs = 1.974$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	42.23	-15.8	43.9624069.128707.1814353.59	0.04	20.0	0.0686669.9135496.4					
2	42.56	-10.4	43.31811295.083319.5741659.79	0.04	20.0	0.01908141.0360582.3					
3	42.4	-5.2	42.62753669.0126668.863334.39	0.04	20.0	0.02812885.0527251.6					
4	60.04	1.1	60.14867363.0223898.7111949.3	0.04	20.0	0.04851123.0906594.0					
5	24.75	6.3	24.92147339.098777.5949388.8	0.04	20.0	0.02116822.0395334.3					
6	42.4	10.4	43.13725800.0171386.885693.39	0.04	20.0	0.03662488.0684006.1					
7	42.4	15.7	44.13462775.0159287.679643.81	0.04	20.0	0.03417622.0639049.7					
8	36.46	20.8	39.02471773.0113701.656850.78	0.04	20.0	0.02468407.0463015.5					
9	48.34	26.5	54.02322364.0106828.753414.36	0.04	20.0	0.02371610.0448210.4					
10	42.4	32.9	50.5770657.635450.2517725.12	0.04	20.0	0.0814082.1160326.9					

$$xc = 413.805 \quad yc = 551.406 \quad Rc = 461.331 \quad Fs = 1.874$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	31.89	-9.1	32.3284150.513070.926535.46	0.04	20.0	0.0298242.464821.3					
2	31.89	-5.1	32.0795322.536584.8418292.42	0.04	20.0	0.0813395.7164816.5					
3	45.62	-0.3	45.61738398.079966.2939983.14	0.04	20.0	0.01740401.0347766.3					
4	18.16	3.6	18.2812416.937371.1818685.59	0.04	20.0	0.0803880.9160018.0					
5	31.89	6.8	32.11546405.071134.6535567.32	0.04	20.0	0.01521384.0302344.9					
6	31.89	10.8	32.51564238.071954.9535977.47	0.04	20.0	0.01534282.0304924.5					
7	31.89	14.8	33.01426072.065599.2932799.64	0.04	20.0	0.01401304.0279209.7					
8	32.15	19.0	34.01131647.052055.7526027.88	0.04	20.0	0.01119495.0224691.5					
9	31.64	23.3	34.4737530.933926.4216963.21	0.04	20.0	0.0737991.8150685.6					
10	31.89	27.6	36.0278782.412823.996412.0	0.02	18.0	0.0286639.053541.2					

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 95 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 432.463 \quad yc = 537.861 \quad Rc = 448.256 \quad Fs = 1.789$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	33.47	-10.2	34.0339832	915632.31	7816.16	0.04	20.0	0.0359946	580850.5		
2	33.47	-5.9	33.7941769	143321.382	1660.69	0.04	20.0	0.0968010	9204501.9		
3	30.98	-1.8	31.0125177	1057581.452	8790.73	0.04	20.0	0.0126058	8.0263443.8		
4	35.96	2.5	36.0179127	082398.424	1199.21	0.04	20.0	0.0177685	2.0369613.9		
5	33.47	7.0	33.7186228	8085665.264	2832.63	0.04	20.0	0.0182975	7.0379870.4		
6	33.47	11.3	34.1186714	8085888.814	2944.41	0.04	20.0	0.0182820	1.0379646.0		
7	43.1	16.3	44.9211593	0097332.784	8666.39	0.04	20.0	0.0207808	8.0432905.2		
8	23.85	20.8	25.5935374	343027.212	1513.61	0.04	20.0	0.0926902	6.194318.0		
9	33.47	24.8	36.9980070	045083.222	2541.61	0.04	20.0	0.0983508	1.208378.1		
10	33.47	29.7	38.5371434	617085.99	8543.0	0.04	20.0	0.0378648	2.85663.1		

$$xc = 451.122 \quad yc = 551.406 \quad Rc = 462.256 \quad Fs = 1.686$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	35.89	-10.9	36.5409543	318838.99	9419.5	0.04	20.0	0.0436775	3.102956.9		
2	51.99	-5.4	52.2182309	6083862.414	1931.2	0.04	20.0	0.0187014	8.0416102.8		
3	19.78	-0.9	19.8964890	844384.982	2192.49	0.04	20.0	0.0968353	8.213735.0		
4	35.89	2.6	35.9206095	3094803.814	7401.91	0.04	20.0	0.0204293	5.0449536.6		
5	35.89	7.0	36.2227401	60104604.752	302.36	0.04	20.0	0.0223081	8.0490151.4		
6	35.89	11.5	36.6227200	40104512.252	256.08	0.04	20.0	0.0221928	8.0487773.5		
7	18.56	15.0	19.2109768	5050493.522	5246.76	0.04	20.0	0.0107311	2.0236215.2		
8	53.21	19.7	56.5282402	60129905.264	952.6	0.04	20.0	0.0277987	8.0613507.9		
9	35.89	25.7	39.8136229	4062665.523	1332.76	0.04	20.0	0.0136525	5.0304167.2		
10	35.89	30.7	41.7605885	127870.711	13935.36	0.04	20.0	0.0619446	1.1143625.1		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 96 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 537.861 \quad Rc = 427.741 \quad Fs = 1.626$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.74	-3.1	22.811090	2.3	5101.5	2550.75	0.02	18.0	0.0112408	9.25258.9	
2	22.74	0.0	22.7311016	5.14306	76	7153.38	0.04	20.0	0.0311026	9.75202.3	
3	22.74	3.0	22.8458759	3.21102	931055	1.46	0.04	20.0	0.0453715	0.107144.5	
4	22.74	6.1	22.9548495	5.25230	79	12615.4	0.04	20.0	0.0538149	3.126065.3	
5	22.74	9.2	23.0579472	8.26655	7513327	8.8	0.04	20.0	0.0565623	5.132254.7	
6	30.69	12.8	31.5727609	4.33470	0.316735	0.02	0.04	20.0	0.0708371	8.166279.9	
7	14.78	16.0	15.4305475	7.14051	88	7025.94	0.04	20.0	0.0297593	8.70385.1	
8	22.74	18.6	24.0420287	3.19333	22	9666.61	0.04	20.0	0.0410541	5.97782.4	
9	22.74	21.8	24.5298082	5.13711	79	6855.9	0.04	20.0	0.0292486	9.71485.7	
10	22.74	25.2	25.1112807	5.5189	15	2594.57	0.02	18.0	0.0112617	5.25590.0	

$$xc = 488.439 \quad yc = 551.406 \quad Rc = 441.832 \quad Fs = 1.516$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.23	-4.6	26.3165596	6.7617	45	3808.72	0.02	18.0	0.0169307	3.39759.7	
2	26.23	-1.2	26.2470885	9.21660	7510830	3.8	0.04	20.0	0.0473438	9.120591.1	
3	26.23	2.2	26.3692264	2.31844	1515922	0.08	0.04	20.0	0.0686085	7.171649.3	
4	26.23	5.6	26.4827566	5.38068	0.619034	0.03	0.04	20.0	0.0811641	2.201822.5	
5	34.97	9.7	35.51166593	0.53663	2526831	6.3	0.04	20.0	0.01135380	0.0281952.9	
6	17.5	13.1	18.0576169	7.26503	81	13251.9	0.04	20.0	0.0559213	9.139002.1	
7	26.23	16.1	27.3858348	1.39484	0.219742	0.01	0.04	20.0	0.0833523	8.207323.6	
8	26.23	19.6	27.9762740	3.35086	0.517543	0.03	0.04	20.0	0.0743522	6.185861.5	
9	26.23	23.3	28.6564285	3.25957	1.212978	5.6	0.04	20.0	0.0553868	3.140514.4	
10	26.23	27.1	29.5254891	7.11725	0.25862	5.1	0.04	20.0	0.0251416	1.68135.0	



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 97 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 507.097 \quad yc = 537.861 \quad Rc = 428.851 \quad Fs = 1.505$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.53	-6.3	27.7205056	19432.58	4716.29	0.04	20.0	0.0212737	558808.5		
2	27.53	-2.6	27.6586576	726982.53	13491.26	0.04	20.0	0.0593938	2150959.7		
3	27.53	1.1	27.5865494	139812.73	19906.36	0.04	20.0	0.0861469	0215652.1		
4	27.53	4.8	27.6104206	1047934.8	23967.4	0.04	20.0	0.01024315	0255058.4		
5	23.28	8.2	23.5941515	143309.69	21654.85	0.04	20.0	0.0918310	6228332.0		
6	31.78	12.0	32.51355878	062370.36	31185.18	0.04	20.0	0.01316686	0327054.7		
7	27.53	16.0	28.61185756	054544.77	27272.38	0.04	20.0	0.01151538	0286096.1		
8	27.53	19.9	29.31076535	049520.6	24760.3	0.04	20.0	0.01050174	0261751.4		
9	27.16	23.9	29.7834660	038394.36	19197.18	0.04	20.0	0.0821300	9206511.2		
10	27.91	27.9	31.6355783	216366.03	8183.01	0.04	20.0	0.0353008	793765.8		

$$xc = 525.755 \quad yc = 551.406 \quad Rc = 421.778 \quad Fs = 1.306$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.12	4.2	14.218491	63	850.61	425.31	0.02	18.0	0.018053	0	6658.4
2	16.34	6.3	16.455258	0	2541.87	1270.93	0.02	18.0	0.053842	115909.3	
3	11.9	8.2	12.063506	182921.28	1460.64	0.02	18.0	0.061684	917184.9		
4	14.12	10.0	14.3106555	24901.54	2450.77	0.02	18.0	0.0103282	527885.7		
5	14.12	12.0	14.4128001	55888.07	2944.04	0.02	18.0	0.0123849	133016.0		
6	14.12	13.9	14.5136831	86294.26	3147.13	0.04	20.0	0.0130832	640909.3		
7	14.12	15.9	14.7132388	66089.88	3044.94	0.04	20.0	0.0126345	839700.5		
8	14.12	17.9	14.8112175	85160.09	2580.04	0.04	20.0	0.0106802	434303.1		
9	14.12	19.9	15.078333	2	3603.33	1801.66	0.02	18.0	0.075666	321121.1	
10	14.12	22.0	15.229957	261378.03	689.02	0.02	18.0	0.028503	2	9421.7	

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 98 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 537.861 \quad Rc = 408.891 \quad Fs = 1.346$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	17.29	0.8	17.344661	272054.42	1027.21	0.02	18.0	0.044477	813303.2		
2	21.17	3.5	21.2150679	06931.24	3465.62	0.02	18.0	0.0148571	239009.2		
3	13.4	5.9	13.5145219	96680.12	3340.06	0.02	18.0	0.0142225	136328.6		
4	17.29	8.1	17.5259232	011924.67	5962.34	0.04	20.0	0.0251428	573164.6		
5	17.29	10.6	17.6316571	414562.28	7281.14	0.04	20.0	0.0305646	387859.7		
6	17.29	13.0	17.7345971	715914.7	7957.35	0.04	20.0	0.0333055	295317.3		
7	17.29	15.5	17.9346668	315946.74	7973.37	0.04	20.0	0.0333283	395437.9		
8	17.29	18.1	18.2317687	314613.62	7306.81	0.04	20.0	0.0305460	887987.4		
9	14.17	20.4	15.1216787	79972.23	4986.12	0.04	20.0	0.0208645	260900.7		
10	20.41	23.0	22.2136521	76280.0	3140.0	0.04	20.0	0.0130537	941879.5		

$$xc = 563.072 \quad yc = 551.406 \quad Rc = 423.073 \quad Fs = 1.426$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.24	-1.6	20.277714	633574.87	1787.44	0.02	18.0	0.078325	820692.4		
2	18.67	1.0	18.7186065	28559.0	4279.5	0.02	18.0	0.0185290	144851.9		
3	21.8	3.8	21.8370523	317044.07	8522.04	0.04	20.0	0.0364782	399265.3		
4	20.24	6.6	20.4490995	622585.8	11292.9	0.04	20.0	0.0479407	1128116.8		
5	20.24	9.4	20.5589788	827130.29	13565.14	0.04	20.0	0.0572658	1151964.3		
6	20.24	12.2	20.7645721	429703.19	14851.59	0.04	20.0	0.0624894	9165355.0		
7	20.24	15.0	21.0657578	130248.59	15124.3	0.04	20.0	0.0635710	2168185.9		
8	11.26	17.2	11.8353352	116254.2	8127.1	0.04	20.0	0.0341860	290589.0		
9	29.22	20.1	31.1670847	630858.99	15429.49	0.04	20.0	0.0650428	1174796.6		
10	20.24	23.7	22.1141276	46498.71	3249.36	0.04	20.0	0.0136302	741003.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 99 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 581.731 \quad yc = 537.861 \quad Rc = 410.186 \quad Fs=1.505$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	22.05	-3.7	22.1109600.35041.62	2520.81	0.02	18.0	0.0111588.327027.4				
2	13.84	-1.2	13.8164650.17573.91	3786.95	0.04	20.0	0.0165609.243729.0				
3	30.27	1.9	30.3669359.330790.5315395.26	0.04	20.0	0.0664199.6168676.1					
4	22.05	5.5	22.2719005.633074.2616537.13	0.04	20.0	0.0705271.9176449.1					
5	22.05	8.6	22.3853138.339244.3619622.18	0.04	20.0	0.0831473.3207009.1					
6	22.05	11.8	22.5930415.942799.1321399.57	0.04	20.0	0.0903615.6224514.5					
7	17.58	14.6	18.2757333.134837.3217418.66	0.04	20.0	0.0735045.4182589.8					
8	26.52	17.8	27.9980559.145105.7222552.86	0.04	20.0	0.0953484.9237992.9					
9	22.05	21.4	23.7520881.323960.5411980.27	0.04	20.0	0.0508802.2129343.4					
10	22.05	24.8	24.3182162.18379.46	4189.73	0.04	20.0	0.0177807.049455.7				

$$xc = 600.389 \quad yc = 551.406 \quad Rc = 419.292 \quad Fs=1.585$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	11.92	-3.6	11.930930.36	1422.8	711.4	0.02	18.0	0.031493.3	7965.7		
2	30.26	-0.7	30.3398935.518351.03	9175.52	0.04	20.0	0.0400216.499570.8				
3	21.09	2.8	21.1548256.425219.79	12609.9	0.04	20.0	0.0542569.4129960.5				
4	21.09	5.7	21.2717912.033023.9516511.98	0.04	20.0	0.0704813.5167248.3					
5	21.09	8.6	21.3839834.638632.39	19316.2	0.04	20.0	0.0820093.4193762.5				
6	20.46	11.5	20.9885092.640714.2620357.13	0.04	20.0	0.0861886.6203248.2					
7	21.72	14.4	22.4884718.040697.0320348.51	0.04	20.0	0.0861180.8203477.9					
8	21.09	17.5	22.1677901.531183.4715591.73	0.04	20.0	0.0661136.3157446.9					
9	21.09	20.5	22.5444856.820463.4110231.71	0.04	20.0	0.0435438.3105706.9					
10	21.09	23.6	23.0154525.37108.17	3554.08	0.04	20.0	0.0150958.040487.7				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 100 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 537.861 \quad Rc = 403.618 \quad Fs = 1.665$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	21.0	-3.7	21.0134653	0.6194	0.04	3097.02	0.02	18.0	0.0136841	9.29230	0.0
2	21.0	-0.7	21.0393574	1.118104	4.1	9052.2	0.04	20.0	0.0394790	5.91341	0.0
3	21.0	2.2	21.0618155	6.28435	1.614217	58	0.04	20.0	0.0613188	5.139083	9
4	21.0	5.2	21.1794439	3.336544	2.1	18272.1	0.04	20.0	0.0781660	8.175927	3
5	27.69	8.7	28.01236733	0.056889	7.228444	86	0.04	20.0	0.01209619	0.271139	3
6	14.3	11.7	14.6651607	5.29973	9.514986	97	0.04	20.0	0.0635913	3.142512	3
7	21.0	14.3	21.7850504	4.39123	2	19561.6	0.04	20.0	0.0830125	7.186661	7
8	21.0	17.4	22.0675292	9.31063	4.715531	74	0.04	20.0	0.0660769	4.149723	0
9	21.0	20.6	22.4444593	9.20451	3.210225	66	0.04	20.0	0.0436997	9.100910	0
10	21.0	23.8	22.9155154	5.57137	1.1	3568.56	0.04	20.0	0.0152441	5.38834	0

$$xc = 637.706 \quad yc = 551.406 \quad Rc = 412.687 \quad Fs = 1.794$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.58	-3.8	20.6129531	4.5958	4.4	2979.22	0.02	18.0	0.0131540	0.26128	7
2	20.58	-0.9	20.6382291	1.117585	3.9	8792.69	0.04	20.0	0.0383662	6.82444	9
3	20.58	1.9	20.6601774	3.27681	6.213840	81	0.04	20.0	0.0597855	2.12591	1
4	20.58	4.8	20.7776793	9.35732	5.217866	26	0.04	20.0	0.0766082	1.160062	9
5	11.46	7.0	11.5491204	2.22595	3.9	11297.7	0.04	20.0	0.0482526	5.100492	0
6	29.7	9.9	30.21260588	0.057987	0.428993	52	0.04	20.0	0.01234716	0.257278	6
7	20.58	13.5	21.2751321	9.34560	8.1	17280.4	0.04	20.0	0.0735694	9.154010	7
8	20.58	16.5	21.5597788	1.27498	2.513749	13	0.04	20.0	0.0586737	9.123849	4
9	20.58	19.5	21.8393922	0.018120	4.1	9060.21	0.04	20.0	0.0388233	0.83649	8
10	20.58	22.5	22.3137095	7	6306.4	3153.2	0.04	20.0	0.0134995	8.32362	6

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 101 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 656.364 \quad yc = 537.861 \quad Rc = 397.069 \quad Fs=1.913$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.79	-5.0	20.9140687.76471.63	3235.82	0.02	18.0	0.0143518.326554.6				
2	20.79	-1.9	20.8419379.819291.47	9645.74	0.04	20.0	0.0422506.684725.5				
3	20.79	1.1	20.8658503.530291.1615145.58	0.04	20.0	0.0656243.3129189.4					
4	19.96	4.0	20.0812900.737393.4318696.72	0.04	20.0	0.0803907.2157116.6					
5	21.62	7.0	21.8951956.843790.0121895.01	0.04	20.0	0.0936655.6182741.4					
6	20.79	10.1	21.1863896.439739.2319869.62	0.04	20.0	0.0847972.0165731.3					
7	20.79	13.2	21.3763077.435101.5617550.78	0.04	20.0	0.0749290.6147007.2					
8	20.79	16.3	21.7610748.828094.4514047.22	0.04	20.0	0.0601513.1118958.3					
9	20.79	19.4	22.0404663.318614.51	9307.26	0.04	20.0	0.0400589.680815.9				
10	20.79	22.6	22.5141871.36526.08	3263.04	0.04	20.0	0.0140597.731456.1				

$$xc = 675.023 \quad yc = 551.406 \quad Rc = 420.105 \quad Fs=2.055$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.87	-9.2	27.2288044.313250.04	6625.02	0.04	20.0	0.0301224.058646.1				
2	26.87	-5.5	27.0870124.940025.7520012.87	0.04	20.0	0.0889671.1162820.2					
3	26.87	-1.8	26.91353797.062274.6831137.34	0.04	20.0	0.01362158.0246479.4					
4	18.65	1.3	18.71171572.053892.3326946.16	0.04	20.0	0.01167048.0210323.6					
5	35.08	5.0	35.22392564.0110057.955028.96	0.04	20.0	0.02364499.0425622.7					
6	26.87	9.3	27.21779818.081871.6340935.81	0.04	20.0	0.01751873.0315566.8					
7	26.87	13.0	27.61625707.074782.5137391.25	0.04	20.0	0.01601721.0289042.3					
8	26.87	16.8	28.11366657.062866.2331433.11	0.04	20.0	0.01353514.0245178.6					
9	25.31	20.5	27.0950675.443731.0721865.54	0.04	20.0	0.0950191.3173545.4					
10	28.43	24.5	31.2427758.519676.89	9838.44	0.04	20.0	0.0432439.382669.7				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 102 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 537.861 \quad Rc = 403.593 \quad Fs=2.219$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.11	-10.0	26.5285538	413134.77	6567.38	0.04	20.0	0.0299521	253920.9		
2	26.11	-6.3	26.3856918	139418.23	19709.12	0.04	20.0	0.0878516	7148866.8		
3	31.46	-2.2	31.51659398	076332.33	8166.15	0.04	20.0	0.01671312	0279873.0		
4	20.77	1.5	20.81320373	060737.15	30368.57	0.04	20.0	0.01315013	0219487.8		
5	26.11	4.9	26.21710527	078684.23	39342.12	0.04	20.0	0.01692696	0282430.3		
6	26.11	8.6	26.41677545	077167.06	38583.53	0.04	20.0	0.01654845	0276256.9		
7	26.11	12.4	26.71548627	071236.86	35618.43	0.04	20.0	0.01529340	0255724.8		
8	26.11	16.2	27.21320190	060728.72	30364.36	0.04	20.0	0.01310848	0219961.5		
9	15.79	19.3	16.7641736	129519.86	14759.93	0.04	20.0	0.0642024	4108347.0		
10	36.44	23.3	39.7682680	231403.29	15701.64	0.04	20.0	0.0691409	8120587.2		

$$xc = 712.339 \quad yc = 551.406 \quad Rc = 411.885 \quad Fs=2.461$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.0	-9.8	25.4260486	111982.36	5991.18	0.04	20.0	0.0271998	844352.1		
2	25.0	-6.3	25.2781432	935945.91	17972.96	0.04	20.0	0.0799620	9122350.8		
3	14.21	-3.5	14.2643733	629611.74	14805.87	0.04	20.0	0.0651068	798605.2		
4	35.8	-0.1	35.81945474	089491.78	44745.89	0.04	20.0	0.01945789	0293597.3		
5	25.0	4.2	25.11452728	066825.48	33412.74	0.04	20.0	0.01440745	0217158.1		
6	25.0	7.7	25.21441029	066287.34	33143.67	0.04	20.0	0.01425100	0214870.3		
7	25.0	11.2	25.51347390	061979.95	30989.97	0.04	20.0	0.01333673	0201390.5		
8	30.19	15.1	31.31383676	063649.09	31824.54	0.04	20.0	0.01376979	0208737.0		
9	19.81	18.8	20.9627446	928862.56	14431.28	0.04	20.0	0.0629897	296561.7		
10	25.0	22.1	27.0288475	013269.85	6634.93	0.04	20.0	0.0292048	047579.9		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 103 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 730.998 \quad yc = 537.861 \quad Rc = 394.623 \quad Fs=2.723$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.85	-10.5	24.3246581.811342.76	5671.38	0.04	20.0	0.0257840.738030.3				
2	23.01	-7.1	23.2702069.532295.2	16147.6	0.04	20.0	0.0719780.399620.7				
3	24.7	-3.6	24.71082300.049785.7824892.89	0.04	20.0	0.01093801.0149847.5					
4	23.85	-0.1	23.91199006.055154.2927577.15	0.04	20.0	0.01199161.0163799.6					
5	23.85	3.4	23.91277233.058752.7329376.37	0.04	20.0	0.01269175.0173164.8					
6	23.85	6.9	24.01282785.059008.0929504.05	0.04	20.0	0.01271156.0173448.9					
7	23.85	10.4	24.31214449.055864.6627932.33	0.04	20.0	0.01204527.0164575.4					
8	20.89	13.7	21.5946860.943555.6	21777.8	0.04	20.0	0.0943121.2129228.2				
9	26.82	17.3	28.1857023.839423.0919711.55	0.04	20.0	0.0860570.9119162.3					
10	23.85	21.2	25.6248662.811438.49	5719.24	0.04	20.0	0.0252198.437471.1				

$$xc = 749.656 \quad yc = 551.406 \quad Rc = 390.485 \quad Fs=2.983$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	16.02	-6.5	16.151739.582380.02	1190.01	0.02	18.0	0.052847.4	6838.2			
2	16.02	-4.1	16.1147936.36805.07	3402.54	0.04	20.0	0.0149786.920432.8				
3	16.02	-1.8	16.0226615.510424.31	5212.16	0.04	20.0	0.0227640.929929.2				
4	16.02	0.6	16.0283154.513025.11	6512.55	0.04	20.0	0.0282790.336658.4				
5	16.02	2.9	16.0317580.214608.69	7304.34	0.04	20.0	0.0315906.240702.4				
6	16.02	5.3	16.1329812.015171.35	7585.68	0.04	20.0	0.0327322.042101.9				
7	16.02	7.7	16.2319650.914703.94	7351.97	0.04	20.0	0.0317034.340856.6				
8	16.02	10.0	16.3286774.113191.61	6595.8	0.04	20.0	0.0284698.336924.6				
9	9.23	11.9	9.4140887.46480.82	3240.41	0.04	20.0	0.0140118.118364.0				
10	22.81	14.4	23.5159969.07358.58	3679.29	0.04	20.0	0.0159339.222602.3				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 104 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 768.315 \quad yc = 537.861 \quad Rc = 371.655 \quad Fs=3.139$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	12.08	-4.4	12.124155.431111.15	555.57	0.02	18.0	0.024480.3	3305.7			
2	12.08	-2.5	12.166660.95	3066.4	1533.2	0.04	20.0	0.067137.0	9325.1		
3	12.08	-0.7	12.1104202.34793.31	2396.65	0.04	20.0	0.0104366.913640.6				
4	12.08	1.2	12.1131788.36062.26	3031.13	0.04	20.0	0.0131465.716783.1				
5	12.08	3.1	12.1149416.36873.15	3436.58	0.04	20.0	0.0148625.418774.7				
6	12.08	4.9	12.1157048.37224.22	3612.11	0.04	20.0	0.0155938.619626.2				
7	12.08	6.8	12.2154618.27112.44	3556.22	0.04	20.0	0.0153407.719337.9				
8	16.64	9.0	16.8190826.38778.01	4389.01	0.04	20.0	0.0189390.624107.5				
9	7.51	10.9	7.761797.7	2842.69	1421.35	0.04	20.0	0.061376.6	8091.8		
10	12.08	12.5	12.437702.331734.31	867.15	0.02	18.0	0.037578.7	4677.9			

$$xc = 395.147 \quad yc = 564.952 \quad Rc = 496.219 \quad Fs=1.937$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	45.99	-15.1	47.6717608.133009.9716504.99	0.04	20.0	0.0785781.1157482.9					
2	42.24	-9.9	42.91830329.084195.1442097.57	0.04	20.0	0.01922279.0370045.5					
3	44.11	-4.8	44.32883590.0132645.266322.58	0.04	20.0	0.02941525.0561848.3					
4	58.65	1.1	58.74761399.0219024.3109512.2	0.04	20.0	0.04744892.0903667.8					
5	29.58	6.2	29.82583467.0118839.559419.73	0.04	20.0	0.02545997.0484531.5					
6	44.11	10.5	44.93906208.0179685.689842.78	0.04	20.0	0.03837373.0730299.2					
7	44.11	15.8	45.83617657.0166412.283206.1	0.04	20.0	0.03567116.0679718.4					
8	28.19	20.1	30.01967168.090489.7245244.86	0.04	20.0	0.01958067.0374117.3					
9	60.03	25.7	66.63096834.0142454.471227.18	0.04	20.0	0.03146038.0604894.3					
10	44.11	32.6	52.4823676.437889.1118944.56	0.04	20.0	0.0866630.2173650.4					



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 105 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 413.805 \quad yc = 578.498 \quad Rc = 488.405 \quad Fs=1.845$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	33.33	-8.7	33.7302804	513929.01	6964.5	0.04	20.0	0.0317092	769867.9		
2	33.33	-4.8	33.5845367	638886.911944	3.46	0.04	20.0	0.0863226	2177549.9		
3	44.32	-0.2	44.31694466	077945.433897	2.71	0.04	20.0	0.01695866	0344170.6		
4	22.34	3.7	22.41010848	046499.012324	9.5	0.04	20.0	0.0999928	9202120.8		
5	33.33	7.0	33.61643148	075584.823779	2.41	0.04	20.0	0.01615535	0325994.0		
6	33.33	10.9	33.91655221	076140.173807	0.09	0.04	20.0	0.01622566	0327460.8		
7	33.33	14.9	34.51498829	068946.133447	3.06	0.04	20.0	0.01471804	0297837.8		
8	23.66	18.4	24.9869589	840001.132000	0.57	0.04	20.0	0.0858372	3174746.0		
9	43.01	22.6	46.61124913	051745.982587	2.99	0.04	20.0	0.01122233	0231497.4		
10	33.33	27.6	37.6304774	514019.637009	0.81	0.04	20.0	0.0307847	968885.0		

$$xc = 432.463 \quad yc = 564.952 \quad Rc = 475.331 \quad Fs=1.757$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	34.95	-9.8	35.5360909	216601.828300	0.91	0.04	20.0	0.0381257	487048.6		
2	34.95	-5.5	35.1998149	445914.872295	7.44	0.04	20.0	0.01024146	0220137.4		
3	29.86	-1.6	29.91211186	055714.572785	7.28	0.04	20.0	0.01218981	0259302.0		
4	40.04	2.6	40.12015797	092726.654636	3.32	0.04	20.0	0.01998649	0423129.0		
5	34.95	7.1	35.21972360	090728.564536	4.28	0.04	20.0	0.01936516	0409152.2		
6	34.95	11.4	35.71970491	090642.594532	1.29	0.04	20.0	0.01927981	0407482.7		
7	36.05	15.8	37.51818614	083656.224182	8.11	0.04	20.0	0.01783142	0377893.3		
8	33.85	20.3	36.11415003	065090.163254	5.08	0.04	20.0	0.01398363	0297874.0		
9	34.95	24.8	38.51061267	048818.292440	9.15	0.04	20.0	0.01063073	0228968.5		
10	34.95	29.5	40.2404431	118603.839301	0.91	0.04	20.0	0.0411287	894336.3		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 106 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 451.122 \quad yc = 578.498 \quad Rc = 489.33 \quad Fs = 1.668$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	37.02	-10.4	37.6424498	8.819526	95.9763	47	0.04	20.0	0.0451412	1.110755	1.3
2	52.85	-5.1	53.1185414	2.085290	524.2645	26	0.04	20.0	0.01899789	0.0427366	8
3	21.19	-0.8	21.2103831	7.047762	572.3881	28	0.04	20.0	0.01041511	0.0232397	8
4	37.02	2.6	37.1214478	8.098660	254.9330	13	0.04	20.0	0.02125231	0.0472732	3
5	37.02	7.0	37.3236985	4.010901	3.354506	63	0.04	20.0	0.02324266	0.0516230	0
6	50.78	12.2	52.0321980	8.014811	1.274055	58	0.04	20.0	0.03143179	0.0698479	6
7	23.25	16.7	24.3135545	0.062350	6.831175	34	0.04	20.0	0.01326515	0.0295342	8
8	37.02	20.4	39.5197055	1.090645	3.645322	68	0.04	20.0	0.01941438	0.0433204	7
9	37.02	25.1	40.9149899	9.068953	9.434476	97	0.04	20.0	0.01497804	0.0336712	0
10	37.02	30.0	42.8710661	2.232690	4.116345	21	0.04	20.0	0.0723638	1.1168194	1

$$xc = 469.78 \quad yc = 564.952 \quad Rc = 454.813 \quad Fs = 1.591$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	24.04	-2.8	24.1121774	1.15601	6.61	2800	0.02	18.0	0.0123314	3.28218	2
2	24.04	0.2	24.0341653	6.15716	0.77858	0.3	0.04	20.0	0.0341352	1.84160	6
3	24.04	3.2	24.1502455	6.23112	9.611556	48	0.04	20.0	0.0496488	0.119671	1
4	24.04	6.3	24.2598729	4.27541	5.513770	78	0.04	20.0	0.0586895	7.140386	6
5	24.04	9.3	24.4629616	0.28962	3.414481	17	0.04	20.0	0.0613961	0.146624	8
6	24.43	12.4	25.0602595	1.27719	3.813859	69	0.04	20.0	0.0586106	4.140414	3
7	23.66	15.6	24.6534534	4.24588	5.812294	29	0.04	20.0	0.0520018	8.125176	0
8	24.04	18.7	25.4479772	8.22069	5.511034	78	0.04	20.0	0.0468106	7.113504	4
9	24.04	22.0	25.9340471	7.15661	7	830	0.04	20.0	0.0333681	0.082877	8
10	24.04	25.3	26.6127079	4.5845	6.65	2922	0.02	18.0	0.0126722	2.229230	4

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 107 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 488.439 \quad yc = 578.498 \quad Rc = 468.903 \quad Fs = 1.502$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.11	-4.3	27.2173540	27982.85	3991.43	0.02	18.0	0.0177201	641961.0		
2	27.11	-1.0	27.1494311	722738.34	11369.17	0.04	20.0	0.0496610	8127584.6		
3	27.11	2.3	27.1727469	333463.59	16731.79	0.04	20.0	0.0720705	8181902.5		
4	27.11	5.6	27.2871065	840069.03	20034.51	0.04	20.0	0.0854143	9214272.7		
5	31.95	9.3	32.4108905	2050096.39	25048.19	0.04	20.0	0.0106010	0265554.8		
6	22.28	12.7	22.8768444	635348.45	17674.22	0.04	20.0	0.0745634	3186798.7		
7	27.11	15.8	28.2938659	943178.36	21589.18	0.04	20.0	0.0910906	7228277.5		
8	27.11	19.2	28.7846547	638941.19	19470.6	0.04	20.0	0.0824246	3207419.0		
9	27.11	22.8	29.4648215	929817.93	14908.96	0.04	20.0	0.0635156	1161774.4		
10	27.11	26.4	30.3306668	914106.77	7053.39	0.04	20.0	0.0302084	581281.2		

$$xc = 507.097 \quad yc = 564.952 \quad Rc = 455.922 \quad Fs = 1.505$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	28.47	-5.9	28.6214797	39880.68	4940.34	0.04	20.0	0.0222326	861393.5		
2	28.47	-2.3	28.5614269	128256.38	14128.19	0.04	20.0	0.0621229	1157860.6		
3	28.47	1.2	28.5907126	341727.81	20863.9	0.04	20.0	0.0902446	3225887.5		
4	28.47	4.8	28.6109356	50303.98	25151.99	0.04	20.0	0.0107486	20267622.9		
5	20.34	7.9	20.5834356	938380.42	19190.21	0.04	20.0	0.0814243	6202438.5		
6	36.6	11.5	37.4161308	074201.73	7100.85	0.04	20.0	0.0156692	50388997.2		
7	28.47	15.8	29.6127993	1058876.82	29438.41	0.04	20.0	0.0124285	0308530.6		
8	28.47	19.5	30.2117442	24054023.52	27011.76	0.04	20.0	0.0114498	10285020.2		
9	20.47	22.8	22.2706659	632506.34	16253.17	0.04	20.0	0.0693555	8173688.1		
10	36.46	26.8	40.8585468	826931.56	13465.78	0.04	20.0	0.0579540	8151057.4		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 108 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 525.755 \quad yc = 578.498 \quad Rc = 448.846 \quad Fs=1.327$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.99	4.0	15.021625.0	994.75	497.38	0.02	18.0	0.021159.5	7446.3		
2	15.62	5.9	15.757222.692632.24	1316.12	0.02	18.0	0.055862.216046.4				
3	14.36	7.9	14.586723.7	3989.29	1994.65	0.02	18.0	0.084390.522849.5			
4	14.99	9.8	15.2130006.05980.28	2990.14	0.02	18.0	0.0126204.633196.3				
5	14.99	11.7	15.3156916.47218.15	3609.08	0.04	20.0	0.0150725.445958.9				
6	14.99	13.7	15.4171308.87880.21	3940.1	0.04	20.0	0.0164215.749695.0				
7	14.99	15.7	15.6168512.37751.57	3875.78	0.04	20.0	0.0161291.048934.9				
8	14.99	17.6	15.7148053.96810.48	3405.24	0.04	20.0	0.0141508.343557.8				
9	14.99	19.7	15.9109374.05031.21	2515.6	0.04	20.0	0.0104217.633385.9				
10	14.99	21.7	16.155766.452565.26	1282.63	0.02	18.0	0.053810.115608.6				

$$xc = 544.414 \quad yc = 564.952 \quad Rc = 435.959 \quad Fs=1.36$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.0	0.8	18.048290.652221.37	1110.69	0.02	18.0	0.048092.514137.6				
2	20.32	3.3	20.4147264.36774.16	3387.08	0.02	18.0	0.0145311.937710.6				
3	15.68	5.7	15.8178284.58201.09	4100.54	0.02	18.0	0.0174763.244071.3				
4	18.0	7.9	18.2290642.813369.57	6684.78	0.04	20.0	0.0282171.980863.3				
5	18.0	10.3	18.3355091.316334.2	8167.1	0.04	20.0	0.0343209.397234.8				
6	18.0	12.8	18.5390004.217940.19	8970.1	0.04	20.0	0.0375869.7106022.1				
7	18.0	15.2	18.7394610.918152.1	9076.05	0.04	20.0	0.0379808.6107134.2				
8	26.31	18.2	27.7522055.324014.5412007.27	0.04	20.0	0.0502657.9142673.3					
9	9.69	20.7	10.4140465.3	6461.4	3230.7	0.04	20.0	0.0135331.039267.5			
10	18.0	22.7	19.5101845.44684.89	2342.44	0.04	20.0	0.097124.631733.1				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 109 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 563.072 \quad yc = 578.498 \quad Rc = 450.141 \quad Fs = 1.452$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.99	-1.5	21.082472	733793.75	1896.87	0.02	18.0	0.083050	721472.7		
2	17.97	1.0	18.018018	768288.63	4144.31	0.02	18.0	0.017946	3.242628.5		
3	24.0	3.7	24.042011	7019325.38	9662.69	0.04	20.0	0.041387	9.2110353.2		
4	20.99	6.6	21.153197	70624470.65	12235.32	0.04	20.0	0.051982	4.2136100.9		
5	20.99	9.3	21.363996	9729438.61	14719.3	0.04	20.0	0.062204	7.9161759.2		
6	20.99	12.0	21.570309	3632342.31	16171.15	0.04	20.0	0.068126	5.0176653.0		
7	27.05	15.1	28.092625	4242607.69	21303.85	0.04	20.0	0.089666	4.6232446.3		
8	14.92	17.9	15.744669	1420547.8	10273.9	0.04	20.0	0.043297	2.5112835.3		
9	20.99	20.3	22.442885	3319727.25	9863.63	0.04	20.0	0.041639	2.9110524.0		
10	20.99	23.2	22.814731	486776.48	3388.24	0.04	20.0	0.014229	7.241952.8		

$$xc = 581.731 \quad yc = 564.952 \quad Rc = 434.971 \quad Fs = 1.511$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.74	-2.0	26.814242	2156551.39	3275.69	0.02	18.0	0.014370	5.034454.1		
2	15.75	0.8	15.821648	549958.33	4979.16	0.04	20.0	0.021571	3.656148.2		
3	21.25	3.2	21.347380	7521795.15	10897.57	0.04	20.0	0.046785	1.6118366.0		
4	21.25	6.1	21.463903	7429395.72	14697.86	0.04	20.0	0.062601	7.8156499.3		
5	21.25	8.9	21.575715	0634828.93	17414.46	0.04	20.0	0.073767	4.0183440.0		
6	21.25	11.7	21.782722	1538052.19	19026.09	0.04	20.0	0.080347	5.2199346.8		
7	13.27	14.1	13.752940	4824352.62	12176.31	0.04	20.0	0.051384	0.1127433.2		
8	29.23	17.0	30.699363	9345707.41	22853.71	0.04	20.0	0.096541	9.3240713.5		
9	21.25	20.5	22.744759	1720589.22	10294.61	0.04	20.0	0.043628	3.0111129.8		
10	21.25	23.5	23.215484	357122.8	3561.4	0.04	20.0	0.015041	9.842379.1		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 110 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 600.389 \quad yc = 578.498 \quad Rc = 443.951 \quad Fs = 1.589$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	1.48	-2.7	1.5	433.09	19.92	9.96	0.02	18.0	0.0	446.8	277.8
2	38.62	-0.1	38.64	03481.318560	14.9280	0.07	0.02	18.0	0.04	03695.587389	0.0
3	20.05	3.6	20.1486	065.322359	0	11179.5	0.04	20.0	0.0479723	8.114915	2.0
4	20.05	6.2	20.2628	801.828924	8814462.44	0.04	0.04	20.0	0.0616546	3.146268	3.0
5	20.05	8.9	20.3732	711.433704	7216852.36	0.04	0.04	20.0	0.0715233	9.168899	0.0
6	15.24	11.2	15.5601	773.327681	5713840.79	0.04	0.04	20.0	0.0586116	8.138134	2.0
7	24.85	13.8	25.6912	544.141977	0320988.51	0.04	0.04	20.0	0.0888133	0.209829	0.0
8	20.05	16.8	20.9566	747.126070	3713035.18	0.04	0.04	20.0	0.0552256	6.131741	1.0
9	20.05	19.6	21.3369	494.016996	728498.36	0.04	0.04	20.0	0.0360854	4.87992	0.0
10	20.05	22.3	21.7126	656.45826	192913.1	0.04	0.04	20.0	0.0123102	8.33645	5.0

$$xc = 619.047 \quad yc = 564.952 \quad Rc = 428.314 \quad Fs = 1.691$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.32	-2.6	20.3118	299.15441	762720.88	0.02	0.02	18.0	0.0119585	7.25383	0.0
2	20.32	0.1	20.3345	109.415875	037937.52	0.04	0.04	20.0	0.0344975	8.79056	5.0
3	20.32	2.8	20.3544	758.925058	9112529.46	0.04	0.04	20.0	0.0539467	1.120923	1.0
4	20.32	5.5	20.4703	094.032342	3216171.16	0.04	0.04	20.0	0.0691483	4.153658	7.0
5	23.42	8.5	23.7953	132.143844	0721922.04	0.04	0.04	20.0	0.0932879	6.206387	9.0
6	17.22	11.3	17.6710	499.932683	016341.5	0.04	0.04	20.0	0.0693885	9.153498	9.0
7	20.32	13.8	20.9736	390.333873	9516936.98	0.04	0.04	20.0	0.0719056	9.159714	2.0
8	20.32	16.6	21.2582	475.026793	8513396.92	0.04	0.04	20.0	0.0569785	4.127653	0.0
9	20.32	19.5	21.6381	745.517560	298780.15	0.04	0.04	20.0	0.0374620	7.85729	7.0
10	20.32	22.4	22.0131	848.86065	043032.52	0.04	0.04	20.0	0.0129026	4.32970	2.0

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 111 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 637.706 \quad yc = 578.498 \quad Rc = 453.198 \quad Fs=1.814$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	20.05	-8.6	20.3121842	1842.556	04.75	2802.38	0.02	18.0	0.0127005	324990.0	
2	37.44	-4.9	37.6971867	144705.892	2352.94	0.04	20.0	0.0993436	1207662.0		
3	28.74	-0.7	28.71355858	062369.483	1184.74	0.04	20.0	0.01359609	0279201.9		
4	28.74	2.9	28.81766941	081279.274	0639.63	0.04	20.0	0.01751125	0357783.3		
5	19.08	5.9	19.21344081	061827.723	0913.86	0.04	20.0	0.01323304	0269806.6		
6	38.4	9.6	38.92733205	0125727.462	863.72	0.04	20.0	0.02679616	0546366.9		
7	28.74	13.9	29.61815840	083528.634	1764.32	0.04	20.0	0.01780611	0363884.9		
8	28.74	17.7	30.21488895	068489.193	4244.59	0.04	20.0	0.01466845	0301038.1		
9	28.74	21.6	30.91034477	047585.932	3792.96	0.04	20.0	0.01028130	0213153.8		
10	28.74	25.5	31.9443004	420378.2	10189.1	0.04	20.0	0.0444960	196325.7		

$$xc = 656.364 \quad yc = 564.952 \quad Rc = 436.641 \quad Fs=1.941$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.84	-10.1	0.9	225.95	10.39	5.2	0.02	18.0	0.0	252.8	130.5
2	54.41	-6.5	54.81191045	054788.052	7394.03	0.04	20.0	0.01226074	0241144.3		
3	27.63	-1.1	27.61369753	063008.633	1504.31	0.04	20.0	0.01374908	0263458.1		
4	31.97	2.8	32.02065515	095013.694	7506.84	0.04	20.0	0.02048653	0390672.4		
5	23.28	6.5	23.41647995	075807.773	7903.88	0.04	20.0	0.01623468	0309192.7		
6	27.63	9.9	28.01883388	086635.854	3317.93	0.04	20.0	0.01850327	0352673.1		
7	27.63	13.6	28.41703230	078348.563	9174.28	0.04	20.0	0.01674928	0319867.5		
8	27.63	17.3	28.91412554	064977.532	488.75	0.04	20.0	0.01396184	0267716.4		
9	27.62	21.2	29.61005156	046237.172	3118.58	0.04	20.0	0.01002737	0194095.1		
10	27.63	25.1	30.5415099	319094.57	9547.28	0.04	20.0	0.0418703	884784.0		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 112 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 675.023 \quad yc = 578.498 \quad Rc = 444.714 \quad Fs=2.071$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	26.44	-8.1	26.7264448	0.12164	6.16082	31	0.02	18.0	0.0273525	25.745502	2.2
2	26.44	-4.6	26.5802381	7.36909	5.56184	54	0.04	20.0	0.0817045	7.148748	0.8
3	26.44	-1.2	26.4125266	2.05762	2.45288	11	0.04	20.0	0.0125773	38.022619	8.8
4	15.18	1.5	15.2887077	1.40805	5.52040	2	0.04	20.0	0.0883314	6.158204	9.9
5	37.71	4.9	37.8238302	7.01096	19.25480	9	0.04	20.0	0.0235570	1.042140	4.0
6	26.44	9.0	26.8162240	4.07463	0.63731	5	0.04	20.0	0.0159731	0.028595	3.1
7	26.44	12.5	27.1148205	9.06817	4.69340	8	0.04	20.0	0.0146000	5.026187	7.2
8	26.44	16.0	27.5124777	0.05739	7.41286	9	0.04	20.0	0.0123439	4.022230	0.8
9	23.97	19.4	25.48455	4.38895	0.19447	5	0.04	20.0	0.084266	4.215303	6.4
10	28.92	23.1	31.44157	16.01912	2.94956	1	0.04	20.0	0.0418035	5.579557	5.5

$$xc = 693.681 \quad yc = 564.952 \quad Rc = 428.283 \quad Fs=2.243$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.73	-8.9	26.02624	8.91207	4.49603	7	0.04	20.0	0.0273365	0.048994	0.0
2	25.73	-5.4	25.87927	4.31364	6.18182	3	0.04	20.0	0.0809240	3.135898	2.2
3	27.97	-1.8	28.01365	2.56062	8.01773	1	0.04	20.0	0.0137323	0.022778	0.6
4	23.49	1.6	23.51379	9.33063	4.76931	7	0.04	20.0	0.0137407	9.022711	7.5
5	25.73	4.9	25.81561	9.77071	8.50963	5	0.04	20.0	0.0154578	2.025538	9.5
6	25.73	8.4	26.01531	7.77607	0.46168	3	0.04	20.0	0.0151149	9.024986	0.0
7	25.73	11.9	26.31415	2.21065	1.00163	2	0.04	20.0	0.0139751	5.023141	8.5
8	25.73	15.4	26.71209	4.24055	6.33522	7	0.04	20.0	0.0119960	7.019938	1.2
9	14.59	18.2	15.45574	0.40142	5.64046	1	0.04	20.0	0.0556246	1.92982	8.8
10	36.88	21.9	39.86557	18.93016	3.07150	8	0.04	20.0	0.0660840	3.114301	0.0



	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 113 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 712.339 \quad yc = 578.498 \quad Rc = 447.458 \quad Fs=2.498$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	29.35	-11.3	29.9386776	117791.7	8895.85	0.04	20.0	0.0407241	0.064125.6		
2	29.35	-7.5	29.61148376	052825.2926412.64	0.04	20.0	0.01181516	0.0176881.8			
3	25.28	-4.0	25.31505644	069259.6334629.82	0.04	20.0	0.01524978	0.0226241.5			
4	33.41	-0.2	33.42402754	0110526.755263.35	0.04	20.0	0.02404070	0.0355613.6			
5	29.35	3.8	29.42232957	0102716.051358.01	0.04	20.0	0.02216075	0.0327583.2			
6	29.35	7.6	29.62223838	0102296.551148.26	0.04	20.0	0.02200146	0.0325293.5			
7	29.35	11.4	29.92092759	096266.9148133.45	0.04	20.0	0.02073023	0.0306825.3			
8	19.54	14.6	20.21256880	057816.4728908.24	0.04	20.0	0.01250559	0.0185435.3			
9	39.15	18.6	41.31787231	082212.6241106.31	0.04	20.0	0.01795215	0.0268168.9			
10	29.35	23.2	31.9417639	019211.39	9605.7	0.04	20.0	0.0425700	0.067137.2		

$$xc = 730.998 \quad yc = 564.952 \quad Rc = 419.245 \quad Fs=2.757$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	23.32	-9.3	23.6222935	810255.05	5127.52	0.04	20.0	0.0231504	0.533986.7		
2	19.26	-6.4	19.4523121	124063.5712031.79	0.04	20.0	0.0534603	0.173378.8			
3	27.38	-3.2	27.41072040	049313.8524656.92	0.04	20.0	0.01081880	0.0146785.2			
4	23.32	0.3	23.31062288	048865.2424432.62	0.04	20.0	0.01061601	0.0143513.5			
5	23.32	3.5	23.41133176	052126.0926063.04	0.04	20.0	0.01126039	0.0152025.4			
6	23.32	6.7	23.51140134	052446.1626223.08	0.04	20.0	0.01130061	0.0152573.1			
7	23.32	9.9	23.71082201	049781.2524890.63	0.04	20.0	0.01073230	0.0145099.6			
8	20.34	12.9	20.9844047	438826.1819413.09	0.04	20.0	0.0839868	0.8113889.4			
9	26.3	16.2	27.4769534	735398.59	17699.3	0.04	20.0	0.0770716	0.1105707.8		
10	23.32	19.8	24.8220152	410127.01	5063.51	0.04	20.0	0.0222135	0.932917.3		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 114 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 749.656 \quad yc = 578.498 \quad Rc = 415.741 \quad Fs=3.002$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	14.97	-5.1	15.039850.161833.11	916.55	0.02	18.0	0.040486.6	5383.4			
2	14.97	-3.0	15.0112340.95167.68	2583.84	0.04	20.0	0.0113326.015737.4				
3	14.97	-1.0	15.0173253.87969.68	3984.84	0.04	20.0	0.0173660.323049.9				
4	14.97	1.1	15.0217205.09991.43	4995.72	0.04	20.0	0.0216697.028267.8				
5	14.97	3.2	15.0244189.011232.7	5616.35	0.04	20.0	0.0242819.631437.6				
6	14.97	5.2	15.0254136.511690.28	5845.14	0.04	20.0	0.0252213.732581.9				
7	14.97	7.3	15.1246915.311358.1	5679.05	0.04	20.0	0.0244872.131699.8				
8	14.97	9.4	15.2222314.210226.45	5113.23	0.04	20.0	0.0220579.228765.3				
9	9.9	11.2	10.1124632.85733.11	2866.56	0.04	20.0	0.0123807.216355.1				
10	20.04	13.3	20.6112444.25172.44	2586.22	0.04	20.0	0.0111687.616284.8				

$$xc = 768.315 \quad yc = 564.952 \quad Rc = 396.994 \quad Fs=3.127$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	10.69	-2.8	10.715827.21	728.05	364.03	0.02	18.0	0.015960.5	2342.8		
2	10.69	-1.3	10.743198.391987.13	993.56	0.02	18.0	0.043322.1	5185.0			
3	10.69	0.3	10.766762.97	3071.1	1535.55	0.04	20.0	0.066717.5	9132.5		
4	10.69	1.8	10.785059.953912.76	1956.38	0.04	20.0	0.084743.911231.2				
5	10.69	3.4	10.796884.264456.68	2228.34	0.04	20.0	0.096310.312579.1				
6	10.69	4.9	10.7102210.54701.68	2350.84	0.04	20.0	0.0101453.413180.4				
7	10.69	6.5	10.8100998.94645.95	2322.98	0.04	20.0	0.0100167.913034.5				
8	10.69	8.0	10.893197.234287.07	2143.54	0.04	20.0	0.092408.012136.1				
9	5.87	9.2	6.045369.022086.98	1043.49	0.04	20.0	0.044989.8	5997.4			
10	15.51	10.8	15.855810.612567.29	1283.64	0.02	18.0	0.055524.6	6778.7			

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 115 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 395.147 \quad yc = 592.043 \quad Rc = 523.297 \quad Fs = 1.907$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	49.61	-14.5	51.2811030	537307.4	18653.7	0.04	20.0	0.0884207	5179511.0		
2	41.83	-9.4	42.41840501	084663.044	2331.52	0.04	20.0	0.01927707	0376821.2		
3	45.72	-4.5	45.93003689	0138169.769	084.84	0.04	20.0	0.03060400	0593736.9		
4	57.44	1.1	57.54669549	0214799.210	7399.6	0.04	20.0	0.04652970	0900129.8		
5	34.0	6.1	34.22988420	0137467.368	733.66	0.04	20.0	0.02944477	0569163.4		
6	45.72	10.5	46.54080160	0187687.393	843.67	0.04	20.0	0.04006099	0774370.1		
7	66.28	16.9	69.35281840	0242964.612	1482.3	0.04	20.0	0.05213420	01009576.0		
8	25.17	22.2	27.21604070	073787.213	6893.61	0.04	20.0	0.01605004	0312035.7		
9	45.72	26.5	51.12248118	0103413.451	706.71	0.04	20.0	0.02288441	0447490.6		
10	45.72	32.2	54.0907318	241736.642	0868.32	0.04	20.0	0.0950916	0192830.0		

$$xc = 432.463 \quad yc = 592.043 \quad Rc = 502.405 \quad Fs = 1.726$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh*Wi (Kg)	Kv*Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	36.34	-9.4	36.8380595	217507.38	8753.69	0.04	20.0	0.0401127	093129.6		
2	36.34	-5.2	36.51050981	048345.122	4172.56	0.04	20.0	0.01076727	0235527.2		
3	28.82	-1.5	28.81173177	053966.152	6983.08	0.04	20.0	0.01180117	0255556.7		
4	43.85	2.7	43.92229127	0102539.851	269.91	0.04	20.0	0.02209286	0476089.6		
5	36.34	7.3	36.62078224	095598.294	7799.14	0.04	20.0	0.02039115	0438517.9		
6	36.34	11.5	37.12071399	095284.384	7642.19	0.04	20.0	0.02025203	0435687.6		
7	29.47	15.3	30.61525585	070176.893	5088.45	0.04	20.0	0.01493588	0322063.3		
8	43.21	19.7	45.91915984	088135.244	4067.62	0.04	20.0	0.01888655	0408934.2		
9	36.34	24.6	40.01153383	053055.632	6527.81	0.04	20.0	0.01152925	0252401.9		
10	36.34	29.2	41.6455746	420964.331	0482.17	0.04	20.0	0.0462332	7107153.8		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 116 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 469.78 \quad yc = 592.043 \quad Rc = 481.884 \quad Fs = 1.557$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.34	-2.6	25.4133086.06121.96	3060.98	0.02	18.0	0.0134656.731354.5				
2	25.34	0.4	25.3373535.317182.63	8591.31	0.04	20.0	0.0372889.893664.3				
3	25.34	3.4	25.4547825.425199.9712599.99		0.04	20.0	0.0540863.9132935.7				
4	25.34	6.4	25.5650748.329934.4214967.21		0.04	20.0	0.0637323.1155510.6				
5	25.34	9.5	25.7681312.631340.3815670.19		0.04	20.0	0.0663733.1161732.1				
6	18.15	12.1	18.6464501.721367.0810683.54		0.04	20.0	0.0451410.7110274.7				
7	32.54	15.2	33.7796677.936647.1818323.59		0.04	20.0	0.0774060.9189580.6				
8	25.34	18.8	26.8542906.324973.6912486.84		0.04	20.0	0.0529085.3130539.0				
9	25.34	22.0	27.3385461.517731.23	8865.62	0.04	20.0	0.0377308.795210.3				
10	25.34	25.3	28.0142146.26538.73	3269.36	0.02	18.0	0.0141581.533142.3				

$$xc = 507.097 \quad yc = 592.043 \quad Rc = 482.994 \quad Fs = 1.511$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	29.38	-5.6	29.5224530.710328.41	5164.21	0.04	20.0	0.0231892.563684.8				
2	29.38	-2.1	29.4641931.129528.8314764.42		0.04	20.0	0.0648481.1164019.1				
3	29.38	1.4	29.4948766.143643.2421821.62		0.04	20.0	0.0943469.3235085.9				
4	29.38	4.8	29.51145172.052677.8926338.95		0.04	20.0	0.01125621.0278996.6				
5	17.42	7.6	17.6724440.633324.2716662.13		0.04	20.0	0.0707443.7175093.8				
6	41.34	11.2	42.11878590.086415.1343207.56		0.04	20.0	0.01825784.0451033.8				
7	29.38	15.5	30.51376058.063298.6731649.33		0.04	20.0	0.01336454.0330056.7				
8	43.28	20.0	46.11815012.083490.5741745.29		0.04	20.0	0.01771803.0439070.5				
9	15.47	23.8	16.9468864.621567.7710783.89		0.04	20.0	0.0461393.0115636.8				
10	29.38	26.7	32.9369471.116995.67	8497.83	0.04	20.0	0.0364996.196645.2				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 117 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 544.414 \quad yc = 592.043 \quad Rc = 463.027 \quad Fs=1.394$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	18.71	0.8	18.751999.662391.98	1195.99	0.02	18.0	0.051790.014757.9				
2	19.48	3.2	19.5143581.76604.76	3302.38	0.02	18.0	0.0141801.035857.2				
3	17.93	5.5	18.0213967.29842.49	4921.25	0.04	20.0	0.0209183.859795.1				
4	18.71	7.8	18.9323178.414866.21	7433.1	0.04	20.0	0.0314210.587471.5				
5	18.71	10.1	19.0394992.318169.65	9084.82	0.04	20.0	0.0382418.2105318.3				
6	18.71	12.5	19.2435669.020040.7810020.39		0.04	20.0	0.0420669.8115352.6				
7	18.71	14.9	19.4444430.220443.79	10221.9	0.04	20.0	0.0428632.8117488.1				
8	21.25	17.5	22.3474217.721814.0110907.01		0.04	20.0	0.0457533.4125874.1				
9	16.16	19.9	17.2264096.912148.46	6074.23	0.04	20.0	0.0254982.971518.9				
10	18.71	22.2	20.2106858.84915.51	2457.75	0.04	20.0	0.0102164.332478.4				

$$xc = 581.731 \quad yc = 592.043 \quad Rc = 459.596 \quad Fs=1.514$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	15.5	-1.2	15.543147.71	1984.8	992.4	0.02	18.0	0.043391.311360.1			
2	24.7	1.3	24.7268371.512345.09	6172.54	0.02	18.0	0.0267042.660574.9				
3	20.1	4.1	20.2413923.519040.48	9520.24	0.04	20.0	0.0407553.1103302.6				
4	20.1	6.6	20.2550962.325344.2712672.13		0.04	20.0	0.0538977.8134920.0				
5	20.1	9.2	20.4650119.429905.4914952.75		0.04	20.0	0.0633098.1157580.0				
6	29.0	12.3	29.71036872.047696.123848.05		0.04	20.0	0.01006757.0249870.8				
7	11.21	14.9	11.6386234.817766.8	8883.4	0.04	20.0	0.0374874.593185.0				
8	20.1	16.9	21.0567567.826108.1213054.06		0.04	20.0	0.0551233.3138070.0				
9	20.1	19.5	21.3368882.616968.6	8484.3	0.04	20.0	0.0358807.591894.4				
10	20.1	22.2	21.7125838.65788.58	2894.29	0.04	20.0	0.0121642.834980.1				

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 118 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 619.047 \quad yc = 592.043 \quad Rc = 453.204 \quad Fs = 1.72$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	19.62	-1.6	19.6103883	24778.63	2389.31	0.02	18.0	0.0104559	822032.1		
2	19.62	0.8	19.6302454	313912.9	6956.45	0.04	20.0	0.0301490	868354.4		
3	19.62	3.3	19.7479915	722076.12	11038.06	0.04	20.0	0.0474634	5104996.1		
4	19.62	5.8	19.7622161	028619.41	14309.7	0.04	20.0	0.0611739	6134021.2		
5	19.29	8.3	19.5715784	832926.1	16463.05	0.04	20.0	0.0701071	7152869.3		
6	19.96	10.8	20.3745098	334274.52	17137.26	0.04	20.0	0.0728238	5158807.8		
7	19.62	13.4	20.2635478	329232.0	14616.0	0.04	20.0	0.0620843	4136050.9		
8	19.62	15.9	20.4500837	023038.5	11519.25	0.04	20.0	0.0489897	7108400.1		
9	19.62	18.5	20.7326785	415032.13	7516.06	0.04	20.0	0.0320321	572587.6		
10	19.62	21.2	21.0111625	75134.78	2567.39	0.04	20.0	0.0108885	927931.8		

$$xc = 656.364 \quad yc = 592.043 \quad Rc = 461.174 \quad Fs = 1.935$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.13	-7.3	27.4268599	112355.56	6177.78	0.02	18.0	0.0277048	749359.1		
2	27.13	-3.9	27.2810341	637275.71	18637.86	0.04	20.0	0.0823027	7160466.6		
3	27.13	-0.5	27.1126441	9058163.28	29081.64	0.04	20.0	0.0126654	70243897.1		
4	28.0	2.9	28.0168463	2077493.09	38746.54	0.04	20.0	0.0167041	90320067.7		
5	26.27	6.3	26.4172527	6079362.67	39681.34	0.04	20.0	0.0169979	40325261.5		
6	27.13	9.7	27.5171270	2078784.33	39215	0.04	20.0	0.0168247	80322230.6		
7	27.13	13.1	27.9154774	1071196.09	35598.05	0.04	20.0	0.0152117	40291952.4		
8	27.13	16.6	28.3128418	9059072.68	29536.34	0.04	20.0	0.0126723	40244270.3		
9	27.13	20.2	28.9917124	142187.71	21093.85	0.04	20.0	0.0911809	8177523.4		
10	27.13	23.8	29.7376863	017335.7	8667.85	0.04	20.0	0.0377833	977217.2		

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 119 di 120	<b>Rev.</b> <b>0</b>

Rif. TFM: 110009-0E-RT-E-5047\_Annesso 3

$$xc = 693.681 \quad yc = 592.043 \quad Rc = 453.193 \quad Fs=2.271$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	25.35	-7.9	25.6242	116.311	137.35	5568.68	0.04	20.0	0.0250	637.644	675.0
2	25.35	-4.7	25.4735	621.133	838.571	6919.29	0.04	20.0	0.0748	253.312	4397.1
3	24.58	-1.5	24.6111	2419.051	1171.292	585.64	0.04	20.0	0.0111	17657.018	3451.0
4	26.11	1.7	26.1141	9799.065	310.753	2655.38	0.04	20.0	0.0141	3591.023	1149.0
5	25.35	5.0	25.4142	8457.065	709.013	2854.5	0.04	20.0	0.0141	3789.023	1060.5
6	25.35	8.2	25.6140	1122.064	451.593	2225.8	0.04	20.0	0.0138	3015.022	6157.6
7	25.35	11.4	25.9129	5928.059	612.682	9806.34	0.04	20.0	0.0127	9764.020	9654.7
8	25.35	14.7	26.2111	10540.051	084.842	5542.42	0.04	20.0	0.0110	0678.018	1014.9
9	13.51	17.3	14.1486	149.622	362.881	1181.44	0.04	20.0	0.0484	208.080	092.8
10	37.18	20.7	39.7627	746.428	876.341	4438.17	0.04	20.0	0.0630	218.310	8001.4

$$xc = 730.998 \quad yc = 592.043 \quad Rc = 453.587 \quad Fs=2.794$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	27.25	-10.6	27.7324	4450.114	924.71	7462.35	0.04	20.0	0.0339	080.748	141.0
2	32.73	-6.8	33.0123	1206.056	635.482	8317.74	0.04	20.0	0.0125	9844.016	8840.3
3	21.76	-3.3	21.8116	6541.053	660.892	6830.45	0.04	20.0	0.0117	7510.015	6516.6
4	27.25	-0.2	27.2163	6306.075	270.063	7635.03	0.04	20.0	0.0163	7088.021	7166.5
5	27.25	3.2	27.3174	2752.080	166.6	40083.3	0.04	20.0	0.0173	2541.022	9607.5
6	27.25	6.7	27.4175	5011.080	730.524	0365.26	0.04	20.0	0.0173	9991.023	0598.6
7	37.5	10.8	38.2226	3810.010	4135.25	2067.62	0.04	20.0	0.0224	7827.029	8293.2
8	17.0	14.4	17.5855	528.139	354.291	9677.15	0.04	20.0	0.0854	001.311	3763.9
9	27.25	17.3	28.5942	969.343	376.592	1688.29	0.04	20.0	0.0947	842.812	7561.8
10	27.25	20.9	29.2317	363.914	598.74	7299.37	0.04	20.0	0.0322	122.646	139.5

	<b>PROGETTISTA</b> 	<b>COMMESSA</b> <b>5721</b>	<b>UNITA</b> <b>000</b>
	<b>LOCALITA'</b> <b>REGIONE PUGLIA</b>	<b>SPC. RT-E-0047</b> <b>ANNESSO 3</b>	
	<b>PROGETTO</b> <b>Gasdotto Lucera - San Paolo di Civitate,</b> <b>DN 300 (12"), DP 75 bar e opere connesse</b>	Pagina 120 di 120	<b>Rev.</b> <b>0</b>

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$$xc = 768.315 \quad yc = 592.043 \quad Rc = 422.455 \quad Fs=3.199$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm2)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	9.1	-1.2	9.19212.19	423.76	211.88	0.02	18.0	0.09245.6	1508.2		
2	9.1	0.0	9.125162.411157.47	578.74	0.02	18.0	0.025160.1	3124.7			
3	9.1	1.3	9.137814.761739.48	869.74	0.02	18.0	0.037726.1	4401.3			
4	9.1	2.5	9.147896.952203.26	1101.63	0.04	20.0	0.047655.2	6561.6			
5	9.1	3.7	9.154871.052524.07	1262.03	0.04	20.0	0.054507.7	7342.7			
6	9.1	5.0	9.158076.392671.51	1335.76	0.04	20.0	0.057625.3	7699.3			
7	9.1	6.2	9.257494.282644.74	1322.37	0.04	20.0	0.057002.9	7630.9			
8	9.1	7.5	9.253099.642442.58	1221.29	0.04	20.0	0.052618.6	7135.0			
9	7.23	8.6	7.336478.8	1678.03	839.01	0.04	20.0	0.036133.3	5026.4		
10	10.96	9.8	11.125555.071175.53	587.77	0.02	18.0	0.025368.9	3272.8			