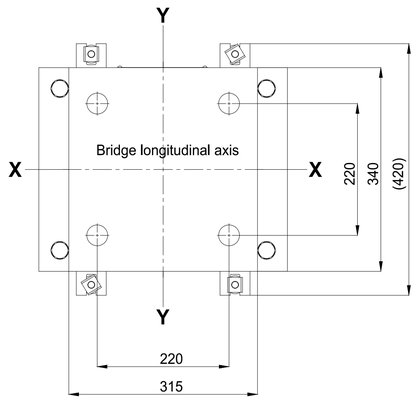
Bottom View




TECHNICAL DATA

**The following input loads, dispalcements and rotations must be checked and approved by the Structural Designer!**

Forces, displacements and rotations at Ultimate Limit State

| | | |
|---|---|---|
| Max. vertical load (NSd,max) | Fz,max = | 2602,0 kN |
| Min. vertical load (NSd,min) | Fz,min = | 781,0 kN |
| Max. displ. along x-axis (dxd,max) | dx,max = | 20 mm |
| Max. displ. along y-axis (dyd,max) | dy,max = | 14 mm |
| Max. rotation around x-axis (αxd,max) | | |
| Max. rotation around y-axis (αyd,max) | | |

Forces, displacements and rotations at Seismic Ultimate Limit State

| | | |
|---|---|---|
| Max. vertical load (NEd,max) | Fz,max = | 1141,0 kN |
| Min. verical load (NEd,min) | Fz,min = | 781,0 kN |
| Max. displ. along x-axis (dxEd) | dx,max = | 91 mm |
| Max. displ. along y-axis (dyEd) | dy,max = | 64 mm |
| Pure seismic displ. component along x-axis (dxbd) | dx,bd = | 91 mm |
| Pure seismic displ. component along y-axis (dybd) | dy,bd = | 64 mm |
| Max. rotation around x-axis (αxEd,max) | | |
| Max. rotation around y-axis (αyEd,max) | | |

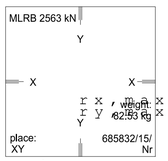
Equivalent damping factor at dbd

| | | |
|---|---|---|
| Effective horiz. stiffness at dbd | Kb(dxy=dxy,bd)= | 1,7 kN/mm ca. |
| Form factor | S = | 13,4 -- |
| Max. horizontal force | Fxy,max = | 193 kN |

The Structural Designer must verify the connections to the structure

Friction coefficients:
- superstructure (steel) μd = 0,2
- substructure (concrete) μd = 0,5

Lagerkennzeichnung / Bearing marking




* Typenschild

| BA | Nr | XY |
|---|---|---|
| 1 | 1 | VI12-SP.N.2/A |
| 1 | 2 | VI12-SP.N.2/B |
| 1 | 3 | VI12-SP.N.2/C |
| 1 | 4 | VI12-P1N.1/A |
| 1 | 5 | VI12-P1N.1/B |
| 1 | 6 | VI12-P1N.1/C |
| 1 | 7 | VI12-P1N.2/A |
| 1 | 8 | VI12-P1N.2/B |
| 1 | 9 | VI12-P1N.2/C |
| 1 | 10 | VI12-P2N.1/A |
| 1 | 11 | VI12-P2N.1/B |
| 1 | 12 | VI12-P2N.1/C |
| 1 | 13 | VI12-P2N.2/A |
| 1 | 14 | VI12-P2N.2/B |
| 1 | 15 | VI12-P2N.2/C |
| 1 | 16 | VI12-P3N.1/A |
| 1 | 17 | VI12-P3N.1/B |
| 1 | 18 | VI12-P3N.1/C |
| 1 | 19 | VI12-P3N.2/A |
| 1 | 20 | VI12-P3N.2/B |
| 1 | 21 | VI12-P3N.2/C |
| 1 | 22 | VI12-P4N.1/A |
| 1 | 23 | VI12-P4N.1/B |
| 1 | 24 | VI12-P4N.1/C |

KORROSIONSSCHUTZ / CORROSION PROTECTION
- Strahlen / Shot blasting → SA 3
- Spritzverzinkung / Zink thermal spraying → 100 µm
- Eisenglimmer DB704 / Micacoeus iron oxide DB 704 → 180 µm

Nur Strahlen / only shot blasting:
- Betonanschlussflächen bis 50mm vom Rand / Surfaces against concrete parts of the structure (up to 50mm from the border)

Nur Spritzverzinkung / Zink thermal spraying
- Kontaktfläche zwischen Lagerplatten und Kissen bis 20mm vom Kissenrand / Surfaces in contact between pad and bearing plates (up to 20mm from the pad border)
- Stahlanschlussflächen / Surfaces against steel parts of the structure

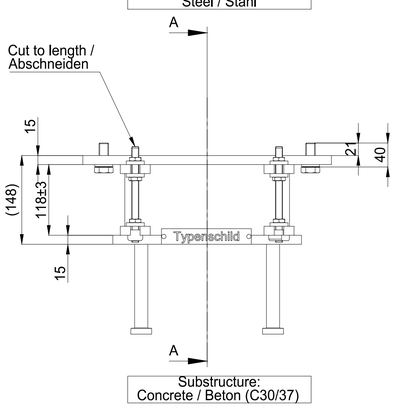
ANZAHL VON LAGERN / NO. OF BEARINGS
- 60 St. / pcs.

EINBAUORT / INSTALLATION PLACE
-
V12-SP.N.2/A; V12-SP.N.2/B; V12-SP.N.2/C; V12-P1N.1/A; V12-P1N.1/B; V12-P1N.1/C; V12-P1N.2/A; V12-P1N.2/B; V12-P1N.2/C; V12-P2N.1/A; V12-P2N.1/B; V12-P2N.1/C; V12-P2N.2/A; V12-P2N.2/B; V12-P2N.2/C; V12-P3N.1/A; V12-P3N.1/B; V12-P3N.1/C; V12-P3N.2/A; V12-P3N.2/B; V12-P3N.2/C; V12-P4N.1/A; V12-P4N.1/B; V12-P4N.1/C; VI13-P6P.2/A; VI13-P6P.2/B; VI13-P6P.2/C; VI13-P7P.1/A; VI13-P7P.1/B; VI13-P7P.1/C; VI13P7P.2/A; VI13-P7P.2/B; VI13-P7P.2/C; VI13-P8P.1/A; VI13-P8P.1/B; VI13-P8P.1/C; V14-SP.S.2/A; V14-SP.S.2/B; V14-SP.S.2/C; V14-P1S.1/A; V14-P1S.1/B; V14-P1S.1/C; V14-P1S.2/A; V14-P1S.2/B; V14-P1S.2/C; V14-P2S.1/A; V14-P2S.1/B; V14-P2S.1/C; V14-P2S.2/A; V14-P2S.2/B; V14-.2/C; V14-P3S.1/A; V14-P3S.1/B; V14-P3S.1/C; V14-P3S.2/A; V14-P3S.2/B; V14-P3S.2/C; V14-P4S.1/A; V14-P4S.1/B; V14-P4S.1/C

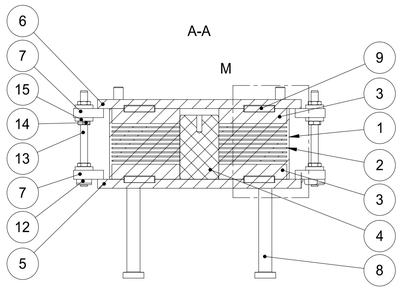
WERKSTATT / WORKSHOP
- Lager mit Typenschild / Bearing with name plate
- ZBH-Teile rot markieren / Lock parts red marked
- Schweißnähte gemäß DIN EN ISO 5817 Bewertungsgruppe B; Schweißnähte des ZBH Bewertungsgruppe C; Schweißnähte a=4mm, soweit nicht anders bezeichnet / Welds acc. to DIN EN 5817 Category B; welds of lock system Catregory C; fillet welds a4 when not otherwise indicated
- X,Y-Achse Stirnseitig am Lagerober/-unterteil markiert / Axes X and Y marked on the top and botton surface of the bearing
- Schrauben mit MoS2 geschmiert / Bolts lubricated with MoS2

BAUSTELLE / SITE
- Eibau nach EN 1337 and EN 15129 / Installation acc. to EN 1337 and EN 15129
- Lager waagerecht einbauen (max. Neigung in jeder Richtung 5‰) / Install the bearing horizontally (max. slope in each direction 5‰)
- Sobald die Lagerplatten an der Struktur fest verbunden sind, ZBH-Teile entfernen / As soon as both plates are rigidly connected to the structure, remove the lock parts (red marked)

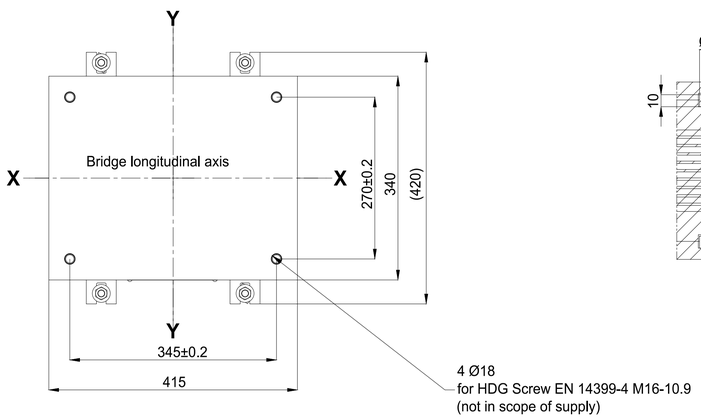
Superstructure:
Steel / Stahl



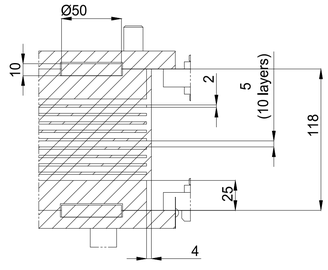

Substructure:
Concrete / Beton (C30/37)




Top View




M (2 : 5)




LO = loose delivered

Stücklistentabelle

| PosNr | Stück | Benennung / Description | Rohmaße / raw dimensions | Material | Material-zeugnis / Certificate | Norm / Standard | Sach-nummer | Bem. / Notes |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Elastomer | 275x 300x 118 | MEN - RB1 | | | --- | |
| 2 | 9 | Bewehrungsblech | Bl 2x 292x 267 | S355MC | 3.1 | | --- | |
| 3 | 2 | Bewehrungsplatte | Bl 25x 267x 292 | S355J2+N | 3.1 | | --- | |
| 4 | 1 | Bleikern | Rd 65x 107 | Reines Blei | 3.1 | | --- | |
| 5 | 1 | Lagerplatte unten | Bl 15x 340x 315 | S355J2+N | 3.1 | | --- | |
| 6 | 1 | Lagerplatte oben | Bl 15x 340x 415 | S355J2+N | 3.1 | | --- | |
| 7 | 8 | Zus.-Bauhalter M12 | Bl 15x 50x 50 | S355J2+N | | | 202205 | |
| 8 | 4 | Kopfbolzen Ø22x150 | | S235J2+C450 | | | 200051 | |
| 9 | 4 | Dübelscheibe Ø50x10 | | S355J2+N | 3.1 | | 201424 | |
| 10 | 1 | Typenschild_CE | | PVC hart | | | 202188 | |
| 11 | 2 | Halbrundkerbnagel Ø4x 10 | | A4 | | ISO 8746 | 500851 | |
| 12 | 4 | Nutstein M 12 | | 8 | | DIN 508 | 500858 | |
| 13 | 4 | Gewindebolzen M12x160 | | 8.8 | | DIN 976-1 | 503425 | |
| 14 | 12 | 6kt-Mutter M 12 | | 4 | | EN ISO 4035 | 502231 | |
| 15 | 12 | Scheibe 13 | | 4 | | DIN 7349 | 502190 | |

| Index | | | |
|---|---|---|---|
| A | General revision | Puppatti | 30.09.16 |
| **Index** | **Art der Änderung / revision** | **Name** | **Datum date** |

| | | | | | | |
|---|---|---|---|---|---|---|
| Allgemeintoleranzen / general tolerances: DIN ISO 2768-1-c | Oberfläche / surface: | Gewicht / weight: 82.53 kg | Maßstab / scale: 1:5 | Material: | | |
| | | | | Zeugnis / certificate: | | |

| | Datum/ date | Name | Abt./ dep. | Auftrags-Nr.: order-no.: 685832 | Blatt-Nr.: part list-no.: 15 | Index A |
|---|---|---|---|---|---|---|
| erstellt: created: | 10.08.16 | Puppatti | TBL | | | |
| geprüft: checked: | | | | | | |

MAURER

| | |
|---|---|
| Bauwerk: building: | Viadotti Aurelia Bis |
| Benennung: title: | MLRB 2563 kN |
| Auftraggeber: client: | TOTO SpA |

| | | | | |
|---|---|---|---|---|
| Sach-Nr./ ident-no.: 0 | Datei / file: 685832_15_LRB | | Zeichn.-Nr: draw.-no: 1 | von: of: 1 |
| Ersatz für: | Ersatz durch: | Format A1 | | |

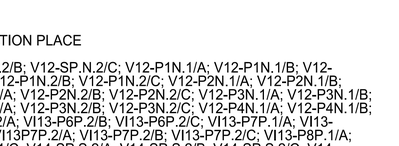


ANAS S.p.A.
Direzione Progettazione e Realizzazione Lavori

**VARIANTE ALLA S.S.1 AURELIA (AURELIA BIS)**
**VIABILITA' DI ACCESSO ALL' HUB PORTUALE DI LA SPEZIA**
**INTERCONNESSIONE TRA I CASELLI DELLA A-12 E IL PORTO DI LA SPEZIA**
**3° LOTTO TRA FELETTINO E IL RACCORDO AUTOSTRADALE**

**PROGETTO ESECUTIVO DI STRALCIO E COMPLETAMENTO C - 3° TRATTO**

**PROGETTO ESECUTIVO** | **GE265**



CESI Shaping a Better Energy Future — Mandante
TECHINT Engineering & Construction — Mandataria
ICEG Engineering — Mandante

| VISTO: IL RESPONSABILE DEL PROCEDIMENTO | RESPONSABILE DELL'INTEGRAZIONE DELLE PRESTAZIONI SPECIALISTICHE | PROGETTISTA SPECIALISTA | IL COORDINATORE DELLA SICUREZZA IN FASE DI PROGETTAZIONE |
|---|---|---|---|
| Ing. Fabrizio CARDONE | Ing. Alessandro RODINO | Ing. Paolo Alberto COLETTI | Dott. Domenico TRIMBOLI |

**OPERE MAGGIORI**
**SVINCOLO DI MELARA**
**VIADOTTO RAMPA 'N'**
**DISPOSITIVO DI APPOGGIO - COSTRUTTIVO MAURER "MLRB 2563 kN" (BI-15)**

| CODICE PROGETTO | NOME FILE | REVISIONE | SCALA: |
|---|---|---|---|
| PROGETTO: DPGE0265 — LIV. PROG.: E — N. PROG.: 20 | 0000_V04VI12STRDC11_A | A | VARIE |
| | CODICE ELAB.: V04VI12STRDC11 | | |

| REV. | DESCRIZIONE | DATA | REDATTO | VERIFICATO | APPROVATO |
|---|---|---|---|---|---|
| C | | | | | |
| B | | | | | |
| A | EMISSIONE | Marzo 2021 | G. Naretto | A. Rodino | D. Morgera |