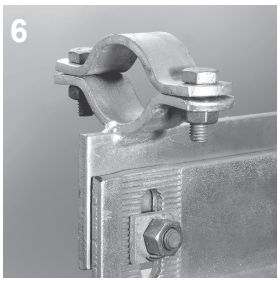
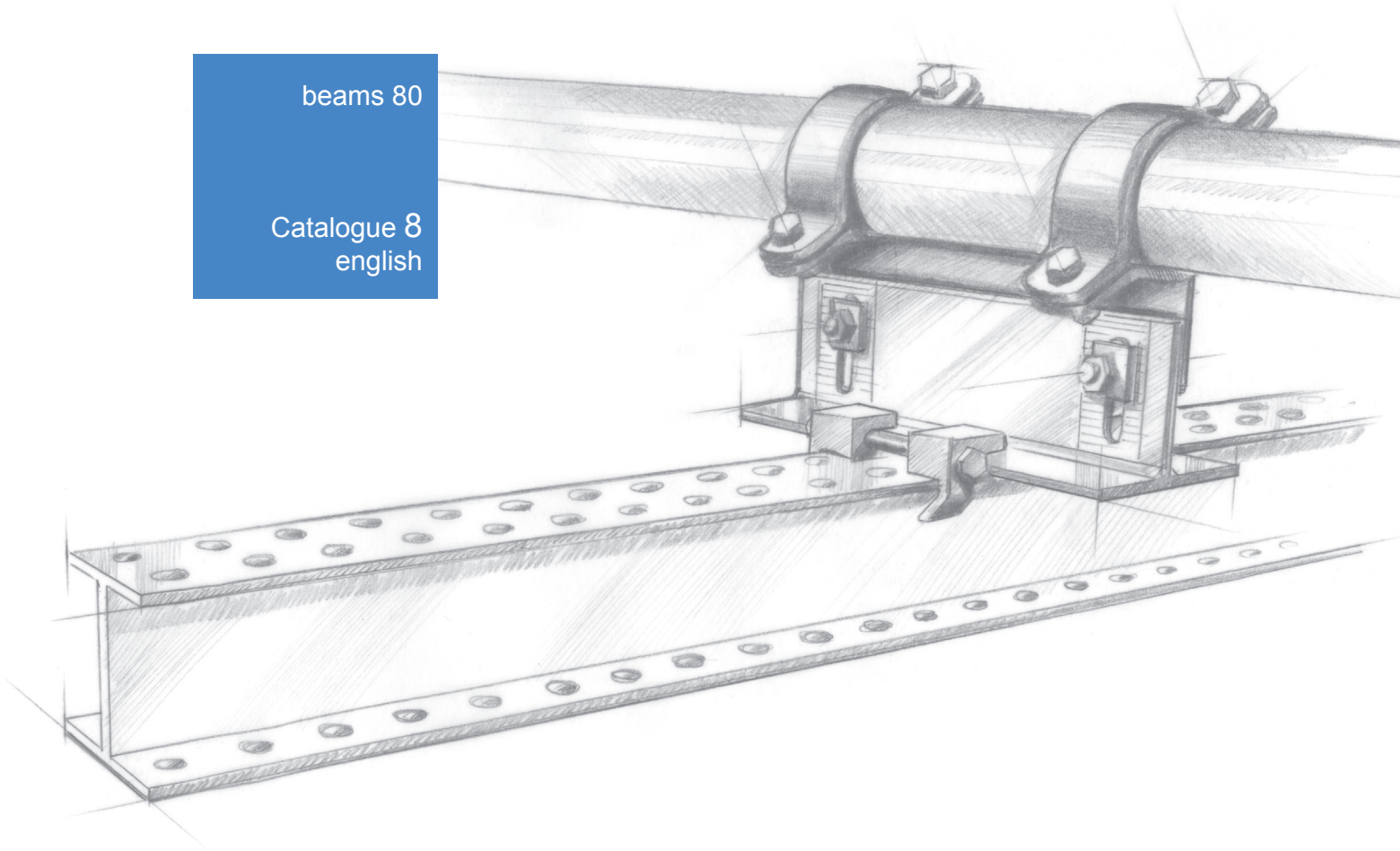


Bernecker modular 4D

beams 80

Catalogue 8
english

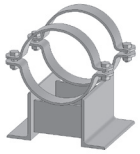


Bernecker modular 4D

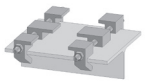
Overview

catalogue no.

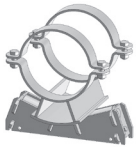
Pipe clamps, ancillary equipment **1**



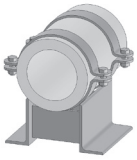
Sliding supports **2**



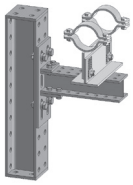
Clamp systems **3**



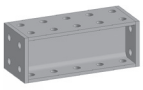
Roller bearings **4**



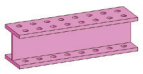
Pre-insulated pipe supports **5**



ModularSystems / ModularSupport **6**



ModularSteel 120 **7**



ModularSteel 80 **8**

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ModularSteel 80

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Scaffold Type UL68	**16 - 19**
Scaffold Type UL67	**20 - 23**
Scaffold Type UL69	**24 - 27**
Scaffold Type UL70	**28 - 31**
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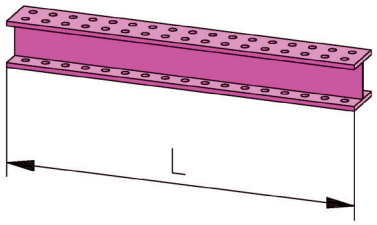
For any typographical errors, product changes due to technical developments and changing model no liability is accepted. In addition, all components must be used according to purposes.

Additional information about our delivery services, as well as technical information, can be taken from catalogue 6.
Please consider our assembling instructions on page 8.

Our general terms and conditions apply.

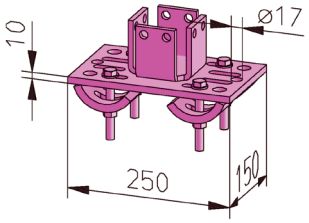
Catalogue of components

System beam

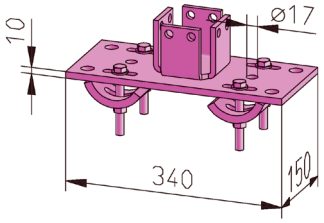


	Article no.	length [L]	weight
080101	**STL-0295-F**	295 mm	3,2 kg
080102	**STL-0610-F**	610 mm	6,7 kg
080103	**STL-0925-F**	925 mm	10,2 kg
080104	**STL-1240-F**	1240 mm	13,6 kg
080105	**STL-1555-F**	1555 mm	17,1 kg
080106	**STL-1870-F**	1870 mm	20,6 kg

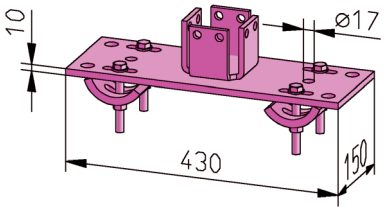
Adapter plate for clamp connection
Connection section 80 - 120 mm
STL-PK-1-F 5,4 kg 080201



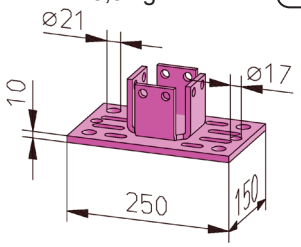
Adapter plate for clamp connection
Connection section 130 - 210 mm
STL-PK-2-F 6,5 kg 080202



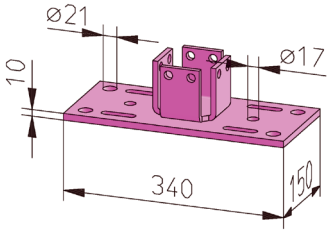
Adapter plate for clamp connection
Connection section 220 - 300 mm
STL-PK-3-F 7,6 kg 080203



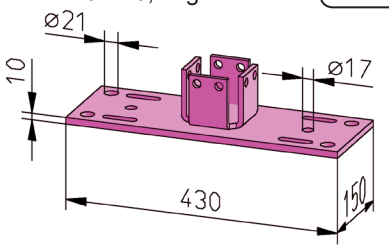
Adapter plate for plug connection
or Halfen Cast-In Channels 2 x M16
STL-PD-1-F 3,9 kg 080204



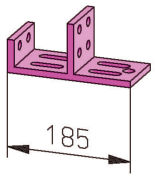
Adapter plate for plug connection
or Halfen Cast-In Channels 2 x M16
STL-PD-2-F 5,0 kg 080205



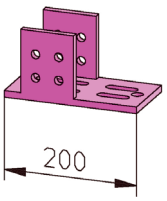
Adapter plate for plug connection
or Halfen Cast-In Channels 2 x M16
STL-PD-3-F 6,2 kg 080206



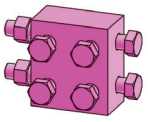
Vertical connection to system beam
STL-PV-1-F 1,6 kg 080401



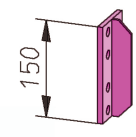
Vertical connection to system beam
turned 90° for vertical pipes
STL-PV-2-F 2,2 kg 080402



Cross connector for system beam
STL-QAS-F 1,6 kg 080403

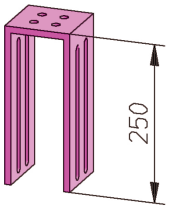


Connection, only for hanging pipes*
STL-V-F 0,9 kg 080404

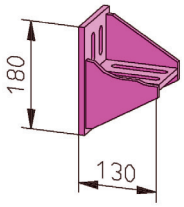


* lower load bearing capacity of system by 40%

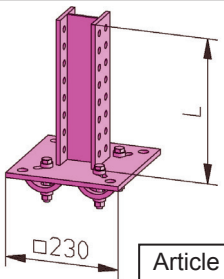
Vertical stay,
to bridge level differences up to 150 mm
STL-VS-F 4,8 kg 080501



Bridge bearing,
to bridge horizontal gaps up to 50 mm
STL-HS-F 3,9 kg 080502

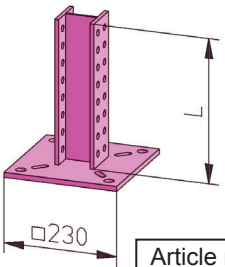


Catalogue of components



Supporting stand for clamp
Connection section 80 - 120 mm
STL-SKK-

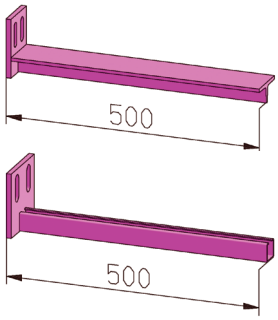
	Article no.	length [L]	weight
080601	**STL-SKK-0295-F**	295 mm	9,4 kg
080602	**STL-SKK-0610-F**	610 mm	12,9 kg
080603	**STL-SKK-0925-F**	925 mm	16,4 kg
080604	**STL-SKK-1240-F**	1240 mm	19,8 kg



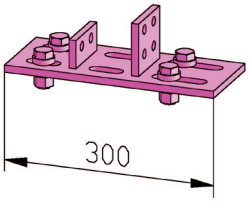
Supporting stand for plug connection
Plugplate 230 x 230 x 10 mm
STL-SKD-

	Article no.	length [L]	weight
080611	**STL-SKD-0295-F**	295 mm	7,4 kg
080612	**STL-SKD-0610-F**	610 mm	10,9 kg
080613	**STL-SKD-0925-F**	925 mm	14,4 kg
080614	**STL-SKD-1240-F**	1240 mm	17,8 kg

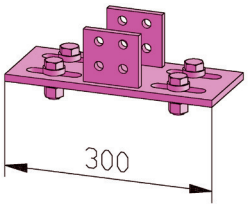
Bracket for system beam
STL-TB-500-F 3,8 kg 080621
STL-HM-500-F 1,9 kg 080622



Vertical connection
to system 120
STL-PV-3-F 3,8 kg 080411



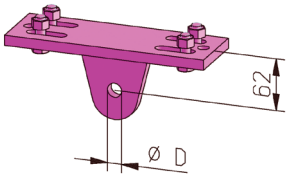
Vertical connection
to system 120
turned 90° for vertical pipes
STL-PV-4-F 4,0 kg 080412



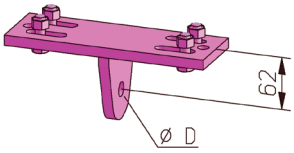
Bolt, incl. nut
STL-S-012x030-F 0,06 kg 080301

Bolt, incl. nut and washer
STL-SU-012x035-F 0,07 kg 080302

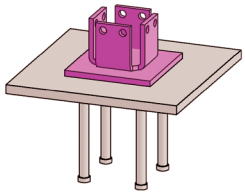
Beam hanger
STL-HP-M12-F D=13 2,7 kg 080701
STL-HP-M16-F D=17 2,7 kg 080702
STL-HP-M20-F D=21 2,7 kg 080703



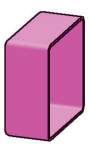
Beam hanger, axial
STL-HPA-M12-F D=13 2,7 kg 080711
STL-HPA-M16-F D=17 2,7 kg 080712



Welding plate for anchor plate
for system beam
STL-PA-F 2,7 kg 080207

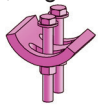


Cap
STL-KAPPE-PVC 0,06 kg 080704



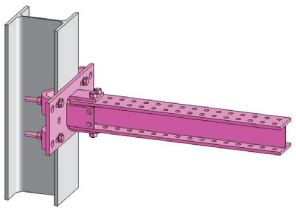
Connecting kit (comprises 4 pieces)
STL-AS-F 2,0 kg 080705

Connecting kit (comprises 2 pieces)
for horizontal connection
STL-ASD-F 1,9 kg 080706

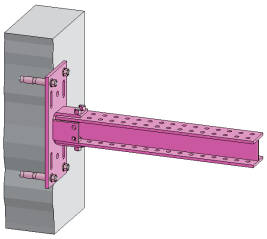


Overview of types cantilever two parts

UL61K_ _



UL61D_ _

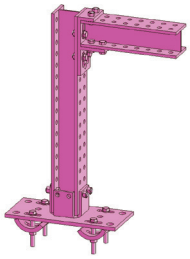


Other types on request.

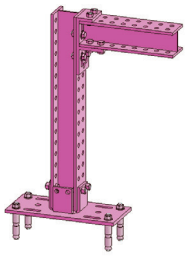
UL64K_ _ _

UL64D_ _ _

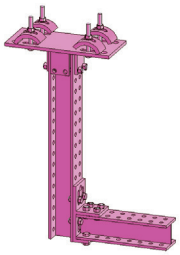
UL68K_ _ _



UL68D_ _ _



UL67K_ _ _



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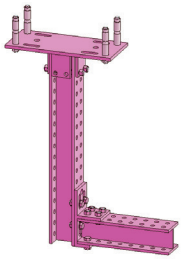
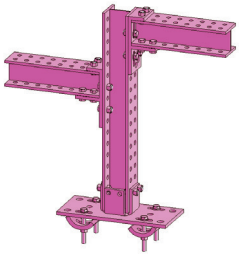
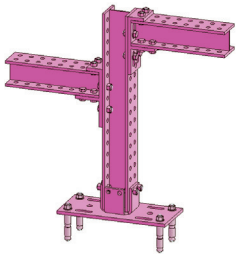


UL69K_ _ _ _



UL69D_ _ _ _



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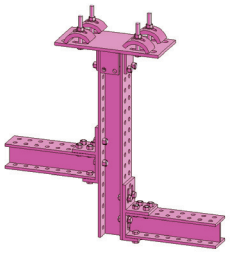
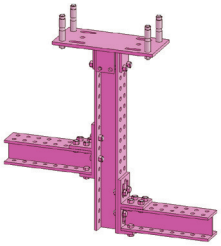


UL70D_ _ _ _



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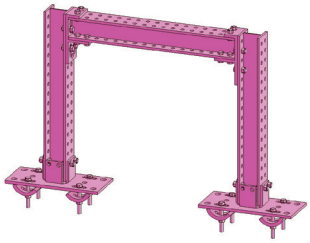

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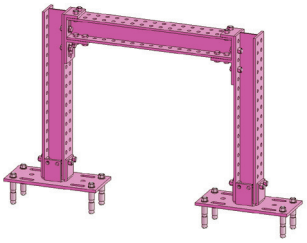
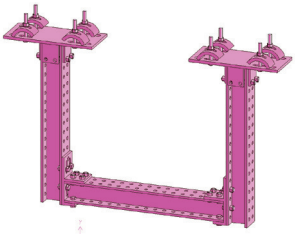
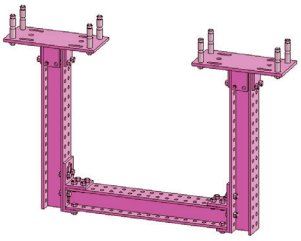


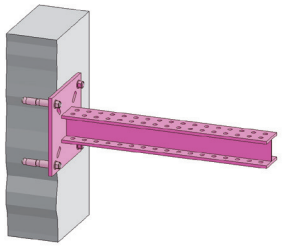
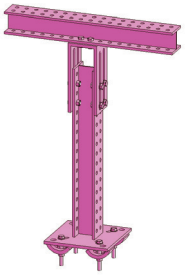
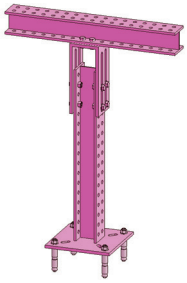
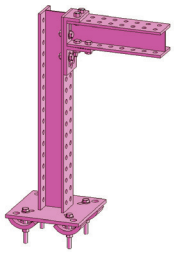
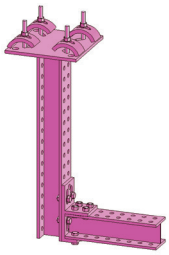
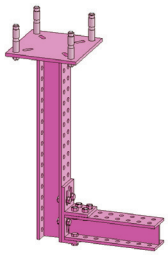
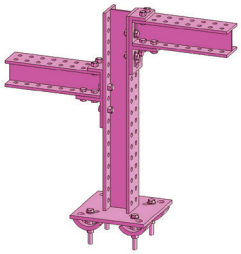
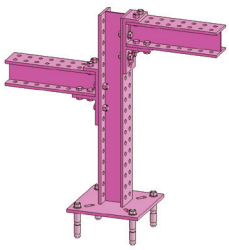
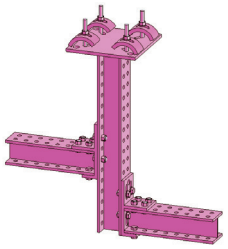
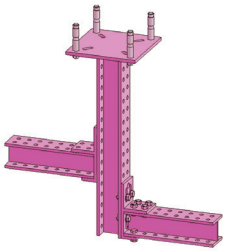
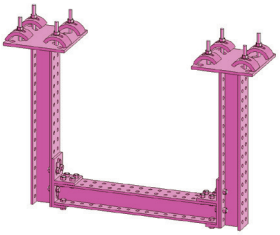
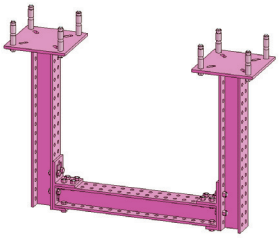
UL71K_ _ _



UL71D_ _ _



Overview of types cantilever welded

UL61K_0	UL61D_0 	**Other types on request.**	
UL64K_ _0 	UL64D_ _0 		
UL68K_ _0 	UL68D_ _0	UL67K_ _0 	UL67D_ _0 
UL69K_ _ _0 	UL69D_ _ _0 	UL70K_ _ _0 	UL70D_ _ _0 
UL66K_ _0	UL66D_ _0	UL71K_ _0 	UL71D_ _0 

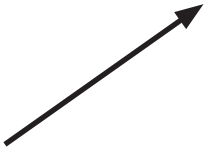
Assembly instructions

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.

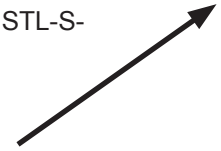
Assembly in general
The screw fastenings* must be used as shown in the sketch and tightened with the prescribed torque (Tab.1).

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

ModularSteel 120:
Washer plates* STB-U-016-F must be fitted on the flange side in all 90° connections (see sketch).

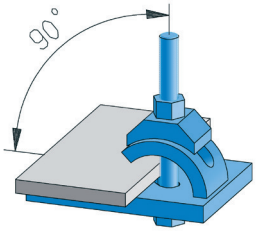


ModularSteel 80:
Screw connections with long holes must be fitted by the screw fastening* STL-SU-012x035-F. In all other cases the screw fastening* STL-S-012x030-F is used.



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.

Inquiry / Order sheet

Fax +49 2332 7003-44

Matchcode	Article no.		weight / piece	order quantity
080101	STL-0295-F		3,2 kg	
080102	STL-0610-F		6,7 kg	
080103	STL-0925-F		10,2 kg	
080104	STL-1240-F		13,6 kg	
080105	STL-1555-F		17,1 kg	
080106	STL-1870-F		20,6 kg	
080201	STL-PK-1-F		5,4 kg	
080202	STL-PK-2-F		6,5 kg	
080203	STL-PK-3-F		7,6 kg	
080204	STL-PD-1-F		3,9 kg	
080205	STL-PD-2-F		5,0 kg	
080206	STL-PD-3-F		6,2 kg	
080207	STL-PA-F		2,7 kg	
080301	STL-S-012x030-F		0,1 kg	
080302	STL-SU-012x035-F		0,1 kg	
080401	STL-PV-1-F		1,6 kg	
080402	STL-PV-2-F		2,2 kg	
080403	STL-QAS-F		1,6 kg	
080404	STL-V-F		0,9 kg	
080411	STL-PV-3-F		3,8 kg	
080412	STL-PV-4-F		4,0 kg	
080501	STL-VS-F		4,8 kg	
080502	STL-HS-F		3,9 kg	
080601	STL-SKK-0295-F		9,4 kg	
080602	STL-SKK-0610-F		12,9 kg	
080603	STL-SKK-0925-F		16,4 kg	
080604	STL-SKK-1240-F		19,8 kg	
080611	STL-SKD-0295-F		7,4 kg	
080612	STL-SKD-0610-F		10,9 kg	
080613	STL-SKD-0925-F		14,4 kg	
080614	STL-SKD-1240-F		17,8 kg	
080621	STL-TB-500-F		3,8 kg	
080622	STL-HM-500-F		1,9 kg	
080701	STL-HP-M12-F		2,7 kg	
080702	STL-HP-M16-F		2,7 kg	
080703	STL-HP-M20-F		2,7 kg	
080711	STL-HPA-M12-F		2,7 kg	
080712	STL-HPA-M16-F		2,7 kg	
080704	STL-Kappe-PVC		0,1 kg	
080705	STL-AS-F		2,0 kg	
080706	STL-ASD-F		1,9 kg	

Client no.: ..... Name: ..... Project: .....

Date: ..... Company stamp / Signature: .....