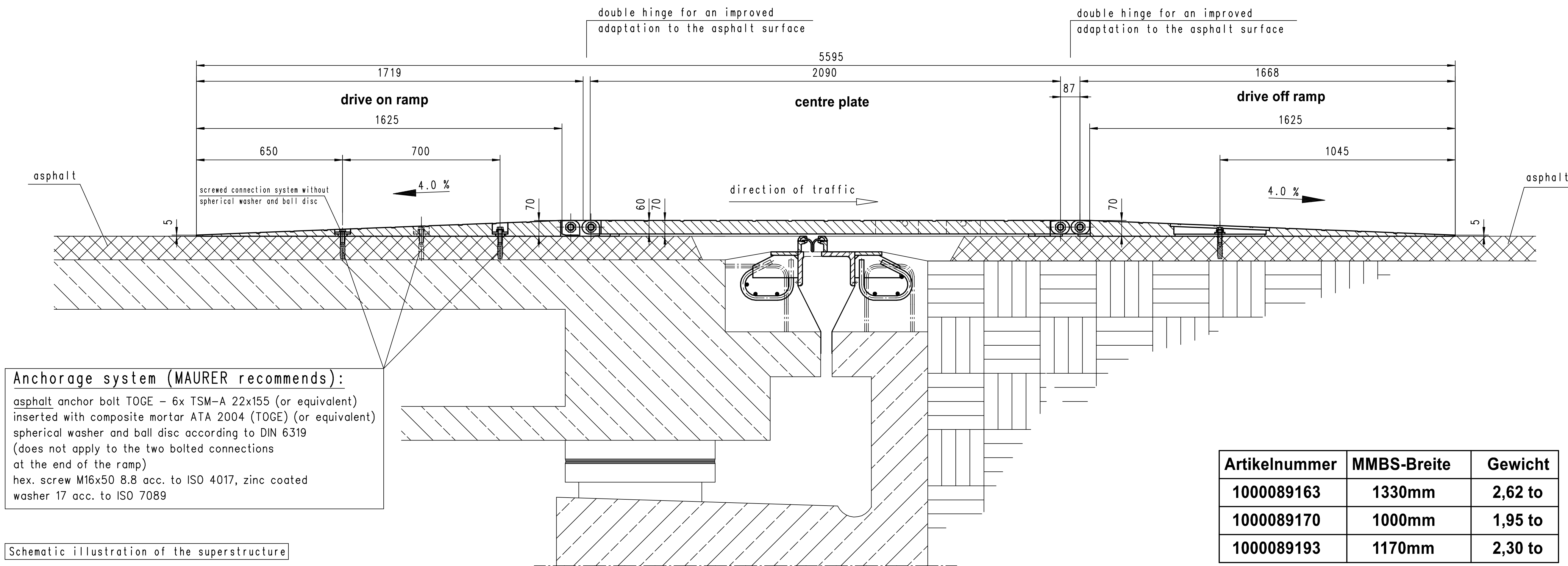


**MAURER MODULAR BRIDGING SYSTEMS - MMBS**  
 Max crossing speed is 80 km/h. The client shall determine and enforce the crossing speed limit based on the max MMBS crossing speed and the conditions at the construction site.  
 $\leq 80\text{km/h}$  (49 mph)

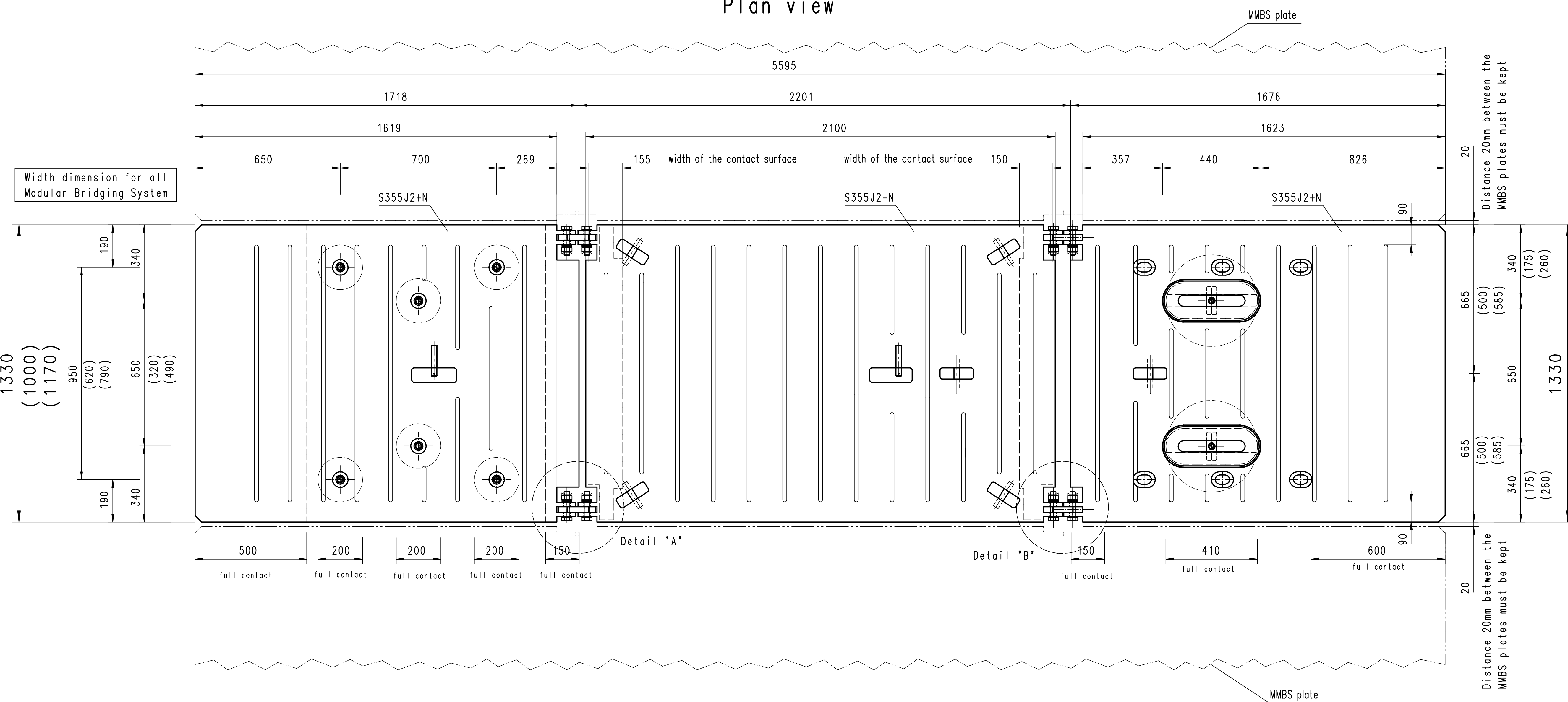


**Anchorage system (MAURER recommends):**  
 asphalt anchor bolt TOGE - 6x TSM-A 22x155 (or equivalent) inserted with composite mortar ATA 2004 (TOGE) (or equivalent) spherical washer and ball disc according to DIN 6319 (does not apply to the two bolted connections at the end of the ramp)  
 hex. screw M16x50 8.8 acc. to ISO 4017, zinc coated washer 17 acc. to ISO 7089

Schematic illustration of the superstructure

Artikelnummer	MMBS-Breite	Gewicht
1000089163	1330mm	2,62 to
1000089170	1000mm	1,95 to
1000089193	1170mm	2,30 to

Plan view

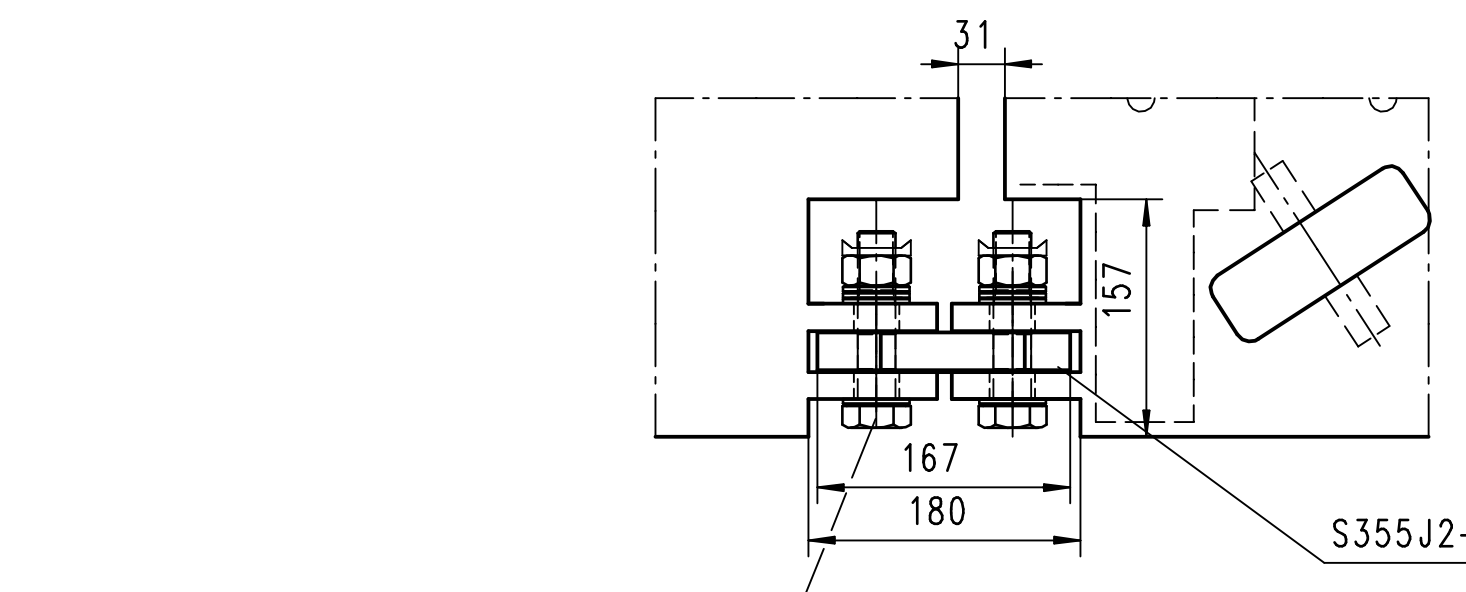
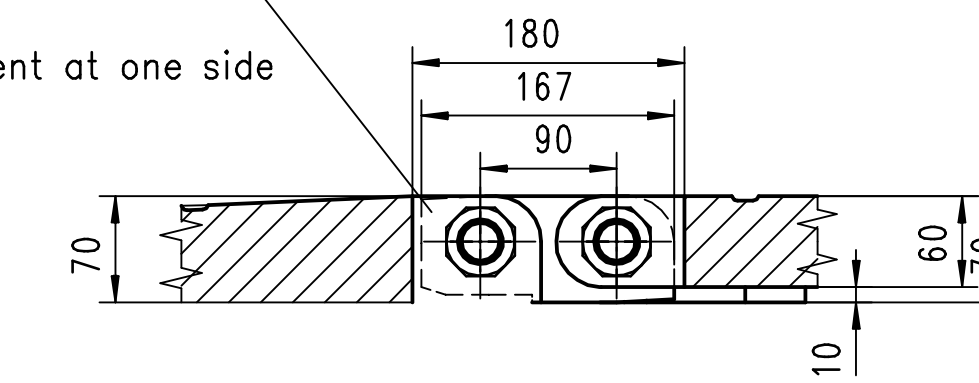


Width dimension for all Modular Bridging System

**DETAIL 'A'**

Scale 1:5

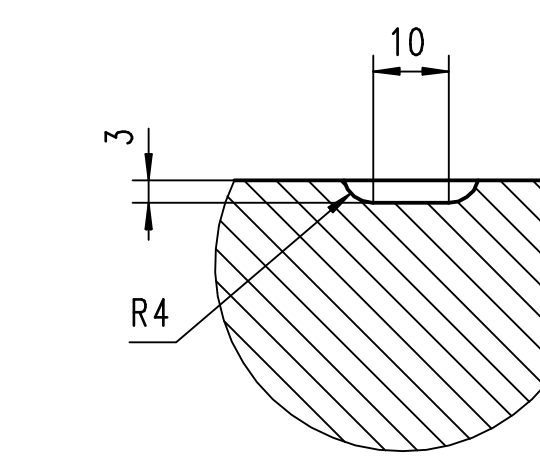
centrally positioned hinge connection with mechanic stop for limitation of movement at one side



high-tension fitted bolt connection  
 high-tension fitting bolt M24x115 10.9 acc. to DIN EN 14399-8, hot-dip galvanised  
 high-tension hex. nut M24, strength class 10 acc. to DIN EN 14399-4, hot-dip galvanised  
 high-tension washers 25 acc. to DIN EN 14399-6

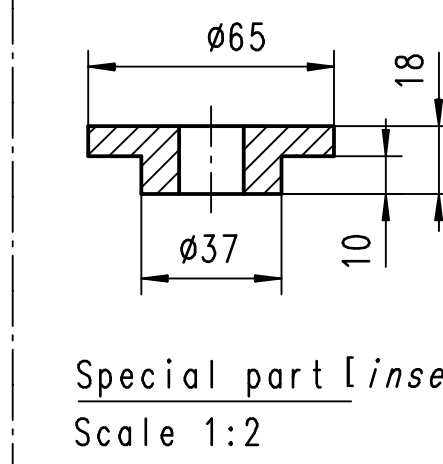
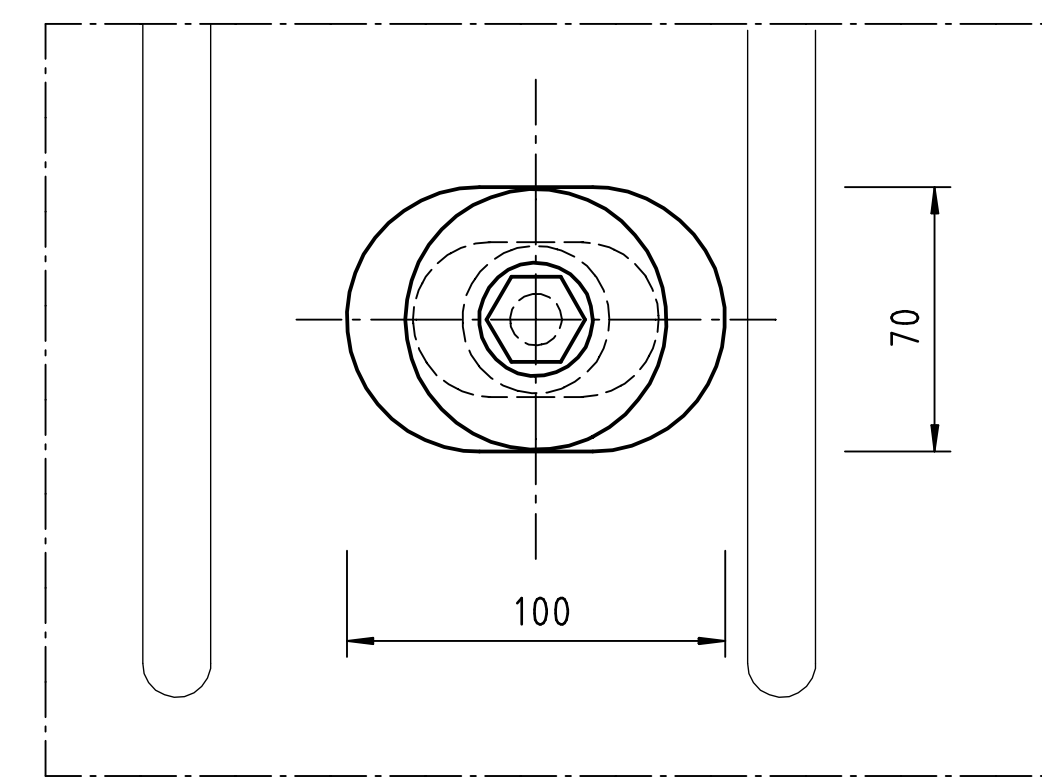
**DETAIL 'GROOVE'**

Scale 1:1



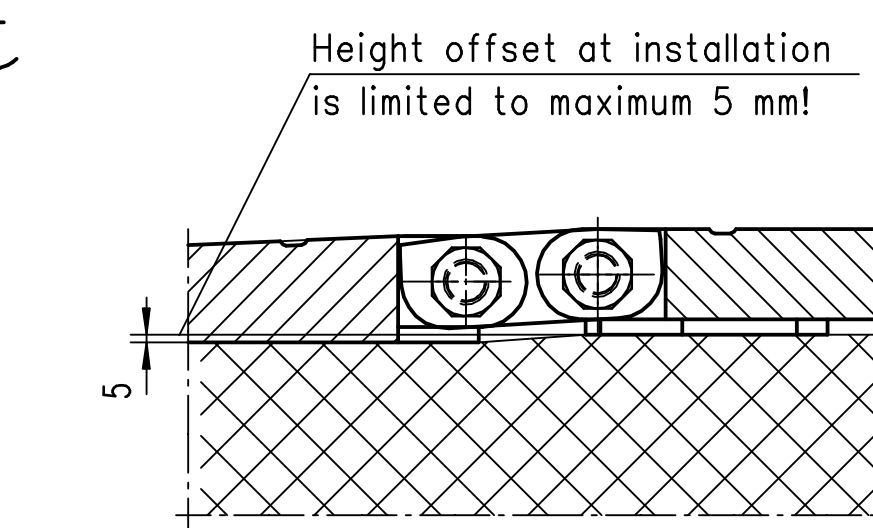
**Plan view**

Scale 1:2



**REQUIREMENTS FOR THE INSTALLATION**

applies equally to both the drive-on and drive-off side  
 Scale 1:5

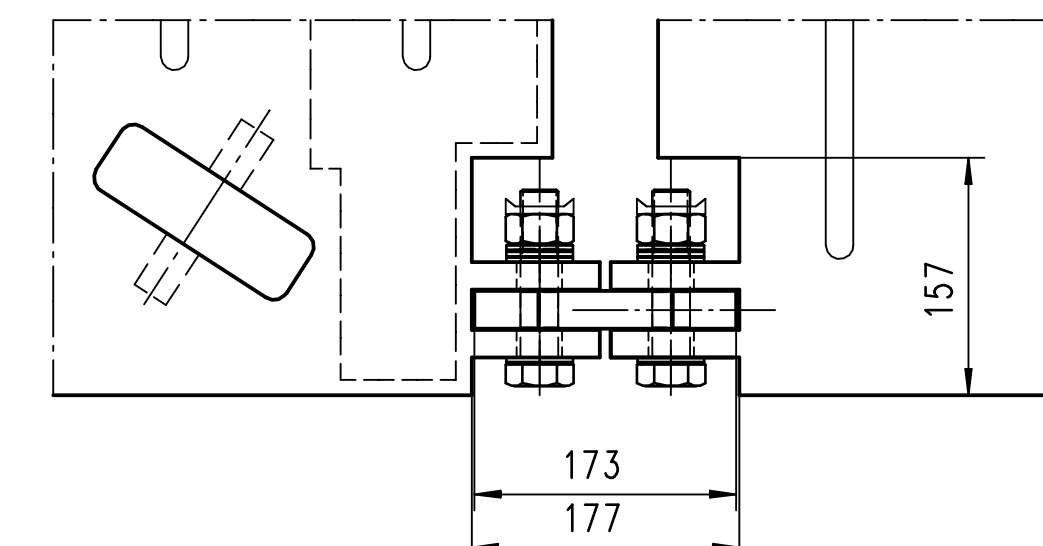
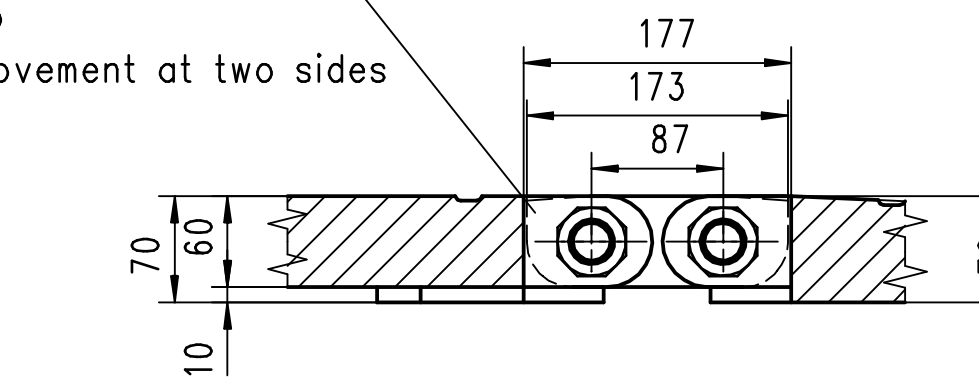


Tightening torque of the metric screw (approach ramp): 50 Nm  
 Tightening torque of the metric screw on the hold-down clamp: 5.5 Nm  
 Tightening torque of the TSM-A screw:  $\leq 300$  Nm

**DETAIL 'B'**

Scale 1:5

centrally positioned hinge connection with mechanic stop for limitation of movement at two sides

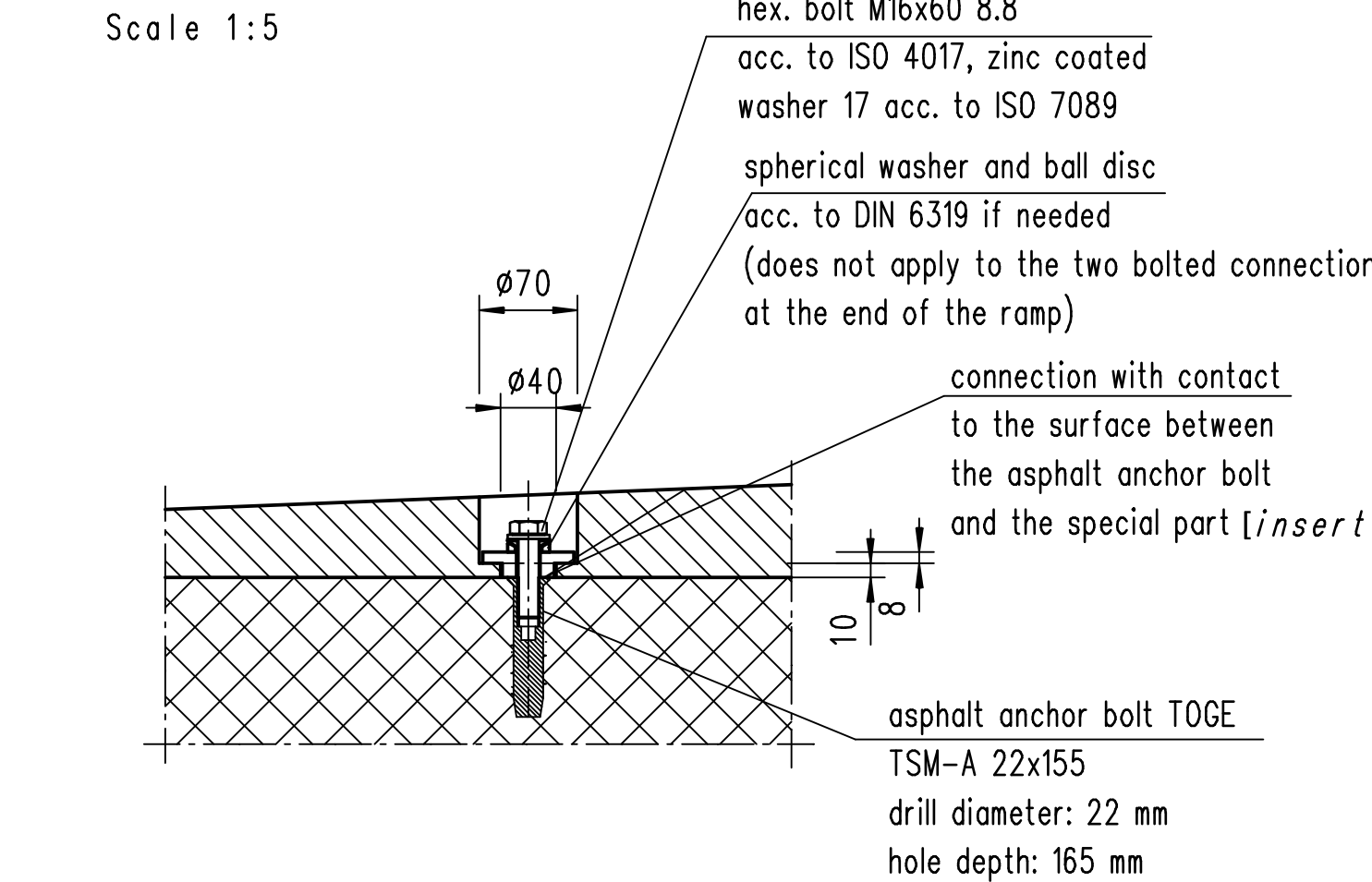


high-tension fitted bolt connection / high-tension fitting bolt M24x115 10.9 acc. to DIN EN 14399-8, hot-dip galvanised  
 high-tension hex. nut M24, strength class 10 acc. to DIN EN 14399-4, hot-dip galvanised  
 high-tension washers 25 acc. to DIN EN 14399-6

**Detail bolted connection**

schematic view

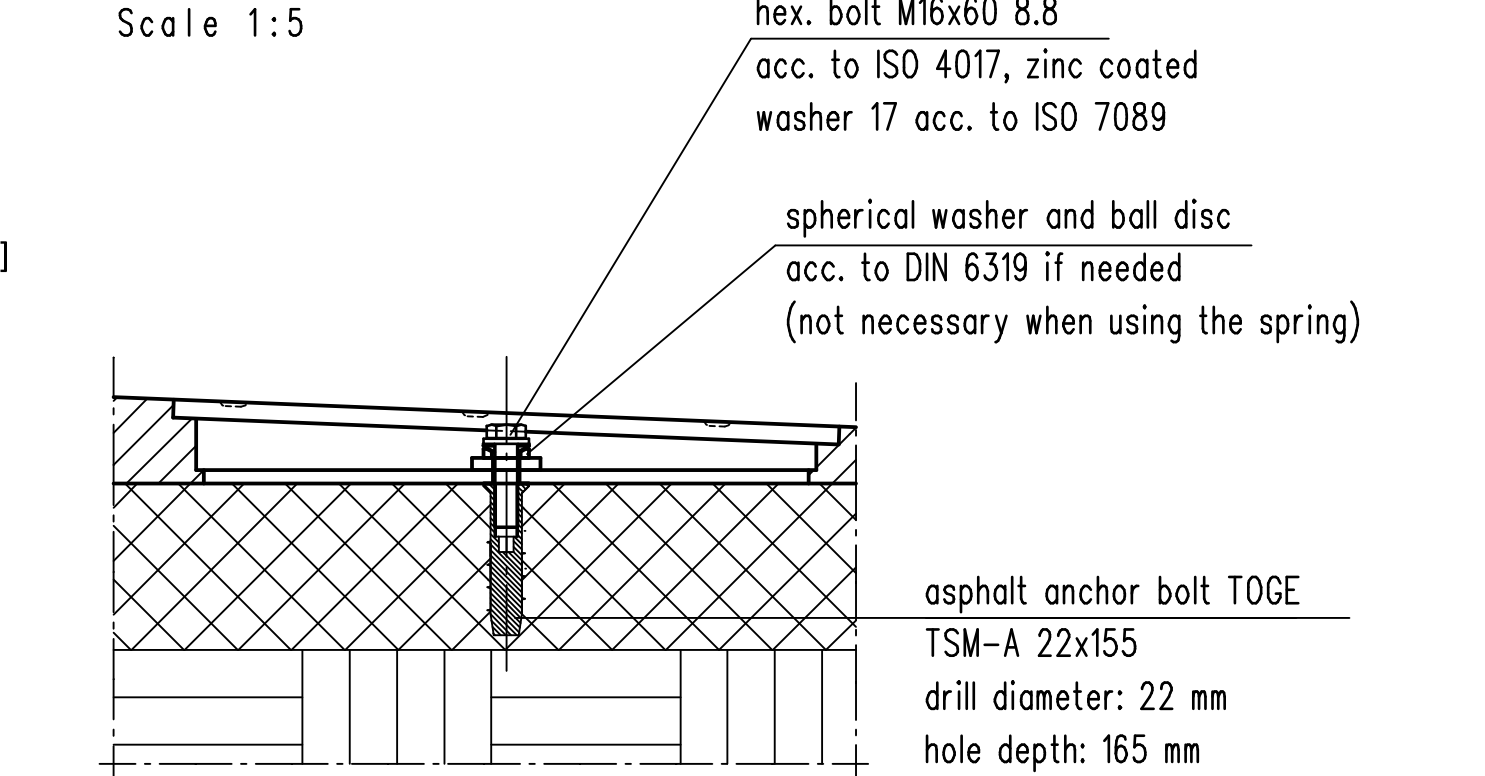
Scale 1:5



**Detail bolted connection**

schematic view

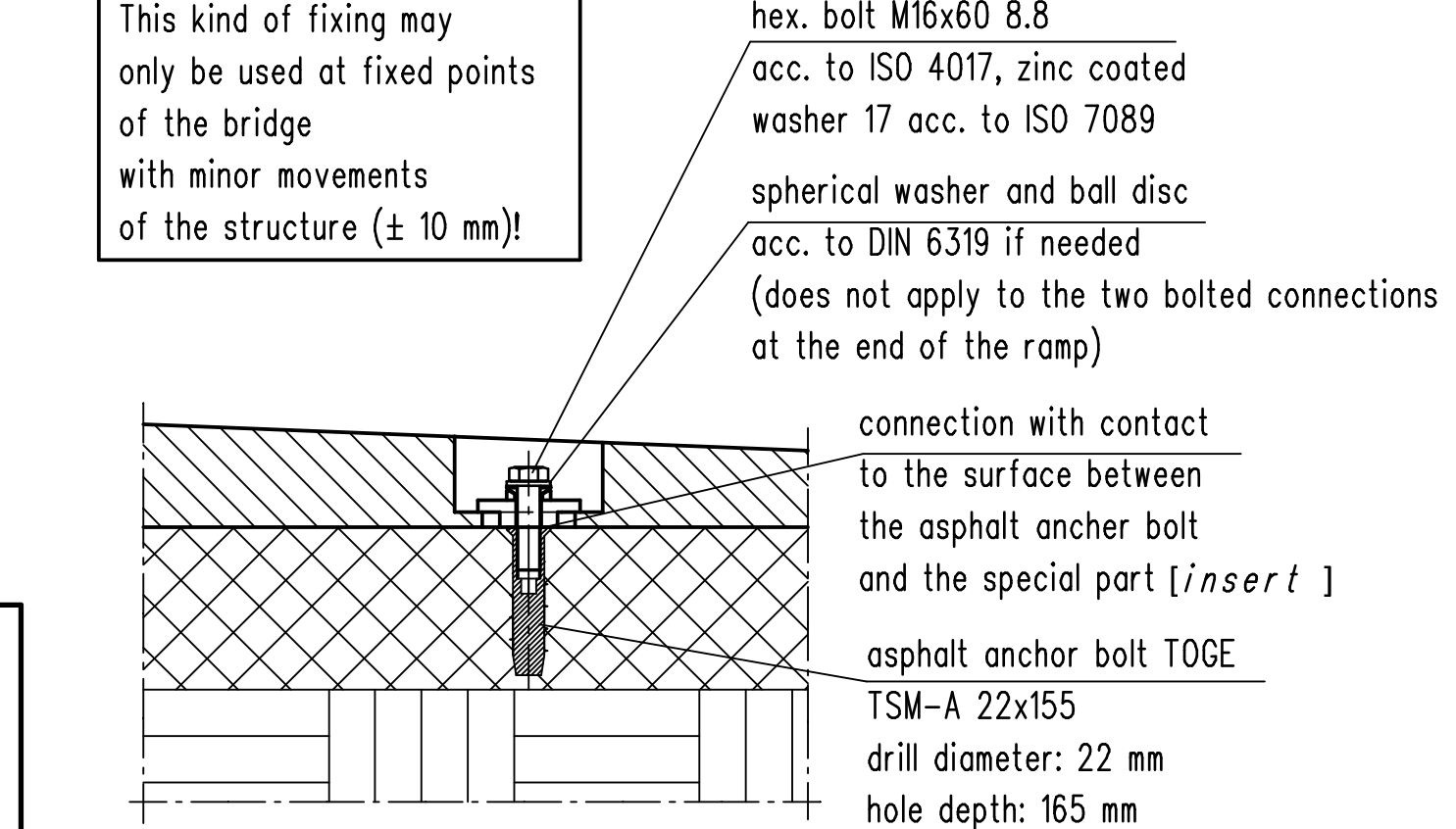
Scale 1:5



**Alternative bolted connection**

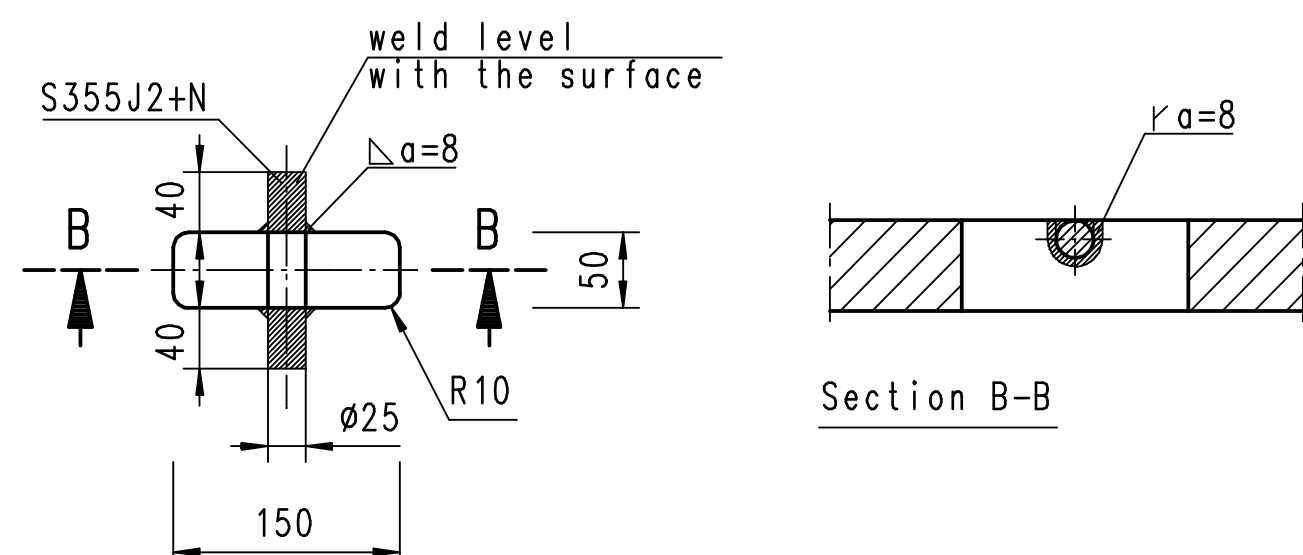
schematic view

Scale 1:5



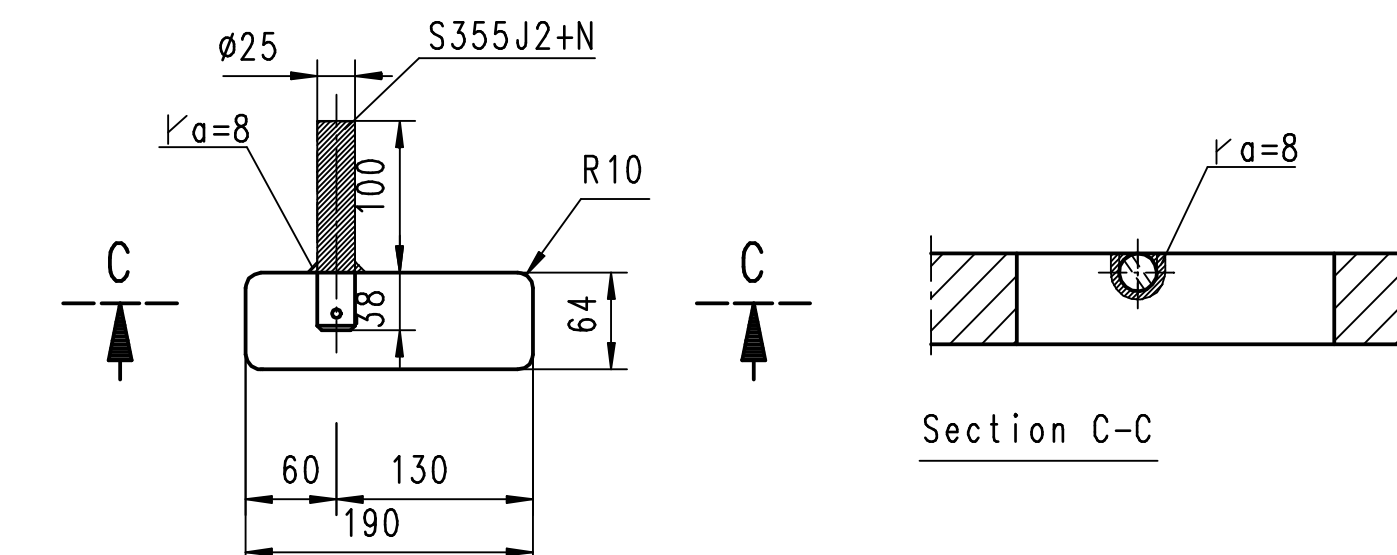
**DETAIL - PULL POINTS**

Scale 1:5



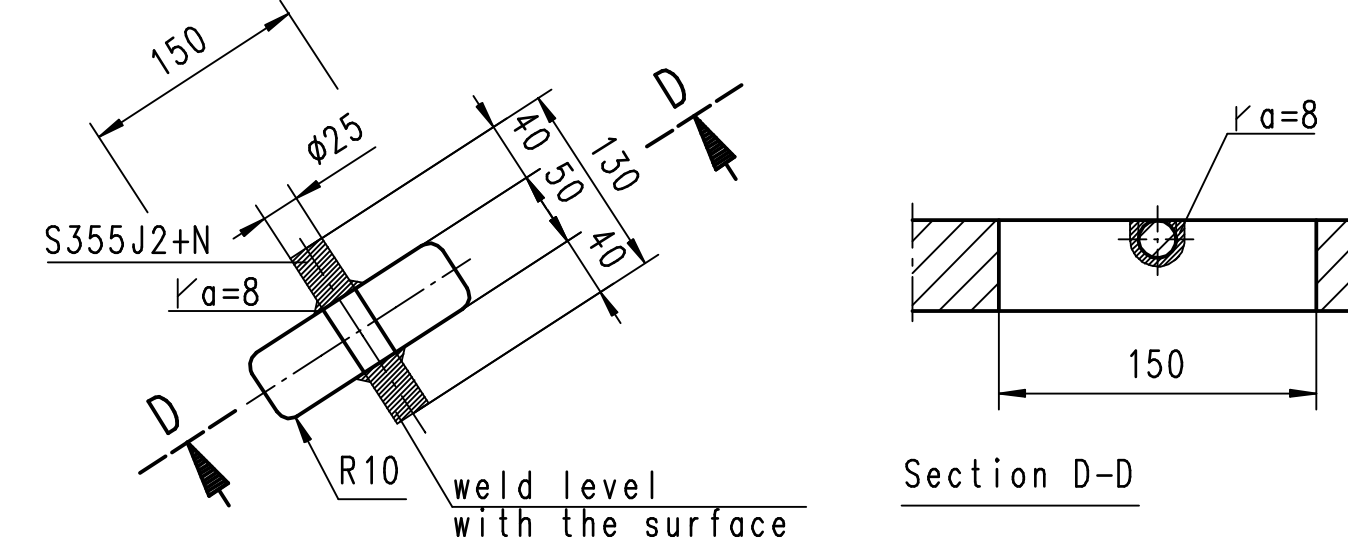
**DETAIL - SOCKET 'TURNBUCKLE' STAY**

Scale 1:5 exemplary illustration for the bridging element



**DETAIL - LIFTING SPOTS**

Scale 1:5



**NOTES:**

Please note Installation Manual and Maintenance Manual

The MMBS System shall be used according to installation and maintenance manual (doc PA 1.500 and AA 1.557).

The MMBS system shall be used for up to six months (= 6x4 weeks installation and maintenance interval) at a time at one location. The intervals are prescribed and must be observed according to the installation and maintenance instructions (doc. PA 1.500 and doc. AA 1.557).

If all maintenance intervals are respected, the system be able used for another 6 months.

The system meets the requirements of the Canadian Highway Bridge Design Code (CHBDC) S6-14, 2014; Supplement to CHBDC S6-14, 2016

**GENERAL TOLERANCES**

Welds: ISO 5817 B (please note work instruction AA 1.510)  
 Weld construction: DIN EN ISO 13920 CC  
 Other: DIN ISO 2768 m (please note work instruction AA 1.512)

Revision	Comment added	12.02.21	Trapp
1	MAURER SE Munich	12.02.21	Trapp
2	MAURER SE Munich	01/20	Trapp
3	MAURER SE Munich	01/20	Eberl

Structure:	MMBS for Moti BC	Scale:	1:10 / 5	Project number:	P 104 676 001
Component:	MAURER MODULAR BRIDGING SYSTEM - asphalt anchor	Article No.:	1000089163	Sheet No.:	0001b / 0001b
Coating:	DIN EN ISO 12944-S: Sand blasting grade: SA 2 1/2	Primer layer:	not galvanized	Thickness:	80-100 µm
		Intermediate coat:	epoxid iron oxide	Thickness:	150 µm
		Finishing coat:	PUR epoxid iron oxide	Thickness:	80 µm