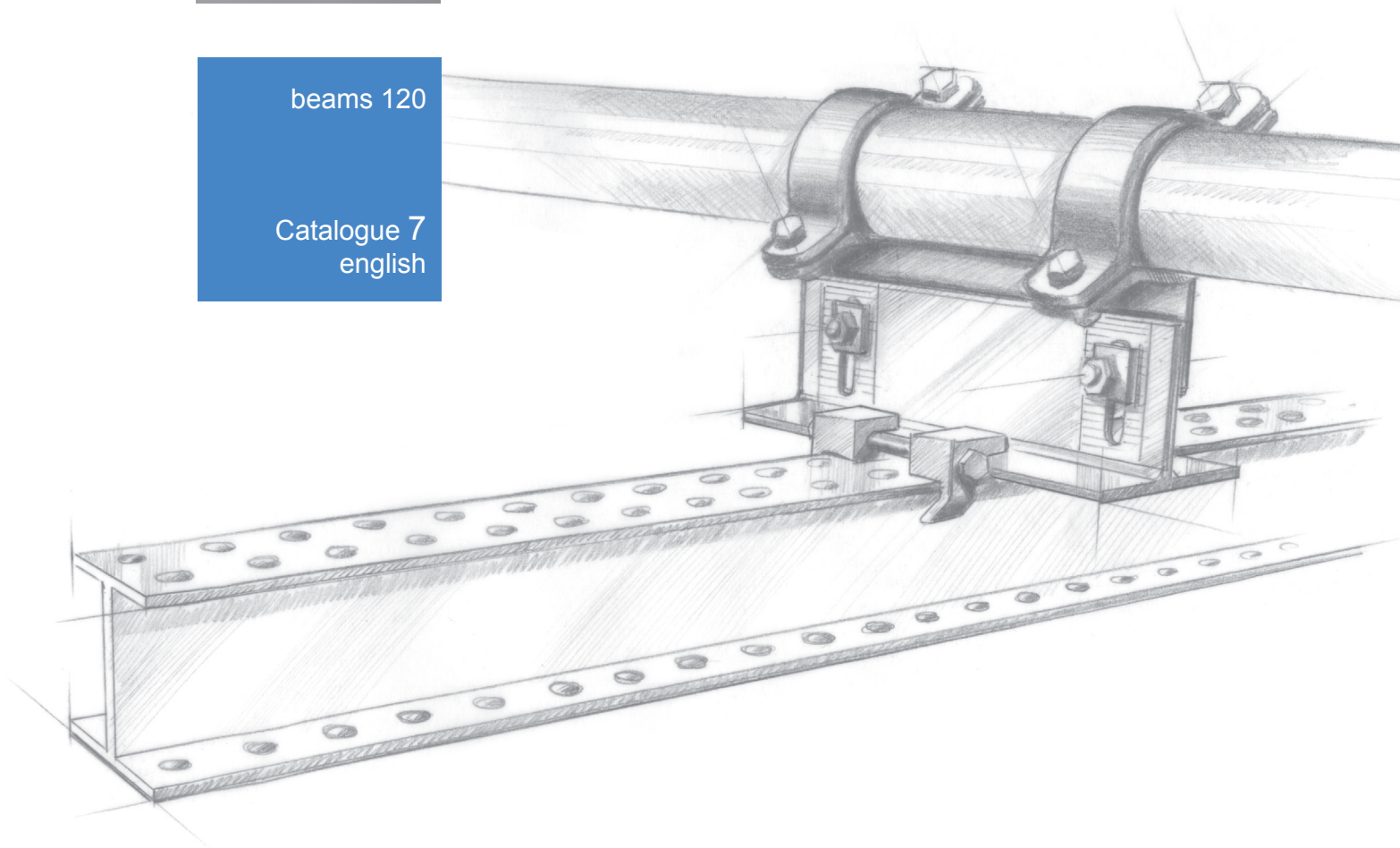


beams 120

Catalogue 7
english

Bernecker

modular 4D





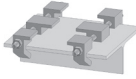
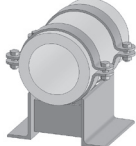
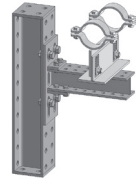
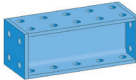
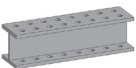
Overview	catalogue no.
	Pipe clamps, ancillary equipment 1
	Sliding supports 2
	Clamp systems 3
	Roller bearings 4
	Pre-insulated pipe supports 5
	ModularSystems / ModularSupport 6
	ModularSteel 120 7
	ModularSteel 80 8

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Overview of types	6
Assembly instructions	7
Product philosophy	8
Order sheet	9
Cantilever Type U61	10
Cantilever with 45° - stay Type U62	11
T-Support Type U64	12, 13
Scaffold Type U68	14, 15
Scaffold Type U67	16, 17
Scaffold Type U69	18, 19
Scaffold Type U70	20, 21
Bridge Type U66	22 - 24
Bridge Type U71	25 - 27

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For any typographical errors, product changes due to technical developments and changing model no liability is accepted. In addition, all components must be used according to purposes.

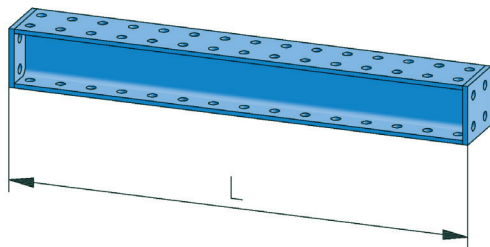
Additional information about our delivery services, as well as technical information, can be taken from catalogue 6.

Please consider our assembling instructions on page 7.

Our general terms and conditions apply.

Catalogue of components

System beam

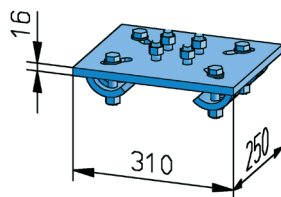


	Article no.	length [L]	weight
(120101)	STB-0300-F	300 mm	7,4 kg
(120102)	STB-0600-F	600 mm	13,1 kg
(120103)	STB-0900-F	900 mm	18,9 kg
(120104)	STB-1200-F	1200 mm	24,6 kg
(120105)	STB-1500-F	1500 mm	30,4 kg
(120106)	STB-1800-F	1800 mm	36,2 kg
(120107)	STB-2100-F	2100 mm	41,9 kg

Adapter plate for clamp connection

Connection section 80 - 200 mm

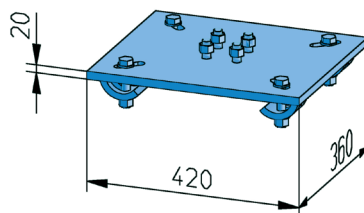
STB-APK-1-50-F 13,5 kg (120201)



Adapter plate for clamp connection

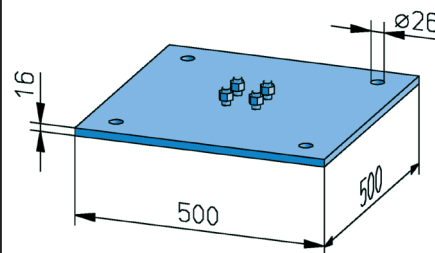
Connection section 190 - 310 mm

STB-APK-2-50-F 27,5 kg (120202)



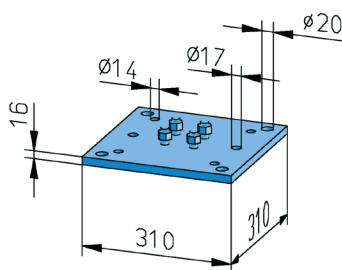
Adapter plate for plug connection

STB-APD-50-F 30,4 kg (120203)



Adapter plate for plug connection* or Halfen Cast-In Channels 2 x M16

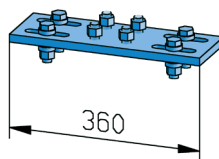
STB-APD-B-50-F 12,8 kg (120204)



* lower load bearing capacity of system by 26%

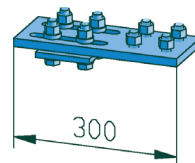
Vertical connection to system beam

STB-APV-1-F 6,1 kg (120401)



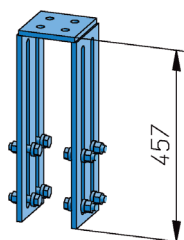
Vertical connection to system beam

STB-APV-3-F 6,0 kg (120402)



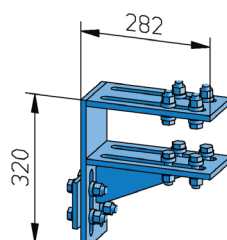
Vertical stay, to bridge level differences up to 300 mm

STB-VS-F 12,5 kg (120501)



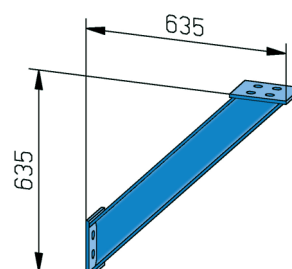
Bridge bearing, to bridge horizontal gaps up to 150 mm

STB-HS-F 12,0 kg (120502)



System beam 45° - stay

STB-S45-0600-F 21,6 kg (120108)





Catalogue of components

Shims for system beam

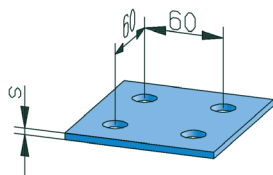
STB-D-001-F s=1 0,1 kg (120503)

STB-D-002-F s=2 0,2 kg (120504)

STB-D-003-F s=3 0,3 kg (120505)

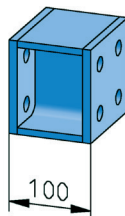
STB-D-005-F s=5 0,5 kg (120506)

STB-D-010-F s=10 1,0 kg (120507)



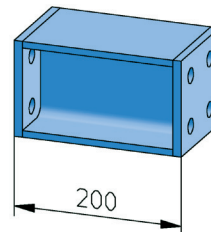
Distance beam

STB-0100-F 3,5 kg (120508)



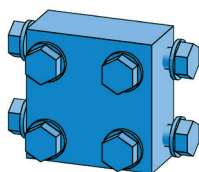
Distance beam

STB-0200-F 5,5 kg (120509)



Cross connector for system beam

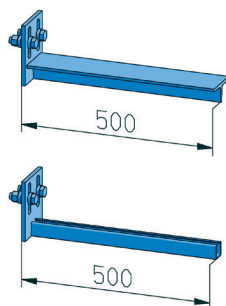
STB-QAS-1-F 4,3 kg (120403)



Bracket for system beam

STB-TB-500-F 6,7 kg (120601)

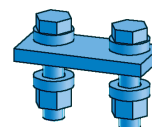
STB-HM-500-F 2,5 kg (120602)



Washer plate

and screw fastening

STB-U-016-F 0,6 kg (120301)



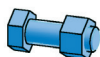
Nuts and bolts loose

STB-S-016x045-F 0,13 kg (120302)

STB-S-016x055-F 0,14 kg (120303)

STB-S-016x070-F 0,16 kg (120304)

STB-S-016x090-F 0,19 kg (120305)

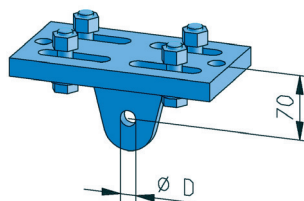


Beam hanger

STB-HP-M12-F D=13 5,6 kg (120701)

STB-HP-M16-F D=17 5,6 kg (120702)

STB-HP-M20-F D=21 5,6 kg (120703)

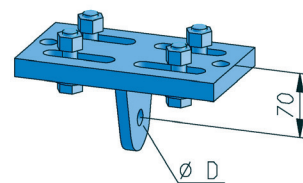


Beam hanger, axial

STB-HP-M12-F D=13 5,6 kg (120711)

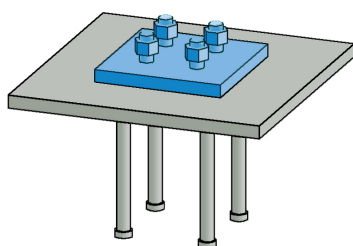
STB-HP-M16-F D=17 5,6 kg (120712)

STB-HP-M20-F D=21 5,6 kg (120713)



Welding plate for anchor plate
for system beam

STB-PA-F 3,2 kg (120205)



Cap

STB-KAPPE-PVC 0,08 kg (120704)

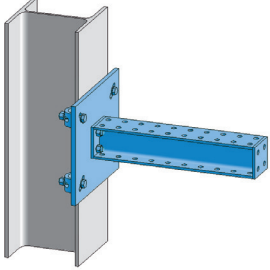
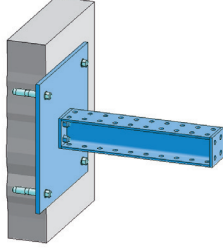
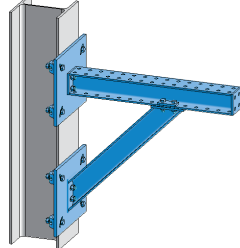
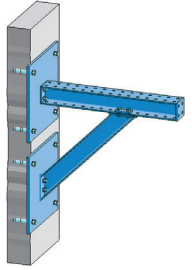
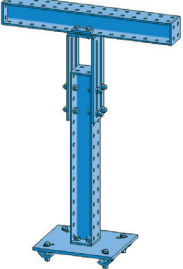
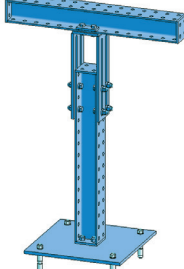
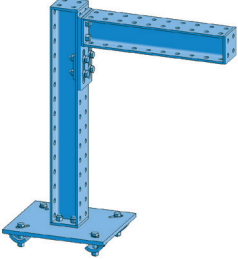
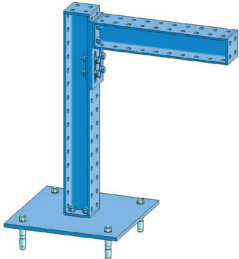
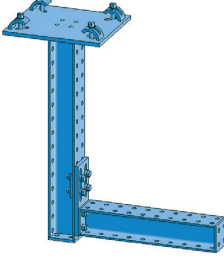
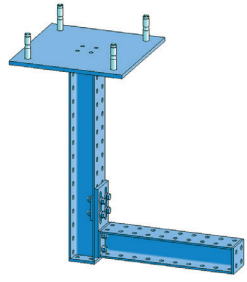
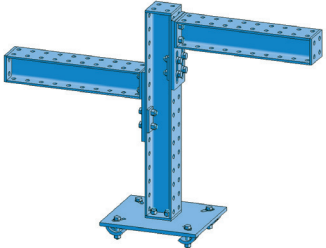
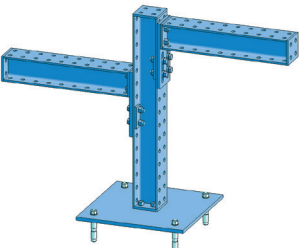
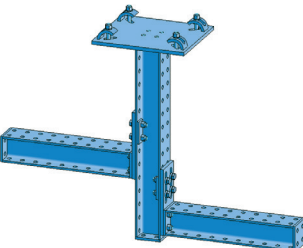
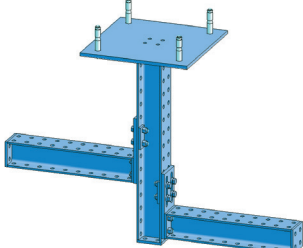
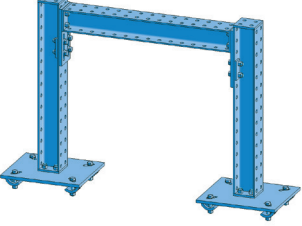
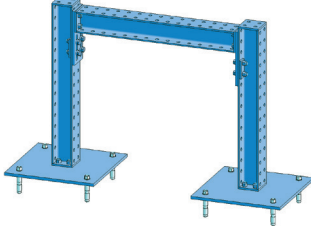
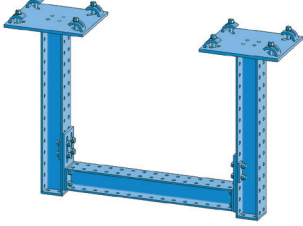
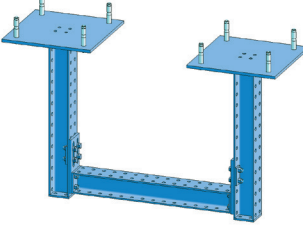


Connecting kit (comprises 4 pieces)

STB-AS-F 3,7 kg (120705)



Overview of types

U61K__ 	U61D__ 	U62K__ 	U62D__ 
U64K__ 	U64D__ 	Other types on request.	
U68K__ 	U68D__ 	U67K__ 	U67D__ 
U69K__ 	U69D__ 	U70K__ 	U70D__ 
U66K__ 	U66D__ 	U71K__ 	U71D__ 

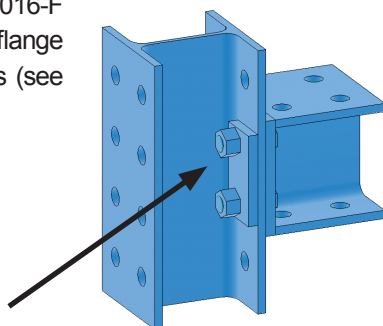
Assembly instructions

BERNECKER ModularSteel is extremely versatile and easy to assemble thanks to its relatively small number of system components. There are a number of important rules that must be followed however:

The system components are completely hot-dip galvanized and all necessary holes are predrilled at our factory. Drilling or welding on the components affects their loadbearing capacity and should be avoided.

ModularSteel 120:

Washer plates* STB-U-016-F must be fitted on the flange side in all 90° connections (see sketch).



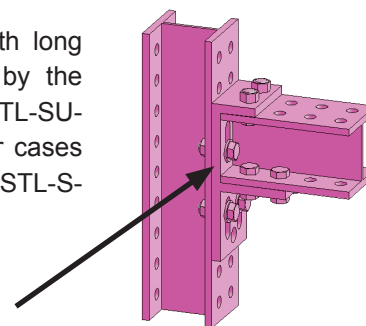
Assembly in general

The screw fastenings* must be used as shown in the sketch and tightened with the prescribed torque (Tab.1).

Tab. 1	ModularSteel 120	ModularSteel 80
Torque	120 Nm	80 Nm
* Screw fastenings always tightened with prescribed tool		

ModularSteel 80:

Screw connections with long holes must be fitted by the screw fastening* STL-SU-012x035-F. In all other cases the screw fastening* STL-S-012x030-F is used.

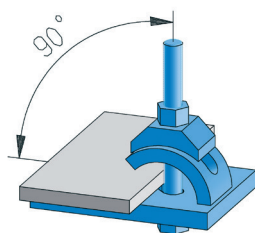


Adapter plate assembly

Position the system beams and screw them with the provided screw fastening* in the adapter plate.

Adapter plate for clamp connection

Slacken the connection kit STL-AS-F / STB-AS-F supplied, align to desired beam and clamp tight.



Caution: The bolt* must be straight and clamps be parallel to each other.

Adapter plate for plug connection

Please refer to table 2 for the types of chosen plugs which our stress calculations are based upon. Other marketable products can be used if their loadbearing capacity is proved and if they apply to the clearance hole. The plugs must be set according to the instructions and building control approvals of the plug manufacturer.

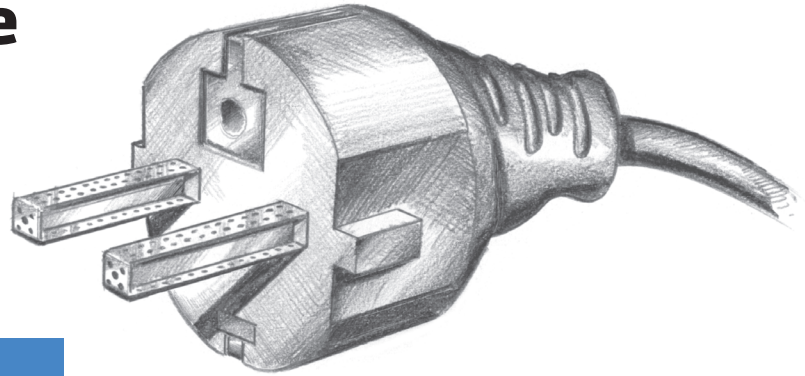
Tab. 2	ModularSteel 120	ModularSteel 80
Adapter plate	STB-APD-50-F	STL-PD-x-F
	STB-APD-B-50-F	
Plug	Liebig plug B M16-25/55/15	Liebig anchor AB M12-20/80/15
	Fischer FAZ 12/30	

Note on the static loadings:

The loadings shown in this document have been calculated based on a static model using certain assumptions and parameters. Despite taking every precaution and applying the accepted rules of engineering practice and the applicable standards, we can only guarantee the loadings for the static cases illustrated in this catalogue. Under no circumstances can we give any guarantee or warranty in the case of deviations from models, constraints and static assumptions.



Stay efficient. Why consume more than necessary?



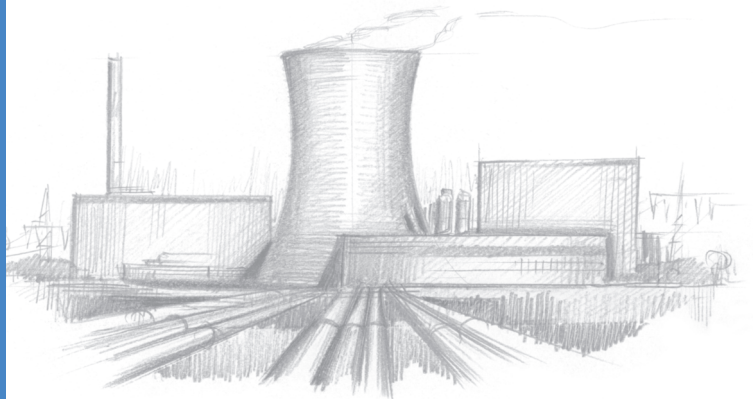
**few system
components,
re-usable**



**high flexibility,
no welding –
only screwing**



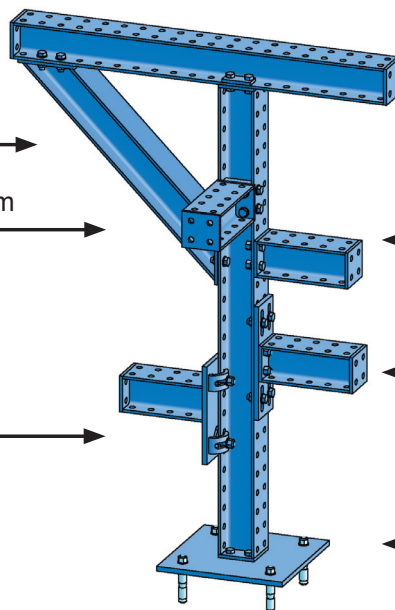
**profitability through
cost-effectiveness
and time saving**



45°-stay for system beam
from 900 mm length on

Cross connector for system beam

continuously adjustable with
adapter plate APK-1 or APK-2



direct screwing of the system beam
in the modular dimensions

continuously adjustable with
adapter plate APV-1 or APV-3

fixed anchor on the ground with
adapter plate APD for plugging

**Bernecker****modular 4D****beam and support solution**

Catalogue 7 | 06/18

Inquiry / Order sheet**Fax +49 2332 7003-44**

Matchcode	Article no.		weight / piece	order quantity
120101	STB-0300-F		7,4 kg	
120102	STB-0600-F		13,1 kg	
120103	STB-0900-F		18,9 kg	
120104	STB-1200-F		24,6 kg	
120105	STB-1500-F		30,4 kg	
120106	STB-1800-F		36,2 kg	
120107	STB-2100-F		41,9 kg	
120108	STB-S45-0600-F		21,6 kg	
120201	STB-APK-1-50-F		13,5 kg	
120202	STB-APK-2-50-F		27,5 kg	
120203	STB-APD-50-F		30,4 kg	
120204	STB-APD-B-50-F		12,8 kg	
120205	STB-PA-F		3,2 kg	
120301	STB-U-016-F		0,8 kg	
120302	STB-S-016x045-F		0,1 kg	
120303	STB-S-016x055-F		0,1 kg	
120304	STB-S-016x070-F		0,2 kg	
120305	STB-S-016x090-F		0,2 kg	
120401	STB-APV-1-F		6,1 kg	
120402	STB-APV-3-F		6,0 kg	
120403	STB-QAS-1-F		4,3 kg	
120501	STB-VS-F		12,5 kg	
120502	STB-HS-F		12,0 kg	
120503	STB-D-001-F		0,1 kg	
120504	STB-D-002-F		0,2 kg	
120505	STB-D-003-F		0,3 kg	
120506	STB-D-005-F		0,5 kg	
120507	STB-D-010-F		1,0 kg	
120508	STB-0100-F		3,5 kg	
120509	STB-0200-F		5,5 kg	
120601	STB-TB-500-F		6,7 kg	
120602	STB-HM-500-F		2,5 kg	
120701	STB-HP-M12-F		5,6 kg	
120702	STB-HP-M16-F		5,6 kg	
120703	STB-HP-M20-F		5,6 kg	
120711	STB-HPA-M12-F		5,6 kg	
120712	STB-HPA-M16-F		5,6 kg	
120713	STB-HPA-M20-F		5,6 kg	
120704	STB-Kappe-PVC		0,1 kg	
120705	STB-AS-F		3,7 kg	

Client no.:

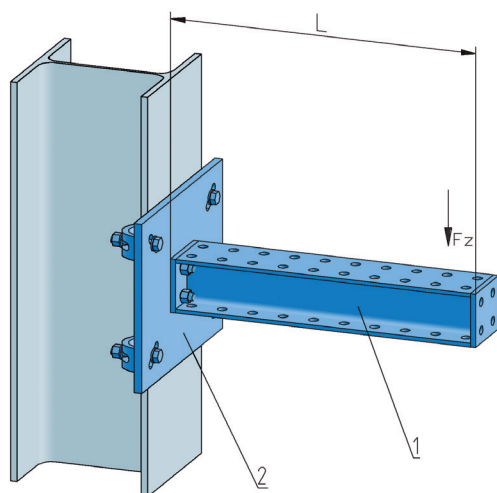
Name:

Projekt:

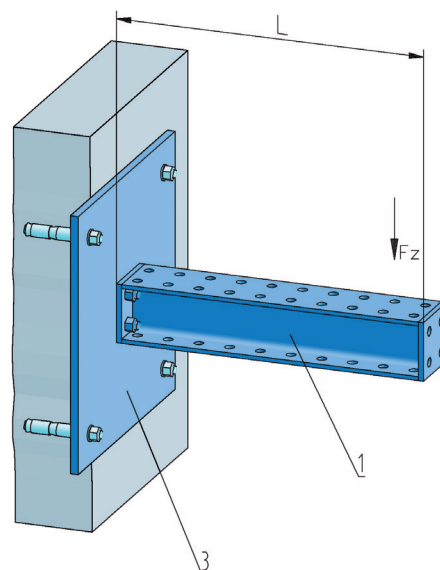
Date:

Company stamp / Signature:

U61K_ _



U61D_ _



Cantilever U61K_A (Connection section 80-200)

	L	A	B	C	D	E	F	G
		300	600	900	1200	1500	1800	2100
	Fz [kN]	11,4	8,4	5,3	3,9	3,0	2,5	2,1
	kg	20,4	26,1	31,9	37,6	43,4	49,2	54,9

Cantilever U61K_B (Connection section 190-310)

	L	A	B	C	D	E	F	G
		300	600	900	1200	1500	1800	2100
	Fz [kN]	11,4	8,4	5,3	3,9	3,0	2,5	2,1
	kg	37,2	42,9	48,7	54,4	60,2	66,0	71,7

Cantilever U61D_ (Plugplate)

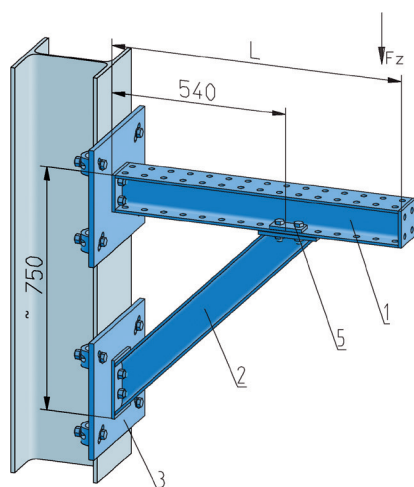
	L	A	B	C	D	E	F	G
		300	600	900	1200	1500	1800	2100
	Fz [kN]	14,3	6,9	4,4	3,2	2,5	2,1	1,7
	kg	37,8	43,5	49,3	55,0	60,8	66,6	72,3

- Pos.1:** STB-0300-F up to STB-2100-F
Pos.2: A = STB-APK-1-50-F (Connection section 80-200) or
 B = STB-APK-2-50-F (Connection section 190-310)
Pos.3: STB-APD-50-F

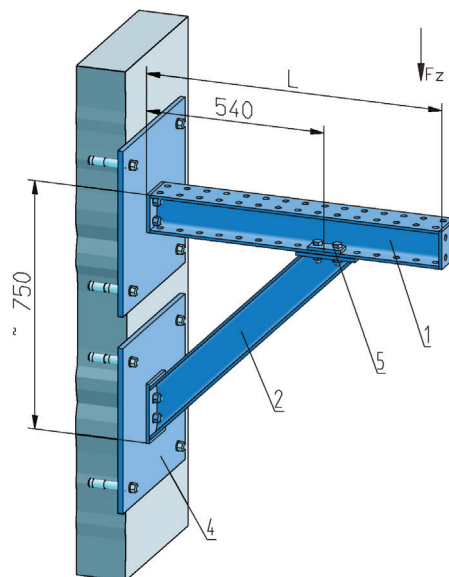
Example: U61KBA = Cantilever, clamp connection, L=600 mm, STB-APK-1-50-F, Fz=8,4 kN



U62K_ _



U62D_ _



Cantilever with 45° - stay U62K_A (Connection section 80-200)

	L			C	D	E		
				900	1200	1500		
	Fz [kN]			5,8	4,3	3,5		
	kg			67,7	73,4	79,2		

Cantilever with 45° - stay U62K_B (Connection section 190-310)

	L			C	D	E		
				900	1200	1500		
	Fz [kN]			5,8	4,3	3,5		
	kg			101,3	107,0	112,8		

Cantilever with 45° - stay U62D_ (Plugplate)

	L			C	D	E		
				900	1200	1500		
	Fz [kN]			5,8	4,3	3,5		
	kg			102,5	108,2	114,0		

Pos.1: STB-0900-F up to STB-1500-F

Pos.2: STB-S45-0600-F

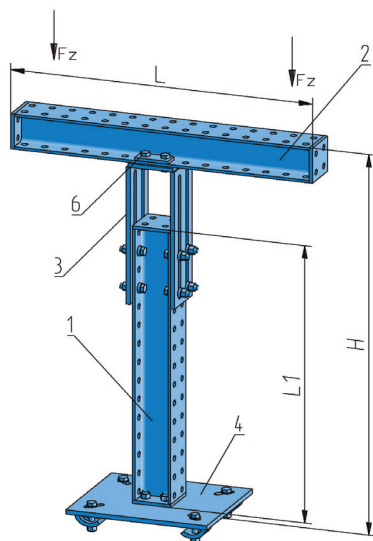
Pos.3: A = STB-APK-1-50-F (Connection section 80-200) (2x) or
B = STB-APK-2-50-F (Connection section 190-310) (2x)

Pos.4: STB-APD-50-F (2x)

Pos.5: STB-U-016-F (2x)

Example: U62DE = Cantilever with 45°- stay, plug connection, L=1500 mm, STB-APD-50-F, Fz=4,4 kN

U64K_ _ _



T-Support U64K_ _A (Connection section 80-200)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	591-746	746-1046	1046-1346	1346-1646	1646-1946	1946-2246	2246-2546
_B L=600	Fz[kN]	6,8	6,8	5,8	4,2	3,3	2,8	2,4
	kg	47,2	52,9	58,7	64,4	70,2	76,0	81,7
_C L=900	Fz[kN]	4,5	4,5	4,5	4,2	3,3	2,8	2,4
	kg	53,0	58,7	64,5	70,2	76,0	81,8	87,5
_D L=1200	Fz[kN]	3,3	3,3	3,3	3,3	3,3	2,8	2,4
	kg	58,7	64,4	70,2	75,9	81,7	87,5	93,2

T-Support U64K_ _B (Connection section 190-310)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	591-746	746-1046	1046-1346	1346-1646	1646-1946	1946-2246	2246-2546
_B L=600	Fz[kN]	6,8	6,8	5,8	4,2	3,3	2,8	2,4
	kg	64,0	69,7	75,5	81,2	87,0	92,8	98,5
_C L=900	Fz[kN]	4,5	4,5	4,5	4,2	3,3	2,8	2,4
	kg	69,8	75,5	81,3	87,0	92,8	98,6	104,3
_D L=1200	Fz[kN]	3,3	3,3	3,3	3,3	3,3	2,8	2,4
	kg	75,5	81,2	87,0	92,7	98,5	104,3	110,0

Pos.1: STB-0300-F up to STB-2100-F

Pos.2: STB-0600-F up to STB-1200-F

Pos.3: STB-VS-F

Pos.4: A = STB-APK-1-50-F (Connection section 80-200) or

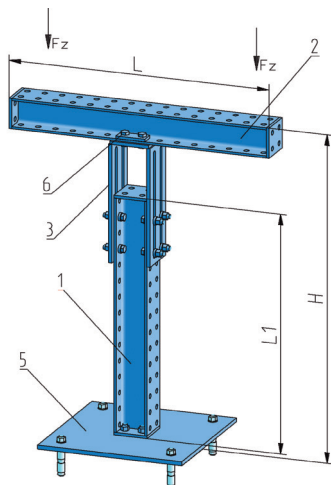
B = STB-APK-2-50-F (Connection section 190-310)

Pos.6: STB-U-016-F (2x)

Example: U64KCBB = T-Support, clamp connection, L1=900 mm, L=600 mm, STB-APK-2-50-F, Fz=5,8 kN



U64D_ _



T-Support U64D_ _ (Plugplate)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	591-746	746-1046	1046-1346	1346-1646	1646-1946	1946-2246	2246-2546
_B L=600	Fz[kN]	16,5	9,4	5,6	4,0	3,1	2,5	2,1
	kg	64,6	70,3	76,1	81,8	87,6	93,4	99,1
_C L=900	Fz[kN]	11,0	7,9	5,6	4,0	3,1	2,5	2,1
	kg	70,4	76,1	81,9	87,6	93,4	99,2	104,9
_D L=1200	Fz[kN]	8,2	6,8	5,1	4,0	3,1	2,5	2,1
	kg	76,1	81,8	87,6	93,3	99,1	104,9	110,6

Pos.1: STB-0300-F up to STB-2100-F

Pos.2: STB-0600-F up to STB-1200-F

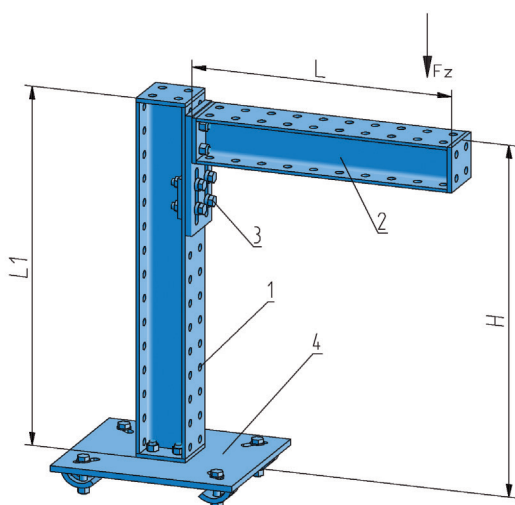
Pos.3: STB-VS-F

Pos.5: STB-APD-50-F

Pos.6: STB-U-016-F (2x)

Example: U64DCB = T-Support, plug connection, L1=900 mm, L=600 mm, STB-APD-50-F, Fz=5,6 kN

U68K_ _ _



Scaffold U68K_ _A (Connection section 80-200)

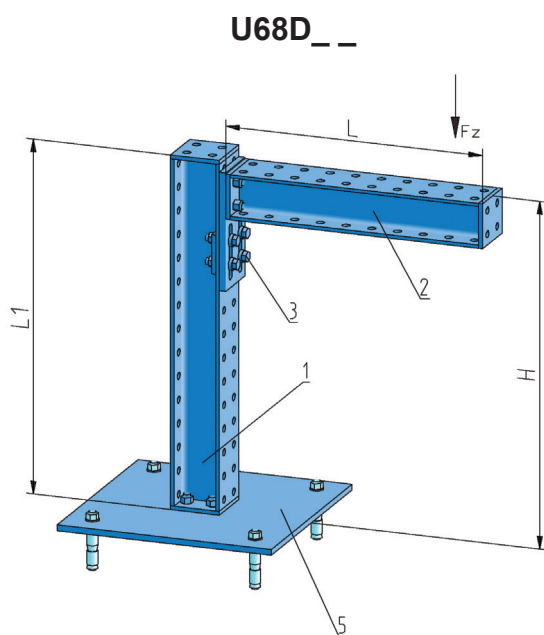
	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_A L=300	Fz[kN]	9,6	9,6	8,3	6,6	5,5	4,7	4,1
	kg	33,9	39,6	45,4	51,1	56,9	62,7	68,4
_B L=600	Fz[kN]	5,5	5,5	5,5	4,9	4,3	3,8	3,4
	kg	39,6	45,3	51,1	56,8	62,6	68,4	74,1
_C L=900	Fz[kN]	3,8	3,8	3,8	3,8	3,5	3,1	2,8
	kg	45,4	51,1	56,9	62,6	68,4	74,2	79,9
_D L=1200	Fz[kN]	o	o	o	2,9	2,9	2,7	2,5
	kg	51,1	56,8	62,6	68,3	74,1	79,9	85,6

Scaffold U68K_ _B (Connection section 190-310)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_A L=300	Fz[kN]	9,6	9,6	8,3	6,6	5,5	4,7	4,1
	kg	50,7	56,4	62,2	67,9	73,7	79,5	85,2
_B L=600	Fz[kN]	5,5	5,5	5,5	4,9	4,3	3,8	3,4
	kg	56,4	62,1	67,9	73,6	79,4	85,2	90,9
_C L=900	Fz[kN]	3,8	3,8	3,8	3,8	3,5	3,1	2,8
	kg	62,2	67,9	73,7	79,4	85,2	91,0	96,7
_D L=1200	Fz[kN]	o	o	o	2,9	2,9	2,7	2,5
	kg	67,9	73,6	79,4	85,1	90,9	96,7	102,4

- Pos.1:** STB-0300-F up to STB-2100-F
Pos.2: STB-0300-F up to STB-1200-F
Pos.3: STB-APV-3-F
Pos.4: A = STB-APK-1-50-F (Connection section 80-200) or
 B = STB-APK-2-50-F (Connection section 190-310)

Example: U68KCAB = Scaffold, clamp connection, L1=900 mm, L=300 mm, STB-APK-2-50-F, Fz=8,3 kN



Scaffold U68D__ (Plugplate)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_A L=300	Fz[kN]	16,9	10,6	7,7	6,0	4,9	4,2	3,6
	kg	51,3	57,0	62,8	68,5	74,3	80,1	85,8
_B L=600	Fz[kN]	8,3	6,4	5,2	4,3	3,7	3,3	2,9
	kg	57,0	62,7	68,5	74,2	80,0	85,8	91,5
_C L=900	Fz[kN]	5,4	4,5	3,9	3,4	3,0	2,7	2,5
	kg	62,8	68,5	74,3	80,0	85,8	91,6	97,3
_D L=1200	Fz[kN]	0	0	0	2,8	2,5	2,3	2,1
	kg	68,5	74,2	80,0	85,7	91,5	97,3	103,0

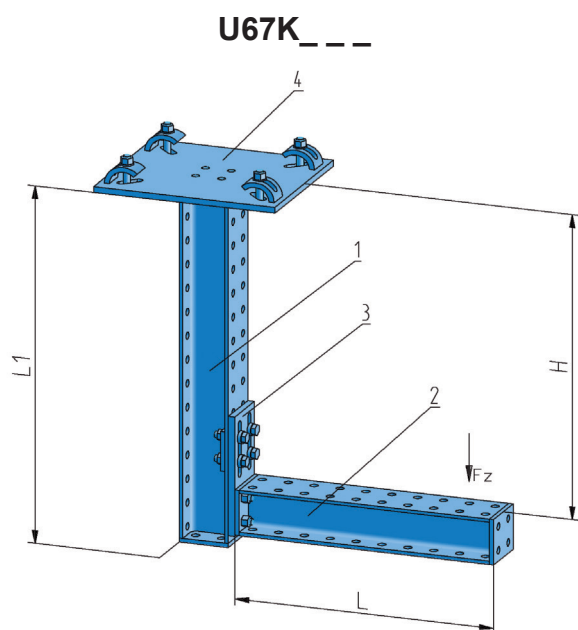
Pos.1: STB-0300-F up to STB-2100-F

Pos.2: STB-0300-F up to STB-1200-F

Pos.3: STB-APV-3-F

Pos.5: STB-APD-50-F

Example: U68DCA = Scaffold, plug connection, L1=900 mm, L=300 mm, STB-APD-50-F, Fz=7,7 kN



Scaffold U67K_ _A (Connection section 80-200)

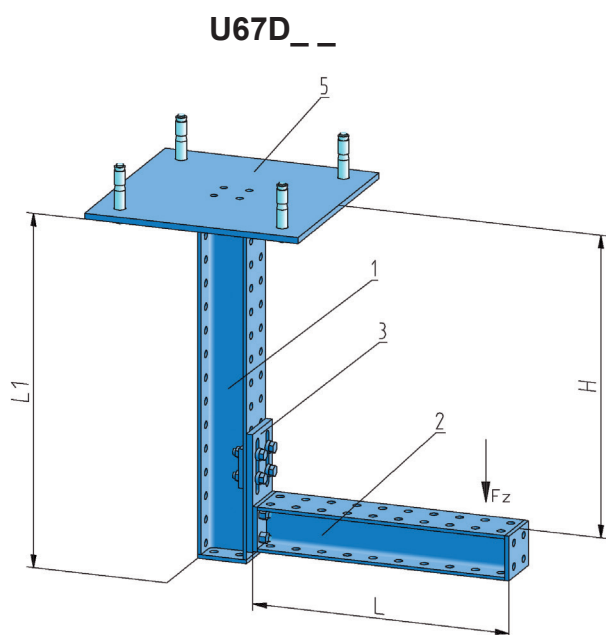
	L1	A_	B_	C_	D_	E_	F_	G_
	H	300	600	900	1200	1500	1800	2100
		20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_A L=300	Fz[kN]	9,6	8,7	6,8	5,6	4,8	4,2	3,7
	kg	33,9	39,6	45,4	51,1	56,9	62,7	68,4
_B L=600	Fz[kN]	5,5	5,5	5,0	4,3	3,8	3,4	3,1
	kg	39,6	45,3	51,1	56,8	62,6	68,4	74,1
_C L=900	Fz[kN]	3,8	3,8	3,8	3,5	3,1	2,9	2,6
	kg	45,4	51,1	56,9	62,6	68,4	74,2	79,9
_D L=1200	Fz[kN]	o	o	o	2,9	2,7	2,5	2,3
	kg	51,1	56,8	62,6	68,3	74,1	79,9	85,6

Scaffold U67K_ _B (Connection section 190-310)

	L1	A_	B_	C_	D_	E_	F_	G_
	H	300	600	900	1200	1500	1800	2100
		20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_A L=300	Fz[kN]	9,6	8,7	6,8	5,6	4,8	4,2	3,7
	kg	50,7	56,4	62,2	67,9	73,7	79,5	85,2
_B L=600	Fz[kN]	5,5	5,5	5,0	4,3	3,8	3,4	3,1
	kg	56,4	62,1	67,9	73,6	79,4	85,2	90,9
_C L=900	Fz[kN]	3,8	3,8	3,8	3,5	3,1	2,9	2,6
	kg	62,2	67,9	73,7	79,4	85,2	91,0	96,7
_D L=1200	Fz[kN]	o	o	o	2,9	2,7	2,5	2,3
	kg	67,9	73,6	79,4	85,1	90,9	96,7	102,4

- Pos.1:** STB-0300-F up to STB-2100-F
Pos.2: STB-0300-F up to STB-1200-F
Pos.3: STB-APV-3-F
Pos.4: A = STB-APK-1-50-F (Connection section 80-200) or
 B = STB-APK-2-50-F (Connection section 190-310)

Example: U67KCAB = Scaffold, clamp connection, L1=900 mm, L=300 mm, STB-APK-2-50-F, Fz=6,8kN


Scaffold U67D_ _ (Plugplate)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_A L=300	Fz[kN]	8,9	6,8	5,4	4,6	3,9	3,4	3,1
	kg	51,3	57,0	62,8	68,5	74,3	80,1	85,8
_B L=600	Fz[kN]	5,7	4,8	4,1	3,6	3,2	2,8	2,6
	kg	57,0	62,7	68,5	74,2	80,0	85,8	91,5
_C L=900	Fz[kN]	4,2	3,7	3,2	2,9	2,6	2,4	2,2
	kg	62,8	68,5	74,3	80,0	85,8	91,6	97,3
_D L=1200	Fz[kN]	0	0	0	2,4	2,2	2,1	1,9
	kg	68,5	74,2	80,0	85,7	91,5	97,3	103,0

Pos.1: STB-0300-F up to STB-2100-F

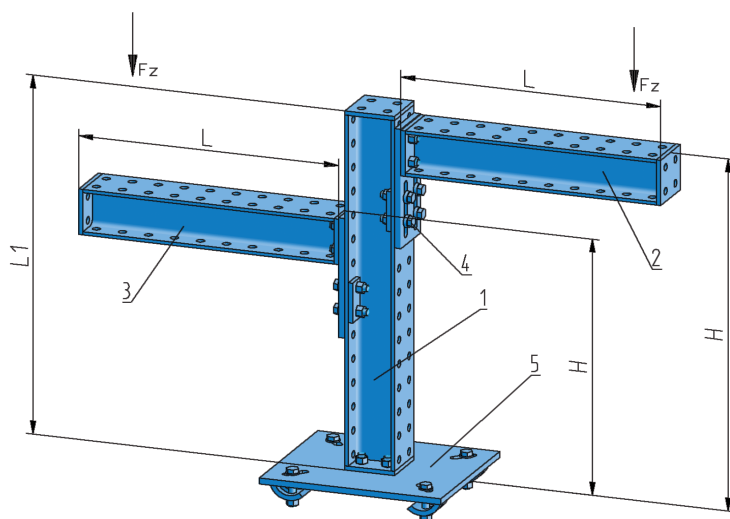
Pos.2: STB-0300-F up to STB-1200-F

Pos.3: STB-APV-3-F

Pos.5: STB-APD-50-F

Example: U67DCA = Scaffold, plug connection, L1=900 mm, L=300 mm, STB-APD-50-F, Fz=5,4 kN

U69K_ _ _ _



Scaffold U69K_ _ _ A (Connection section 80-200)

	L1	A_ _	B_ _	C_ _	D_ _	E_ _	F_ _	G_ _
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_AA L=300	Fz[kN]	9,6	9,6	8,3	6,6	5,5	4,7	4,1
	kg	47,3	53,0	58,8	64,5	70,3	76,1	81,8
_BB L=600	Fz[kN]	5,5	5,5	5,5	4,9	4,3	3,8	3,4
	kg	58,7	64,4	70,2	75,9	81,7	87,5	93,2
_CC L=900	Fz[kN]	3,8	3,8	3,8	3,8	3,5	3,1	2,8
	kg	70,3	76,0	81,8	87,5	93,3	99,1	104,8
_DD L=1200	Fz[kN]	o	o	o	2,9	2,9	2,7	2,5
	kg	81,7	87,4	93,2	98,9	104,7	110,5	116,2

Scaffold U69K_ _ _ B (Connection section 190-310)

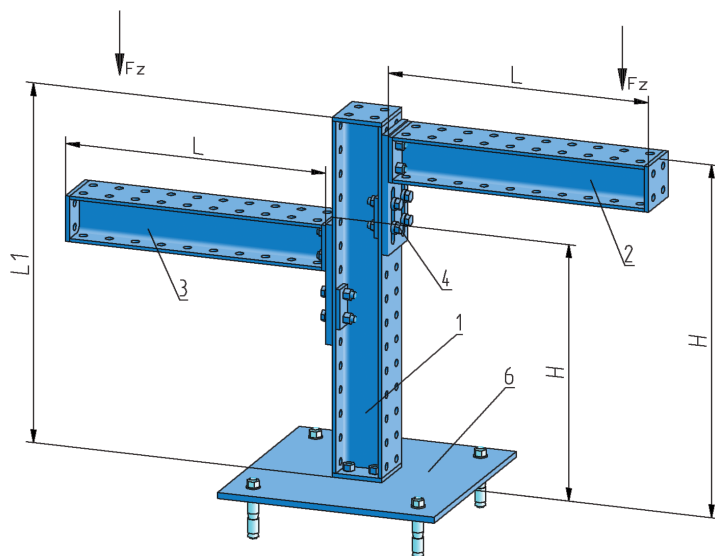
	L1	A_ _	B_ _	C_ _	D_ _	E_ _	F_ _	G_ _
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_AA L=300	Fz[kN]	9,6	9,6	8,3	6,6	5,5	4,7	4,1
	kg	64,1	69,8	75,6	81,3	87,1	92,9	98,6
_BB L=600	Fz[kN]	5,5	5,5	5,5	4,9	4,3	3,8	3,4
	kg	75,5	81,2	87,0	92,7	98,5	104,3	110,0
_CC L=900	Fz[kN]	3,8	3,8	3,8	3,8	3,5	3,1	2,8
	kg	87,1	92,8	98,6	104,3	110,1	115,9	121,6
_DD L=1200	Fz[kN]	o	o	o	2,9	2,9	2,7	2,5
	kg	98,5	104,2	110,0	115,7	121,5	127,3	133,0

- Pos.1:** STB-0300-F up to STB-2100-F
Pos.2 + 3: STB-0300-F up to STB-1200-F
Pos.4: STB-APV-3-F (2x)
Pos.5: A = STB-APK-1-50-F (Connection section 80-200) or
 B = STB-APK-2-50-F (Connection section 190-310)

Example: U69KDAAB = Scaffold, clamp connection, L1=1200 mm, L=300 mm, STB-APK-2-50-F, Fz=6,6 kN



U69D_ _ _



Scaffold U69D_ _ _ (Plugplate)

	L1	A_ _	B_ _	C_ _	D_ _	E_ _	F_ _	G_ _
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_AA L=300	Fz[kN]	16,9	10,6	7,7	6,0	4,9	4,2	3,6
	kg	64,7	70,6	76,2	81,9	87,7	93,5	99,2
_BB L=600	Fz[kN]	8,3	6,4	5,2	4,3	3,7	3,3	2,9
	kg	76,1	81,8	87,6	93,3	99,1	104,9	110,6
_CC L=900	Fz[kN]	5,4	4,5	3,9	3,4	3,0	2,7	2,5
	kg	87,7	93,4	99,2	104,9	110,7	116,5	122,2
_DD L=1200	Fz[kN]	0	0	0	2,8	2,5	2,3	2,1
	kg	99,1	104,8	110,6	116,3	122,1	127,9	133,6

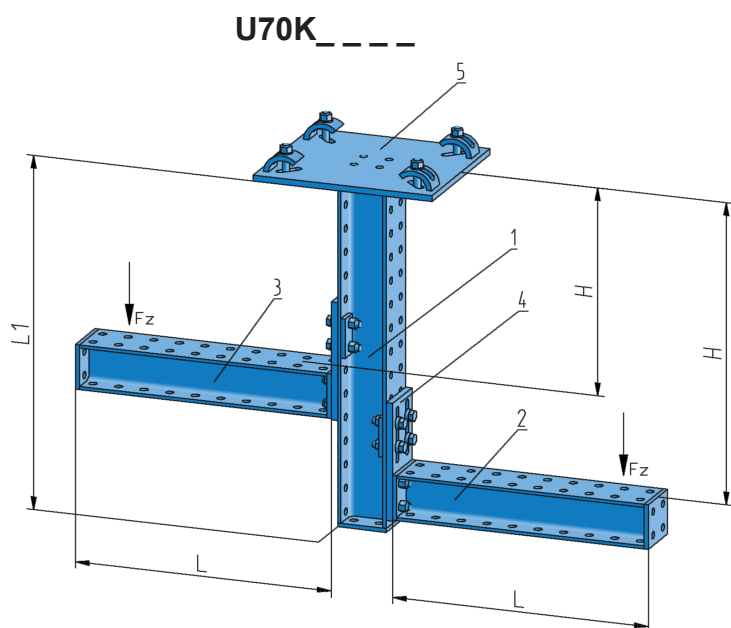
Pos.1: STB-0300-F up to STB-2100-F

Pos.2 + 3: STB-0300-F up to STB-1200-F

Pos.4: STB-APV-3-F (2x)

Pos.6: STB-APD-50-F

Example: U69DDAB = Scaffold, plug connection, L1=1200 mm, L=300 mm, STB-APD-50-F, Fz=6,0 kN



Scaffold U70K_ _ _A (Connection section 80-200)

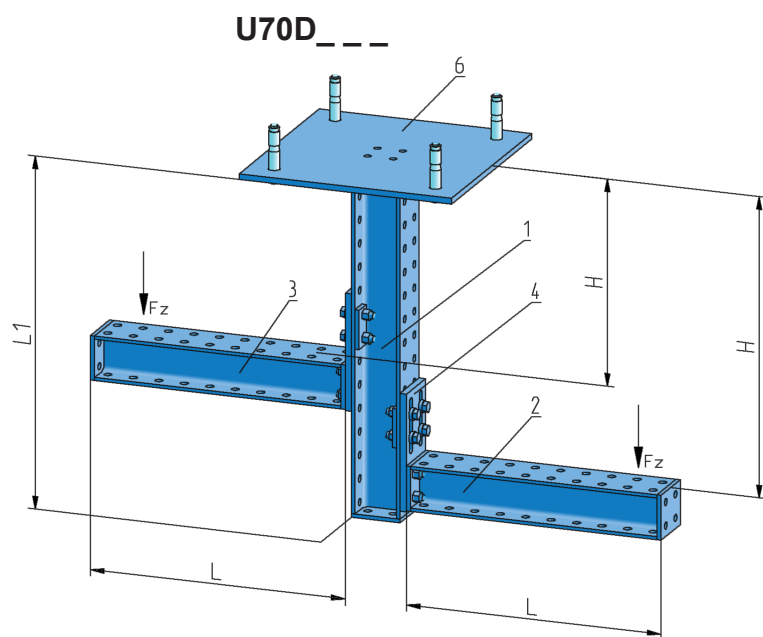
	L1	A_ _	B_ _	C_ _	D_ _	E_ _	F_ _	G_ _
		300	600	900	1200	1500	1800	2100
	H	20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_AA L=300	Fz[kN]	9,6	8,7	6,8	5,6	4,8	4,2	3,7
	kg	47,3	53,0	58,8	64,5	70,3	76,1	81,8
_BB L=600	Fz[kN]	5,5	5,5	5,0	4,3	3,8	3,4	3,1
	kg	58,7	64,4	70,2	75,9	81,7	87,5	93,2
_CC L=900	Fz[kN]	3,8	3,8	3,8	3,5	3,1	2,9	2,6
	kg	70,3	76,0	81,8	87,5	93,3	99,1	104,8
_DD L=1200	Fz[kN]	o	o	o	2,9	2,7	2,5	2,3
	kg	81,7	87,4	93,2	98,9	104,7	110,5	116,2

Scaffold U70K_ _ _B (Connection section 190-310)

	L1	A_ _	B_ _	C_ _	D_ _	E_ _	F_ _	G_ _
		300	600	900	1200	1500	1800	2100
	H	20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_AA L=300	Fz[kN]	9,6	8,7	6,8	5,6	4,8	4,2	3,7
	kg	64,1	69,8	75,6	81,3	87,1	92,9	98,6
_BB L=600	Fz[kN]	5,5	5,5	5,0	4,3	3,8	3,4	3,1
	kg	75,5	81,2	87,0	92,7	98,5	104,3	110,0
_CC L=900	Fz[kN]	3,8	3,8	3,8	3,5	3,1	2,9	2,6
	kg	87,1	92,8	98,6	104,3	110,1	115,9	121,6
_DD L=1200	Fz[kN]	o	o	o	2,9	2,7	2,5	2,3
	kg	98,5	104,2	110,0	115,7	121,5	127,3	133,0

- Pos.1:** STB-0300-F up to STB-2100-F
Pos.2 + 3: STB-0300-F up to STB-1200-F
Pos.4: STB-APV-3-F (2x)
Pos.5: A = STB-APK-1-50-F (Connection section 80-200) or
B = STB-APK-2-50-F (Connection section 190-310)

Example: U70KDAAB = Scaffold, clamp connection, L1=1200 mm, L=300 mm, STB-APK-2-50-F, Fz=5,6 kN



Scaffold U70D_ (Plugplate)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_AA L=300	Fz[kN]	8,9	6,8	5,4	4,6	3,9	3,4	3,1
	kg	64,7	70,6	76,2	81,9	87,7	93,5	99,2
_BB L=600	Fz[kN]	5,7	4,8	4,1	3,6	3,2	2,8	2,6
	kg	76,1	81,8	87,6	93,3	99,1	104,9	110,6
_CC L=900	Fz[kN]	4,2	3,7	3,2	2,9	2,6	2,4	2,2
	kg	87,7	93,4	99,2	104,9	110,7	116,5	122,2
_DD L=1200	Fz[kN]	o	o	o	2,4	2,2	2,1	1,9
	kg	99,1	104,8	110,6	116,3	122,1	127,9	133,6

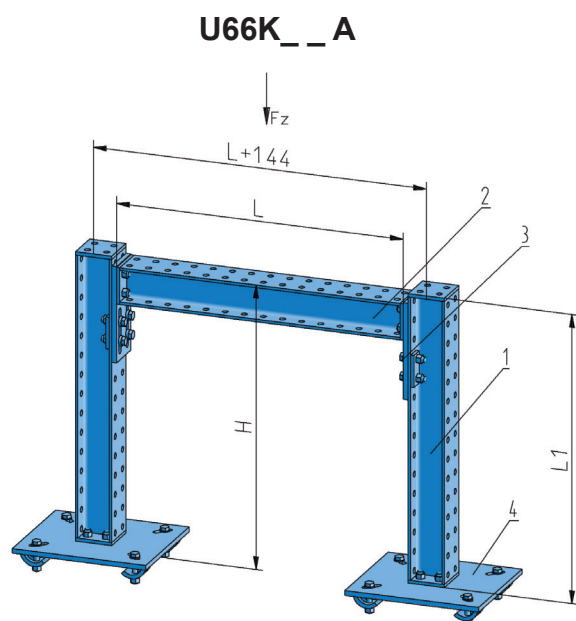
Pos.1: STB-0300-F up to STB-2100-F

Pos.2 + 3: STB-0300-F up to STB-1200-F

Pos.4: STB-APV-3-F (2x)

Pos.6: STB-APD-50-F

Example: U70DDAA = Scaffold, plug connection, L1=1200 mm, L=300 mm, STB-APD-50-F, Fz=4,6 kN

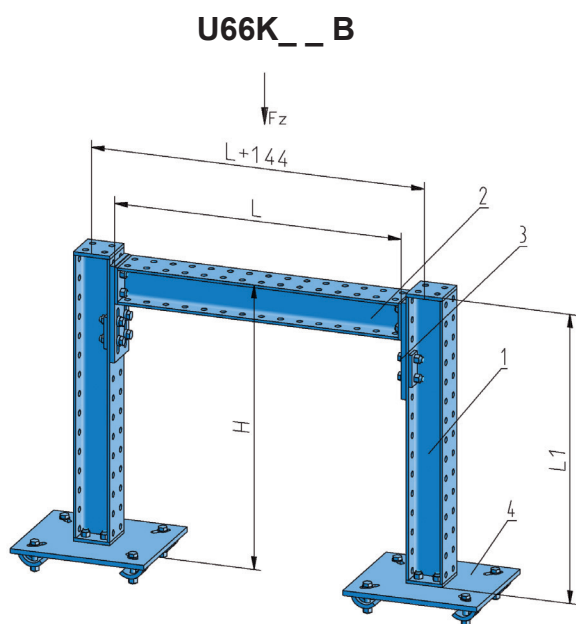


Bridge U66K_ _A (Connection section 80-200)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_B L=600	Fz[kN]	33,0	43,0	33,0	25,0	20,0	17,0	15,0
	kg	65,9	77,3	88,9	100,3	111,9	123,5	134,9
_C L=900	Fz[kN]	24,0	35,0	32,0	25,0	20,0	17,0	15,0
	kg	71,7	83,1	94,7	106,1	117,7	129,3	140,7
_D L=1200	Fz[kN]	18,0	29,0	31,0	24,0	20,0	17,0	15,0
	kg	77,4	88,8	100,4	111,8	123,4	135,0	146,4
_E L=1500	Fz[kN]	15,0	24,0	29,0	23,0	19,0	16,0	14,0
	kg	83,2	94,6	106,2	117,6	129,2	140,8	152,2
_F L=1800	Fz[kN]	12,0	21,0	27,0	22,0	19,0	16,0	14,0
	kg	89,0	100,4	112,0	123,4	135,0	146,6	158,0
_G L=2100	Fz[kN]	11,0	18,0	25,0	21,0	18,0	15,0	13,0
	kg	94,7	106,1	117,7	129,1	140,7	152,3	163,7

- Pos.1:** STB-0300-F up to STB-2100-F (2x)
Pos.2: STB-0600-F up to STB-2100-F
Pos.3: STB-APV-3-F (2x)
Pos.4: STB-APK-1-50-F (Connection section 80-200) (2x)

Example: U66KCEA = Bridge, clamp connection, L1=900 mm, L=1500 mm, STB-APK-1-50-F, Fz=29,0 kN

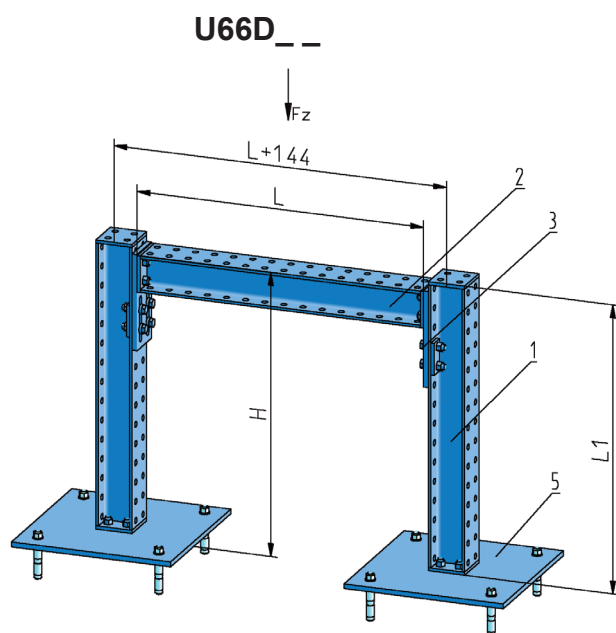


Bridge U66K_ _B (Connection section 190-310)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_B L=600	Fz[kN]	33,0	43,0	33,0	25,0	20,0	17,0	15,0
	kg	99,5	110,9	122,5	133,9	145,5	157,1	168,5
_C L=900	Fz[kN]	24,0	35,0	32,0	25,0	20,0	17,0	15,0
	kg	105,3	116,7	128,3	139,7	151,3	162,9	174,3
_D L=1200	Fz[kN]	18,0	29,0	31,0	24,0	20,0	17,0	15,0
	kg	111,0	122,4	134,0	145,4	157,0	168,6	180,0
_E L=1500	Fz[kN]	15,0	24,0	29,0	23,0	19,0	16,0	14,0
	kg	116,8	128,2	139,8	151,2	162,8	174,4	185,8
_F L=1800	Fz[kN]	12,0	21,0	27,0	22,0	19,0	16,0	14,0
	kg	122,6	134,0	145,6	157,0	168,6	180,2	191,6
_G L=2100	Fz[kN]	11,0	18,0	25,0	21,0	18,0	15,0	13,0
	kg	128,3	139,7	151,3	162,7	174,3	185,9	197,3

- Pos.1:** STB-0300-F up to STB-2100-F (2x)
Pos.2: STB-0600-F up to STB-2100-F
Pos.3: STB-APV-3-F (2x)
Pos.4: STB-APK-2-50-F (Connection section 190-310) (2x)

Example: U66KCEB = Bridge, clamp connection, L1=900 mm, L=1500 mm, STB-APK-2-50-F, Fz=29,0 kN



Bridge U66D_ _ (Plugplate)

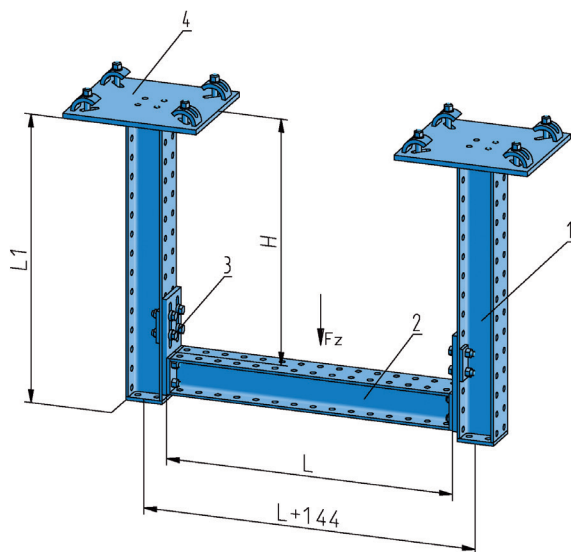
	L1	A_	B_	C_	D_	E_	F_	G_
	H	300	600	900	1200	1500	1800	2100
		134 / 320	- 620	- 920	- 1220	- 1520	- 1820	- 2120
_B L=600	Fz[kN]	60,0	49,0	33,0	25,0	20,0	17,0	14,0
	kg	100,7	112,1	123,7	135,1	146,7	158,3	169,7
_C L=900	Fz[kN]	60,0	45,0	32,0	25,0	20,0	17,0	15,0
	kg	106,5	117,9	129,5	140,9	152,5	164,1	175,5
_D L=1200	Fz[kN]	47,0	42,0	31,0	24,0	20,0	17,0	15,0
	kg	112,2	123,6	135,2	146,6	158,2	169,8	181,2
_E L=1500	Fz[kN]	38,0	35,0	29,0	23,0	19,0	16,0	14,0
	kg	118,0	129,4	141,0	152,4	164,0	175,6	187,0
_F L=1800	Fz[kN]	31,0	31,0	27,0	22,0	18,0	16,0	14,0
	kg	123,8	135,2	146,8	158,2	169,8	181,4	192,8
_G L=2100	Fz[kN]	27,0	27,0	25,0	21,0	18,0	15,0	13,0
	kg	129,5	140,9	152,5	163,9	175,5	187,1	198,5

- Pos.1:** STB-0300-F up to STB-2100-F (2x)
Pos.2: STB-0600-F up to STB-2100-F
Pos.3: STB-APV-3-F (2x)
Pos.5: STB-APD-50-F (2x)

Example: U66DCE = Bridge, plug connection, L1=900 mm, L=1500 mm, STB-APD-50-F, Fz=29,0 kN



U71K_ _A



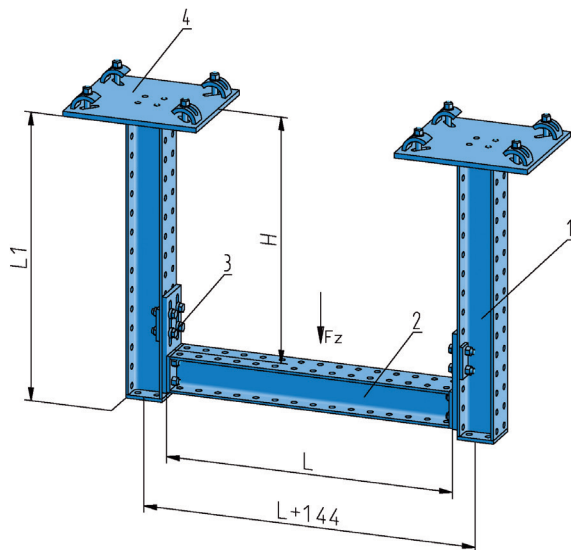
Bridge U71K_ _A (Connection section 80-200)

	L1	A_	B_	C_	D_	E_	F_	G_
		H						
		300	600	900	1200	1500	1800	2100
		20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_B L=600	Fz[kN]	32,0	35,0	27,0	21,0	18,0	15,0	13,0
	kg	65,9	77,3	88,9	100,3	111,9	123,5	134,9
_C L=900	Fz[kN]	23,0	33,0	26,0	21,0	17,0	15,0	13,0
	kg	71,7	83,1	94,7	106,1	117,7	129,3	140,7
_D L=1200	Fz[kN]	18,0	29,0	24,0	20,0	17,0	14,0	12,0
	kg	77,4	88,8	100,4	111,8	123,4	135,0	146,4
_E L=1500	Fz[kN]	15,0	24,0	23,0	19,0	16,0	14,0	12,0
	kg	83,2	94,6	106,2	117,6	129,2	140,8	152,2
_F L=1800	Fz[kN]	12,0	21,0	21,0	18,0	16,0	14,0	12,0
	kg	89,0	100,4	112,0	123,4	135,0	146,6	158,0
_G L=2100	Fz[kN]	10,0	18,0	20,0	17,0	15,0	13,0	11,0
	kg	94,7	106,1	117,7	129,1	140,7	152,3	163,7

- Pos.1:** STB-0300-F up to STB-2100-F (2x)
Pos.2: STB-0600-F up to STB-2100-F
Pos.3: STB-APV-3-F (2x)
Pos.4: STB-APK-1-50-F (Connection section 80-200) (2x)

Example: U71KCEA = Bridge, clamp connection, L1=900 mm, L=1500 mm, STB-APK-1-50-F, Fz=23,0 kN

U71K_ _B

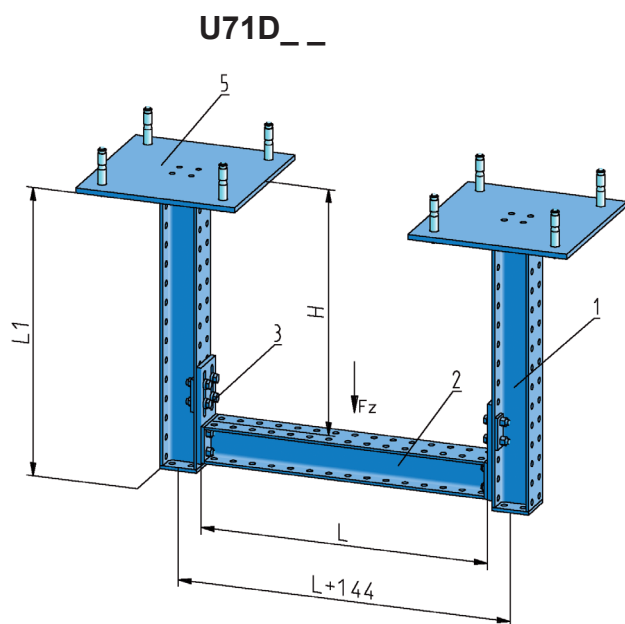


Bridge U71K_ _B (Connection section 190-310)

	L1	A_	B_	C_	D_	E_	F_	G_
	H	300	600	900	1200	1500	1800	2100
		20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_B L=600	Fz[kN]	32,0	35,0	27,0	21,0	18,0	15,0	13,0
	kg	99,5	110,9	122,5	133,9	145,5	157,1	168,5
_C L=900	Fz[kN]	23,0	33,0	26,0	21,0	17,0	15,0	13,0
	kg	105,3	116,7	128,3	139,7	151,3	162,9	174,3
_D L=1200	Fz[kN]	18,0	29,0	24,0	20,0	17,0	14,0	12,0
	kg	111,0	122,4	134,0	145,4	157,0	168,6	180,0
_E L=1500	Fz[kN]	15,0	24,0	23,0	19,0	16,0	14,0	12,0
	kg	116,8	128,2	139,8	151,2	162,8	174,4	185,8
_F L=1800	Fz[kN]	12,0	21,0	21,0	18,0	16,0	14,0	12,0
	kg	122,6	134,0	145,6	157,0	168,6	180,2	191,6
_G L=2100	Fz[kN]	10,0	18,0	20,0	17,0	15,0	13,0	11,0
	kg	128,3	139,7	151,3	162,7	174,3	185,9	197,3

- Pos.1:** STB-0300-F up to STB-2100-F (2x)
Pos.2: STB-0600-F up to STB-2100-F
Pos.3: STB-APV-3-F (2x)
Pos.4: STB-APK-2-50-F (Connection section 190-310) (2x)

Example: U71KCEB = Bridge, clamp connection, L1=900 mm, L=1500 mm, STB-APK-2-50-F, Fz=23,0 kN



Bridge U71D_ _ (Plugplate)

	L1	A_	B_	C_	D_	E_	F_	G_
		300	600	900	1200	1500	1800	2100
	H	20 / 206	- 506	- 806	- 1106	- 1406	- 1706	- 2006
_B L=600	Fz[kN]	31,0	23,0	18,0	15,0	13,0	11,0	10,0
	kg	100,7	112,1	123,7	135,1	146,7	158,3	169,7
_C L=900	Fz[kN]	29,0	23,0	18,0	15,0	13,0	11,0	10,0
	kg	106,5	117,9	129,5	140,9	152,5	164,1	175,5
_D L=1200	Fz[kN]	25,0	21,0	18,0	15,0	13,0	11,0	10,0
	kg	112,2	123,6	135,2	146,6	158,2	169,8	181,2
_E L=1500	Fz[kN]	22,0	20,0	17,0	14,0	12,0	11,0	10,0
	kg	118,0	129,4	141,0	152,4	164,0	175,6	187,0
_F L=1800	Fz[kN]	19,0	18,0	16,0	14,0	12,0	11,0	9,0
	kg	123,8	135,2	146,8	158,2	169,8	181,4	192,8
_G L=2100	Fz[kN]	17,0	17,0	15,0	13,0	12,0	10,0	9,0
	kg	129,5	140,9	152,5	163,9	175,5	187,1	198,5

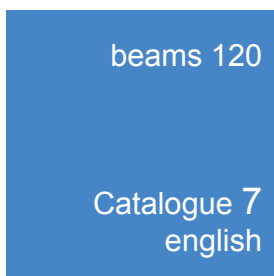
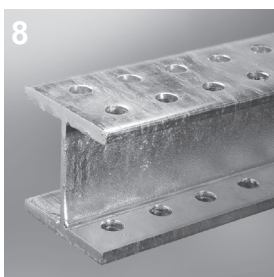
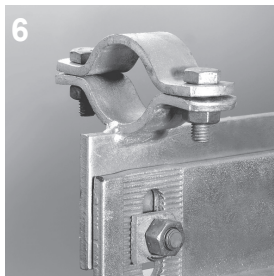
Pos.1: STB-0300-F up to STB-2100-F (2x)

Pos.2: STB-0600-F up to STB-2100-F

Pos.3: STB-APV-3-F (2x)

Pos.5: STB-APD-50-F (2x)

Example: U71DCE = Bridge, plug connection, L1=900 mm, L=1500 mm, STB-APD-50-F, Fz=17,0 kN



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