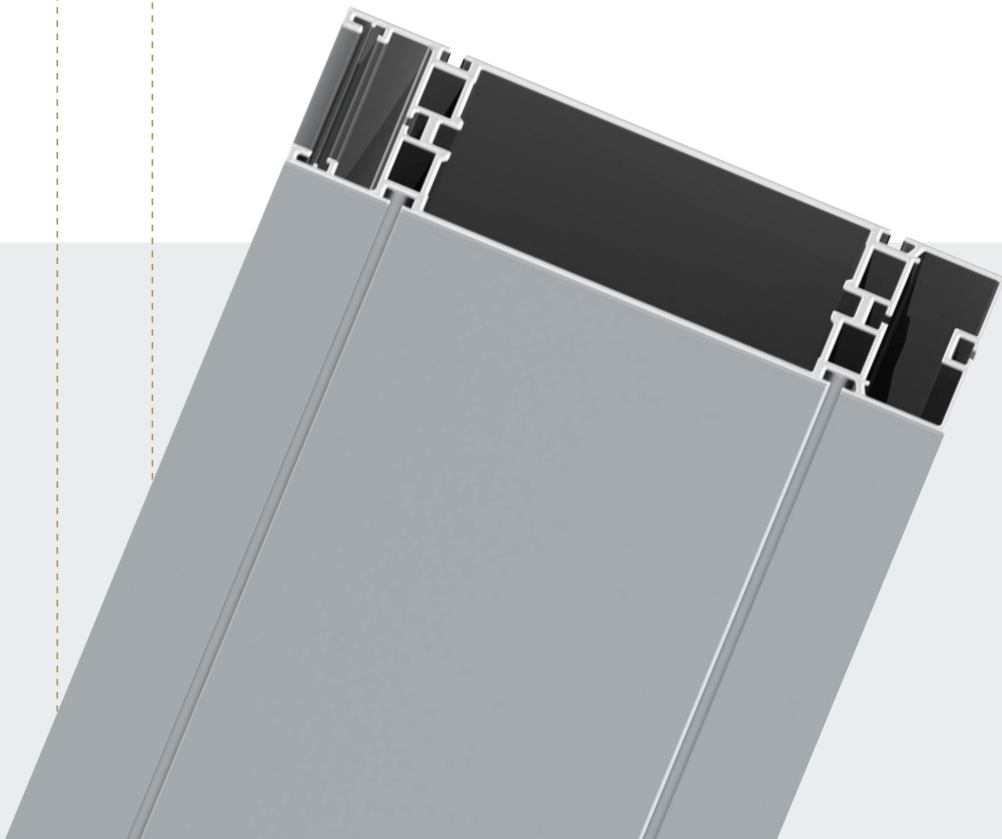


octarig

240 mm

Technics 03/26

Stable ceiling system



➤ Contents

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➤ Hinges	15
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Basic parts

octarig

Supporting beam

for R 260 / R 290
L 6930 × W 240 × H 80 mm

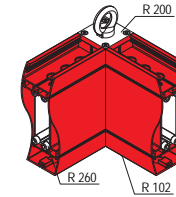
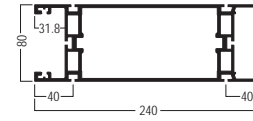


R 102.01

aluminium

for adaptor R 260 and connector R 290, for installation of 4 × tension lock Z 961/13

L 6930 × W 240 × H 80 mm | 53.23 kg



Cover extrusion

for extrusion R 102
L 6930 × W 80 × H 14 mm

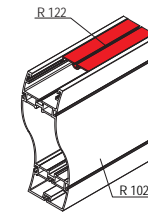
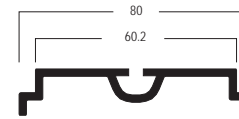


R 122.01

aluminium

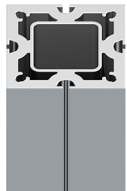
for use with supporting beam extrusion R 102

L 6930 × W 80 × H 14 mm | 4.32 kg



Upright extrusion

4 system grooves
L 5040 × W 80 × H 80 mm

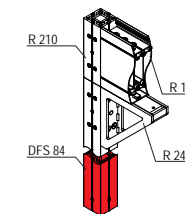
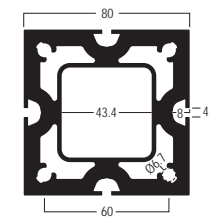


DFS 84.01

aluminium

as upright, upright extension and upright pylon extension, with 4 system grooves

L 5040 × W 80 × H 80 mm | 38.95 kg



Basic parts

octarig

Supporting beam

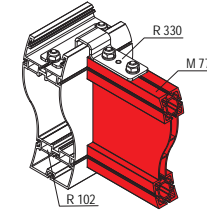
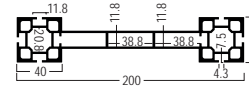
6 system grooves
L 7000 x W 200 x H 40 mm



M 770.01

aluminium

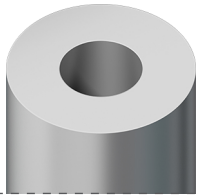
2 x tension lock Z 961/8 can be mounted in 2 positions or 3 x tension lock Z 961/13 with adaptor Z 161/A, with 6 system grooves
L 7000 x W 200 x H 40 mm | 35.533 kg



! Attention: Pay attention to lock direction.

Round extrusion

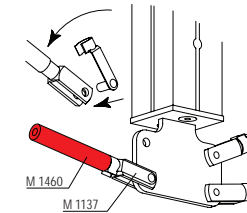
16 mm dia.
L 6000 x W 16 x H 16 mm



M 1460.01

aluminium

16 mm dia.
L 6000 x W 16 x H 16 mm | 2.567 kg



Internal connector

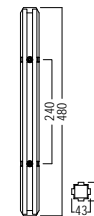
straight
for upright extrusion DFS 84



R 212.37

steel

for upright extrusion extension / support pylon extension made of extrusion DFS 84, with 8 x countersunk screw R213 (M10)
L 480 x W 43 x H 43 mm | 4.984 kg



Basic parts

octarig

Connector

with eyelet 35 mm dia.
for R 260

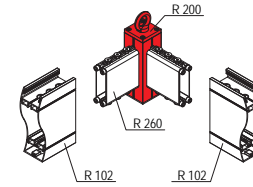
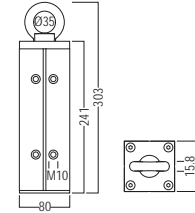


R 200.01

aluminium/steel

to mount adaptor R 260 in case of suspension, incl. eyelet 35 mm dia., with 16 × thread M10

L 80 × W 80 × H 303 mm | 2.92 kg



Attention: max. load capacity 500 kg

Connector

for R 206 / DFS 84
L 80 × W 80 × H 480 mm

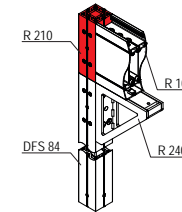
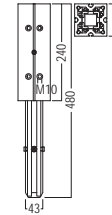


R 210.01

aluminium/steel

to mount adaptor R 260, for elevation of the construction, plug on and screw to uprights made of DFS 84, incl 16 × thread M10

L 80 × W 80 × H 480 mm | 7.022 kg



Connector

for pylon construction
for R 260

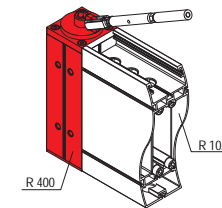
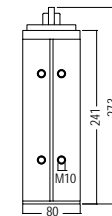


R 400.37

aluminium/steel

for pylon construction with tension brace junction knot R 408, to screw on adaptor R 260, incl. 16 × thread M10

L 80 × W 80 × H 273 mm | 1.979 kg



Basic parts

octarig

Connector part

for DFS 84 / R 102
L 140 × W 152 × H 46 mm

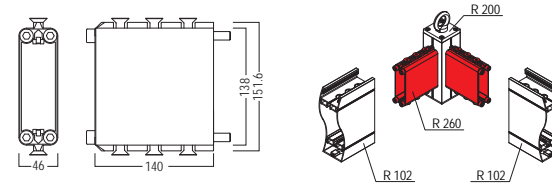


R 260.01

aluminium

to mount to upright extrusion DFS 84 and supporting beam R 102, incl. 4 × cylinder screw R 260/21 (M10) and 6 × countersunk screw DFL 340/5S (M10)

L 140 × W 152 × H 46 mm | 1.15 kg



Attention: R 260 required for mounting of supporting beam R 102 between two upright extrusions DFS 84

Internal connector

450 mm long
for extrusion R 102

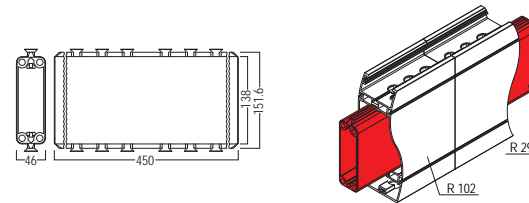


R 290.01

aluminium

straight, for connection of 2 × supporting beam R 102, incl. 12 × countersunk screw DFL 340/5S (M10)

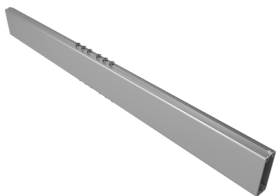
L 450 × W 152 × H 46 mm | 2.295 kg



Attention: R 290 required for mounting of extended supporting beam between two upright extrusions DFS 84

Internal connector

1500 mm long
for extrusion R 102

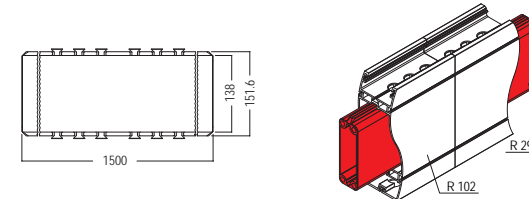


R 295.01

aluminium

straight, for connection of 2 × supporting beam R 102, incl. 12 × countersunk screw DFL 340/5S (M10)

L 1500 × W 152 × H 46 mm | 7.65 kg



Attention: R 295 required for mounting of extended supporting beam between two upright extrusions DFS 84

Accessories

octarig

Base plate

M8
for DFS 84 / DFL 150

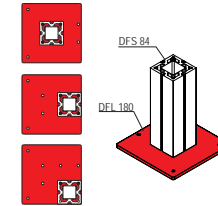
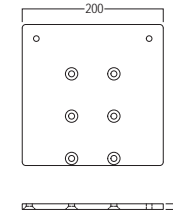


DFL 180.37

steel

for upright DFS 84 / DFL 150, for centre, edge or corner setup, with 6 × drill hole for countersunk screw M8, incl. 4 × countersunk screw M8 × 25 DFL 180/20

L 200 × W 200 × H 8 mm | 2.529 kg



End plate

for extrusion R 102
L 241 × W 81 × H 8 mm

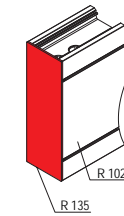
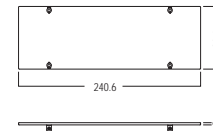


R 135.21

steel

for use with supporting beam extrusion R 102, with 4 × set screw M 1075/20 (M4)

L 241 × W 81 × H 8 mm | 0.466 kg



Tension brace knot

for R 200
L 70 × W 70 × H 32 mm

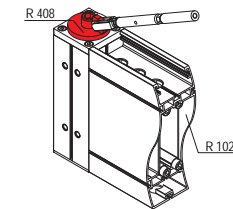
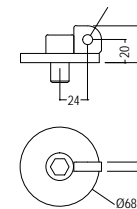


R 408.37

steel

for modification of connector R 200, incl. 1 × cylinder screw R 408/20 (M16)

L 70 × W 70 × H 32 mm | 0.317 kg



Accessories

octarig

Tension brace knot

for upright extrusion DFS 84
L 80 × W 80 × H 12 mm

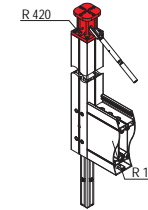
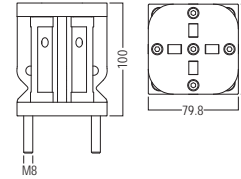


R 420.37

steel

to mount to upright pylon extension DFS 84, incl. 4 × cylinder screw R 200-20 (M8)

L 80 × W 80 × H 12 mm | 2.248 kg



Quicklink

M8
for round tube M 1460

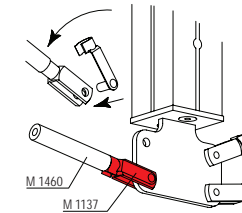
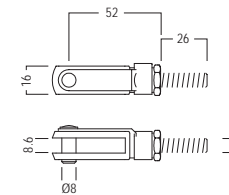


M 1137.37

steel

for mounting to round tube M 1460, incl. 1 × set screw M 1137/20 (M8), 1 × hexagon nut M 1137/30 (M8) and spring hinged bolt

L 95 × W 22 × H 16 mm | 0.081 kg



Fixing set

for system groove 4.3 mm
for power rails

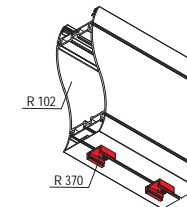
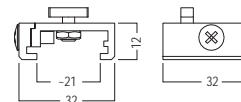


R 370.21

aluminium

for mounting power rails to 4.3 mm system groove, with fixing accessories M5 (SW 8 mm)

L 32 × W 32 × H 12 mm | 0.02 kg



Accessories

octarig

End cap

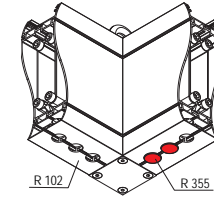
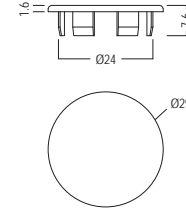
for 24 mm dia. drill hole
L 29 × W 29 × H 8 mm



R 355.35

plastic

to cover drill holes with 24 mm dia.
L 29 × W 29 × H 8 mm |



End cap

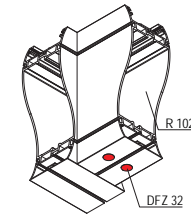
for 13 mm dia. drill hole
L 17 × W 17 × H 7.2 mm



DFZ 32.35

plastic

to cover drill holes with 13 mm dia.
L 17 × W 17 × H 7.2 mm |



Fixing set

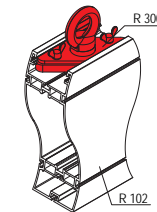
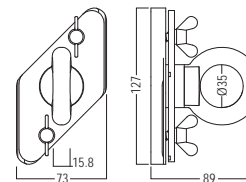
max. 300 kg
for rope suspension



R 300.37

steel

to turn into supporting beam extrusion R 102, for rope suspension,
with eyelet 35 mm dia.
L 73 × W 127 × H 89 mm | 1.055 kg



Attention: max. load capacity 300 kg

Accessories

octarig

Connector part

max. 150 kg
for rope suspension

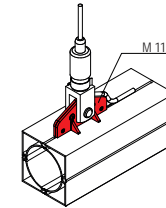
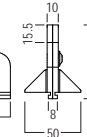
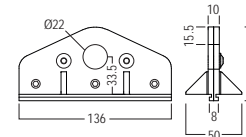


M 1172.37

steel

usable for rope suspension, for connection to 4,3 mm system groove, incl. 3 × set screw M 1435/70 (M8) and 2 × lenticular flange head screw M 1557/20 (M6), max. load capacity 150 kg

L 136 × W 66 × H 50 mm | 0.536 kg



Attention: max. load capacity 150 kg

Connector part

max. 100 kg
for rope suspension

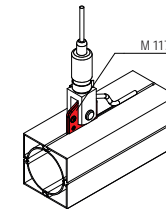
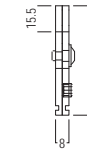
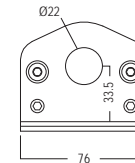


M 1174.37

steel

usable for rope suspension, for connection to 4,3 mm system groove, incl. 2 × set screw M 1435/70 (M8) and 2 × lenticular flange head screw M 1557/20 (M6), max. load capacity 100 kg

L 76 × W 66 × H 8 mm | 0.255 kg



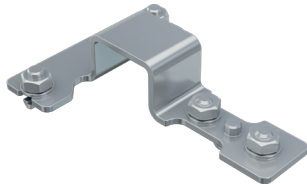
Attention: max. load capacity 100 kg

➤ Safety parts

octarig

Beam retainer

90°
for 2 × extrusion R 102

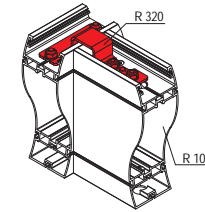
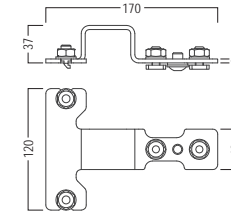


R 320.37

steel

for additional securing of 2 × supporting beam R 102 at an angle of 90°, incl. 2 × hammerhead screw M 810/HA (M10) and 2 × hammerhead screw E 265 (M10)

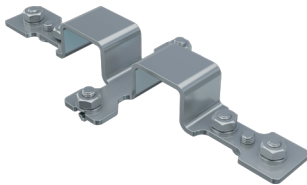
L 170 × W 120 × H 37 mm | 0.46 kg



! Attention: necessary for safety reasons

Beam retainer

90°
for 3 × extrusion R 102

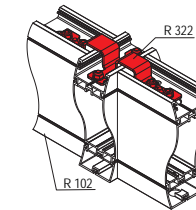
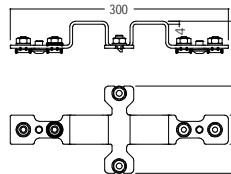


R 322.37

steel

for additional securing of 3 × supporting beam R 102 at an angle of 90°, incl. 2 × hammerhead screw M 810/HA (M10) and 4 × hammerhead screw E 265 (M10)

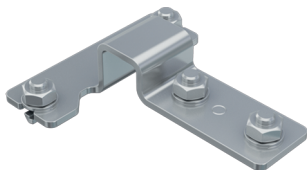
L 300 × W 120 × H 37 mm | 0.9 kg



! Attention: necessary for safety reasons

Beam retainer

90°
for extrusion R 102+M 770

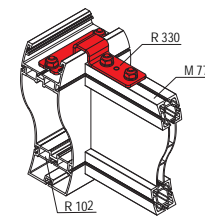
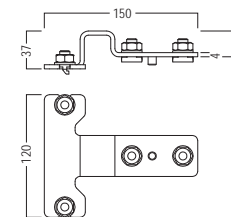


R 330.37

steel

for additional securing of supporting beam M 770 to supporting beam R 102 at an angle of 90°, incl. 4 × hammerhead screw M 810/HA (M10)

L 150 × W 120 × H 37 mm | 0.43 kg



! Attention: necessary for safety reasons

➤ Safety parts

octarig

Reinforcement

for R 260 / DFS 84
L 240 x W 78 x H 240 mm

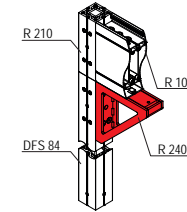
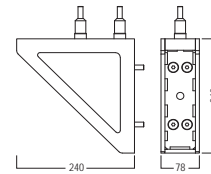


R 240.21

steel

for reinforcement of elevated octarig designs, for connector R 260 and upright extrusion DFS 84, two-piece, incl. 4 x countersunk screw DFL 340/5S(M8), 2 x countersunk screw R 240/20 (M8) and 2 x countersunk screw R 240/21 (M8)

L 240 x W 78 x H 240 mm | 6.148 kg



R 260 required for assembly of upright DFS 84 with R 210 and R 102.

Reinforcement

with 4 x M 1435/70
L 300 x W 8 x H 300 mm

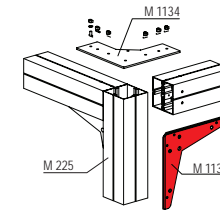
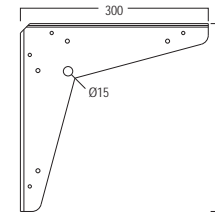


M 1139.37

steel

for system groove 4.3 mm, incl. 4 x set screw M 1435/70 (M8) and 4 x round head screw with flange M 1557/20 (M6)

L 300 x W 8 x H 300 mm | 1.978 kg



Tension fabric extr.

for double sided fabric
L 6000 × W 80 × H 9 mm

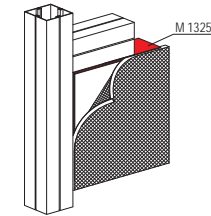
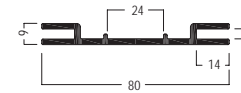


M 1325.01

aluminium

for double sided fabric (with silicone edge M 1313), for mounting in system groove with fixing set M 1345, with 13 × hole 18 mm dia.

L 6000 × W 80 × H 9 mm | 5.33 kg



I in connection M 1345

Tension fabric extr.

for double sided fabric
L 6000 × W 120 × H 9 mm

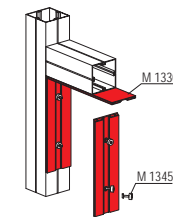
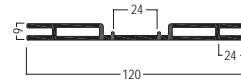


M 1330.01

aluminium

for double sided fabric (with silicone edge M 1313), for mounting in system groove with fixing set M 1345, with 13 × hole 18 mm dia.

L 6000 × W 120 × H 9 mm | 8.28 kg



I in connection with M 1345

Tension fabric extr.

for double sided fabric
L 6000 × W 40 × H 10 mm

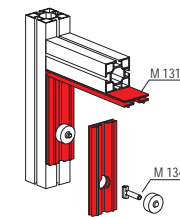
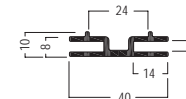


M 1310.01

aluminium

for double sided fabric (with silicone edge M 1313), for mounting in system groove with fixing set M 1345, with 13 × hole 18 mm dia.

L 6000 × W 40 × H 10 mm | 2.694 kg



I in connection with M 1345

Fixing set

for M 1310/M 1325/M 1330
L 28 × W 24 × H 24 mm

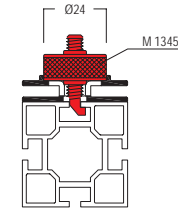
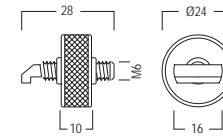


M 1345.37

steel

only for fixing of extrusions M 1310 / M 1325 / M 1330 to system groove 4.3 mm, with 1 × hammerhead screw M 1345/Ha "gunmetal finish"

L 28 × W 24 × H 24 mm | 0.039 kg



↗ Hinges

octarig

Hinged end plate

set, max 100 kg
for extrusion R 102+M 770

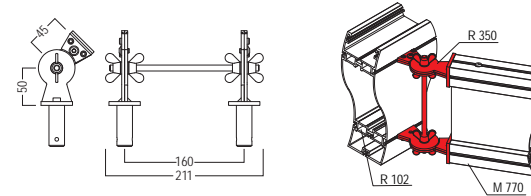


R 350.21

steel

for connection of supporting beam M 770 to supporting beam R 102 at variable angles, consisting of 2 × hinged flange plate M 1557 and 1 × wing nut set R 350/FS

L 155 × W 49 × H 211 mm | 1.913 kg



! Attention: max. load
capacity 100 kg

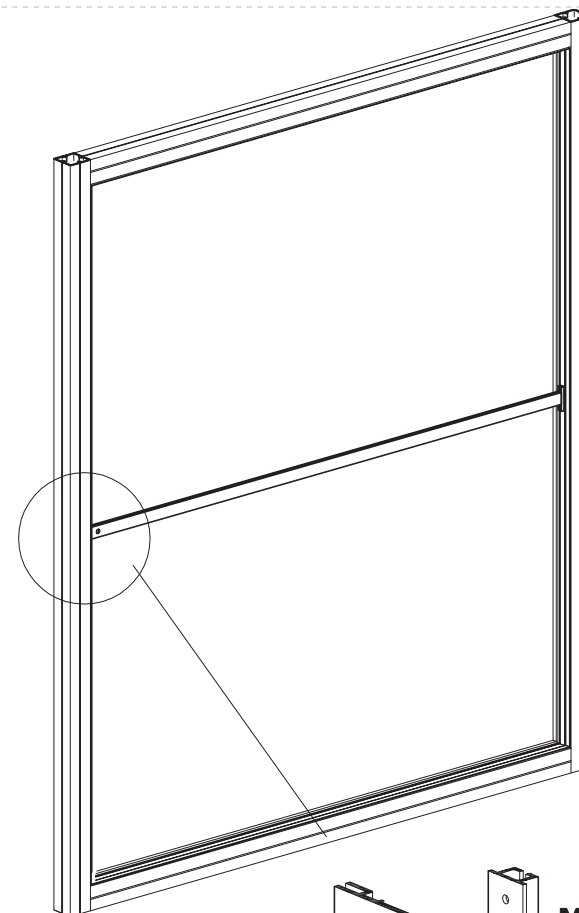
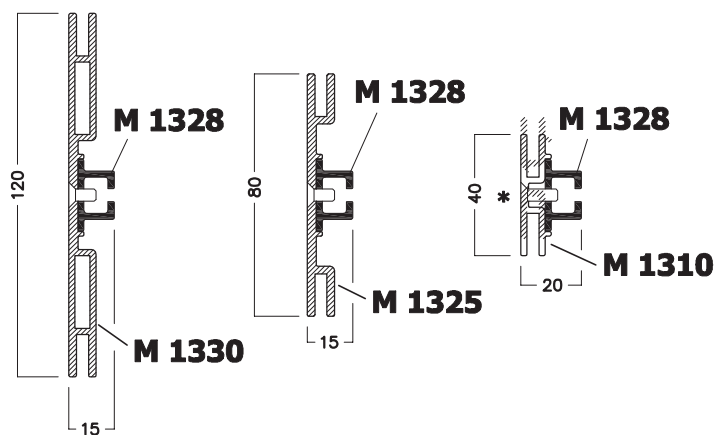
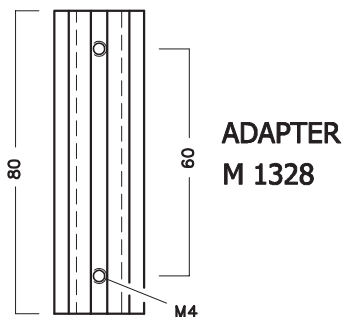
➤ technical information

➤ TI-M-57.0	18
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➤ TI-R-A01	20
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➤ TI-R-A09	21
octarig Upright & Supporting Beam (A) for octarig elevated	
➤ TI-R-A10	22
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Load capacity data for rectangular extrusion R 102	

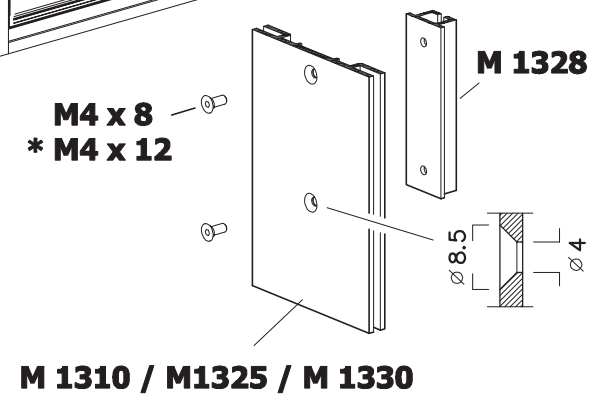
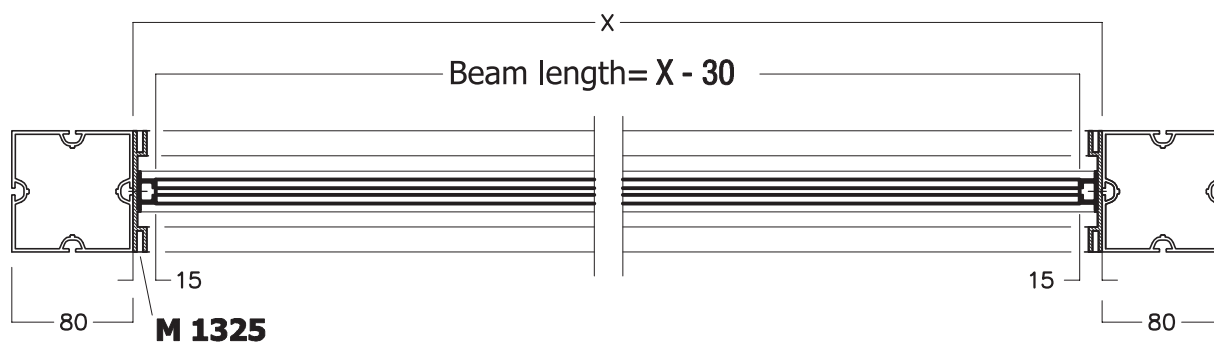
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octarig Connector & Supporting Beam (V) for octarig suspended	
➤ TI-R-B10	42
octarig Processing Notes	

"solution proposal for additional beam reinforcement"



Sample with M 1325:



TIM-57.0 EW 3136-00 25.04.08/HB 05/2008 shift

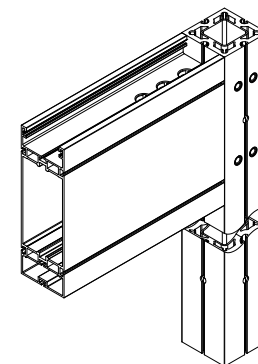
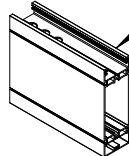
upright DFS 84 with B 148



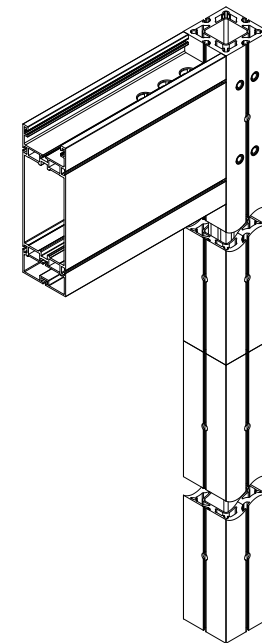
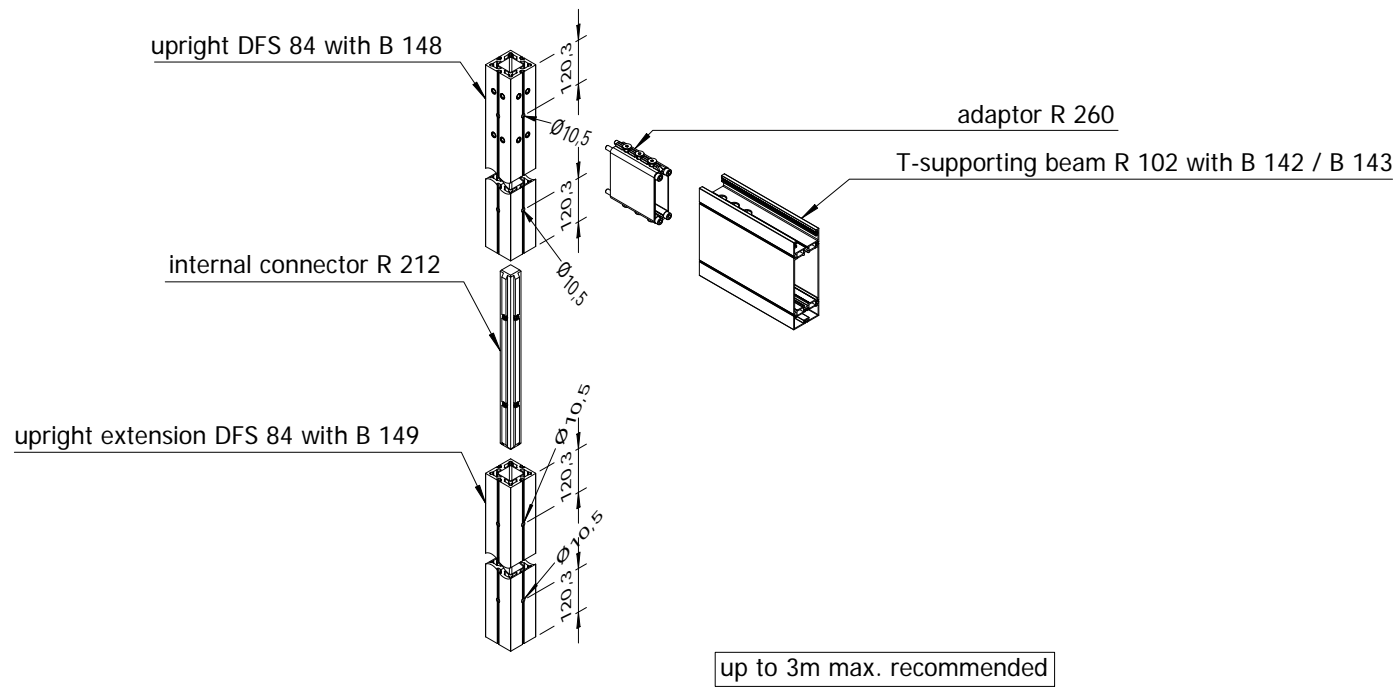
adaptor R 260

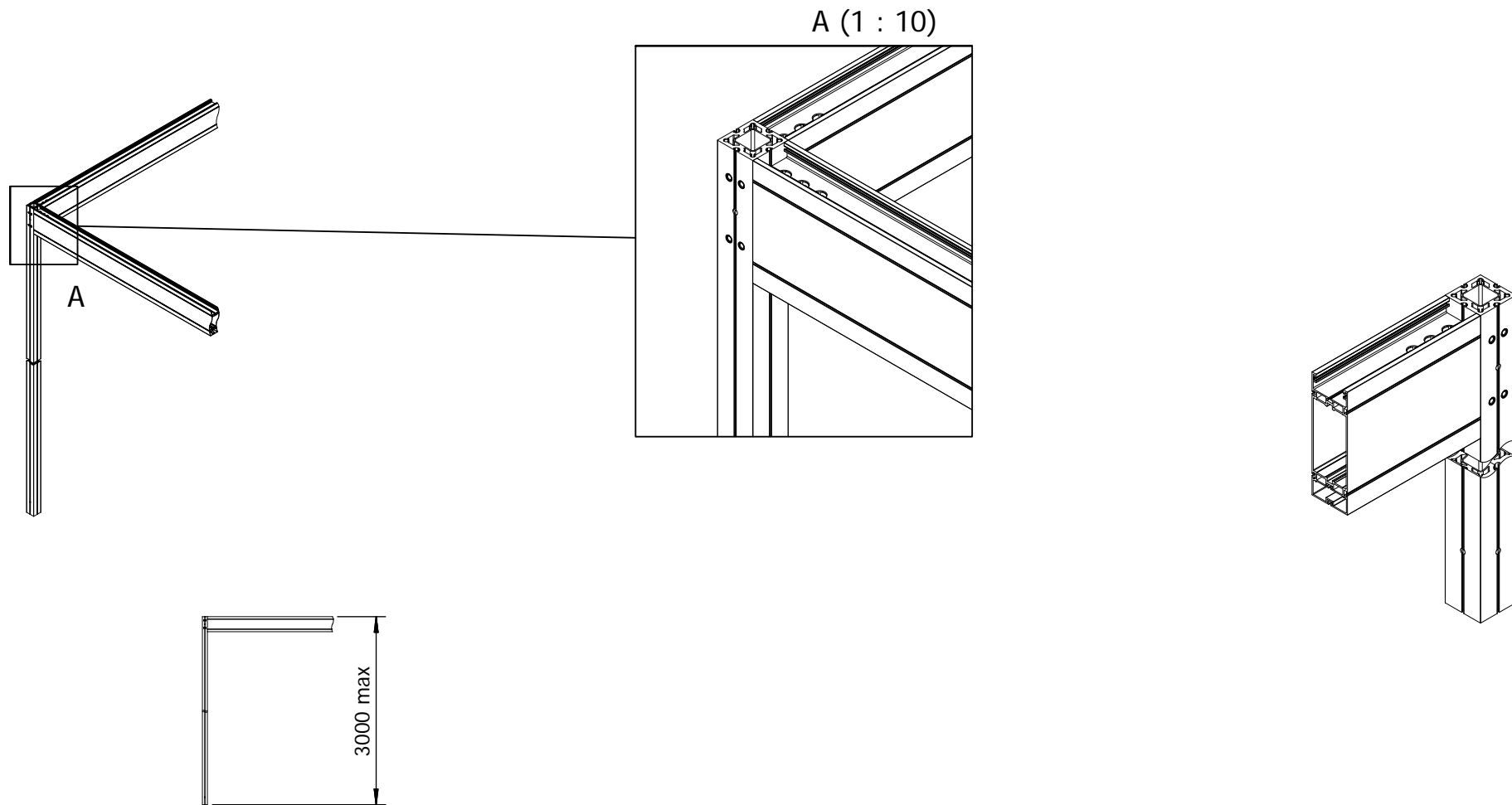


supporting beam R 102 with B 142 / B 143

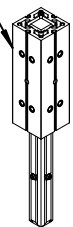


up to 3m max. recommended

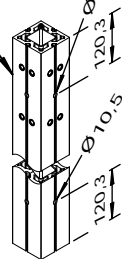




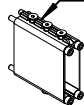
connector R 210
(incl. internal connector R 212)



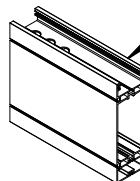
upright DFS 84 with B 148



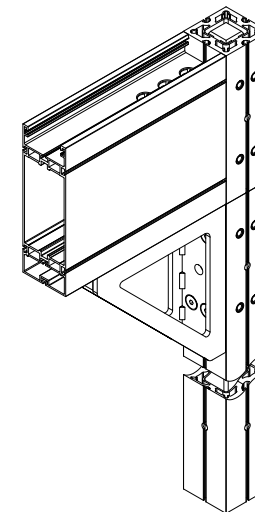
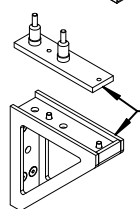
adaptor R 260

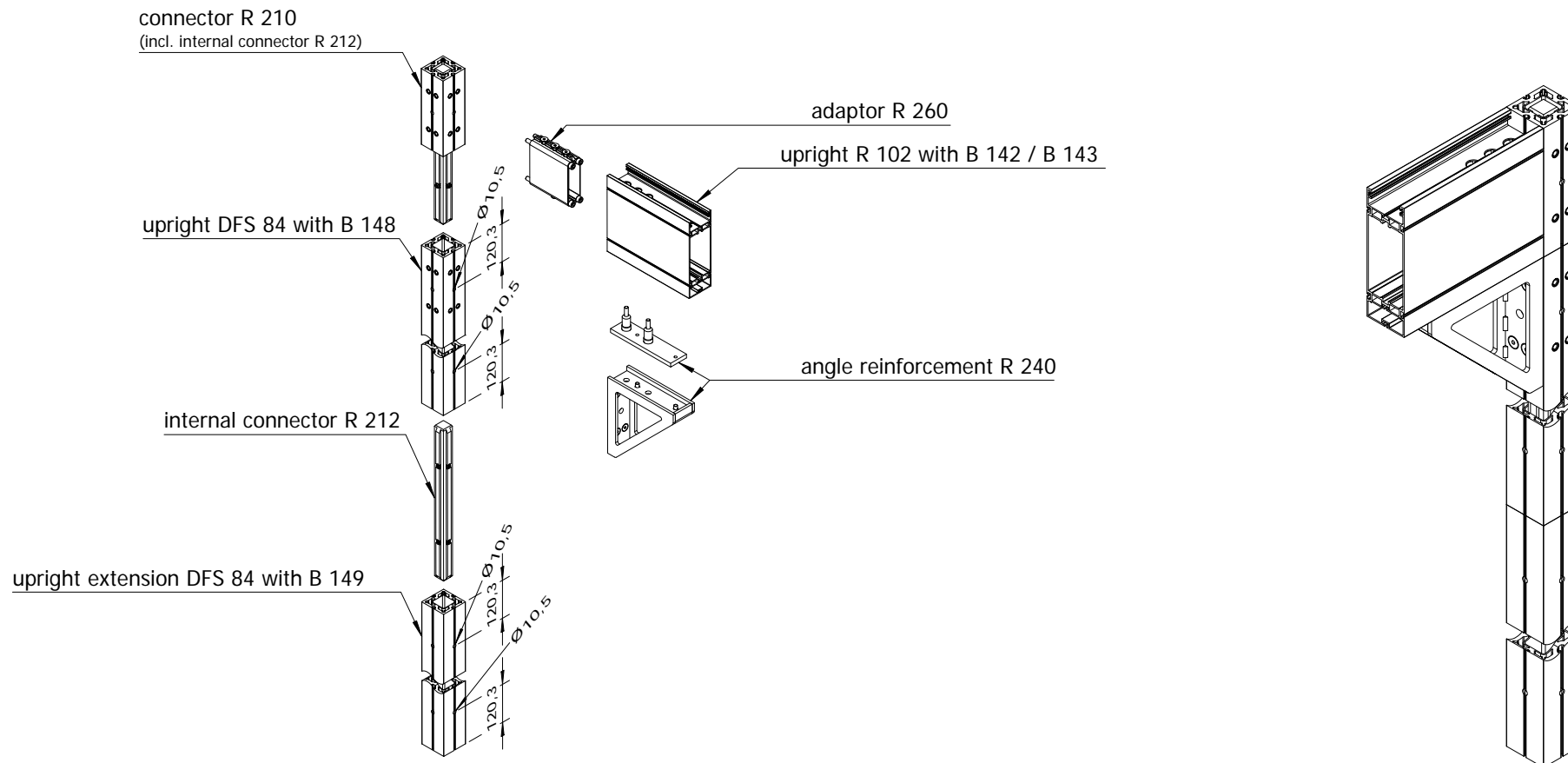


upright R 102 with B 142 / B 143

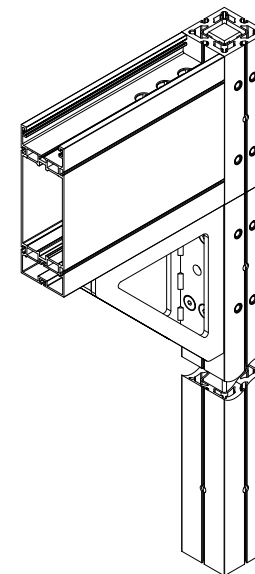
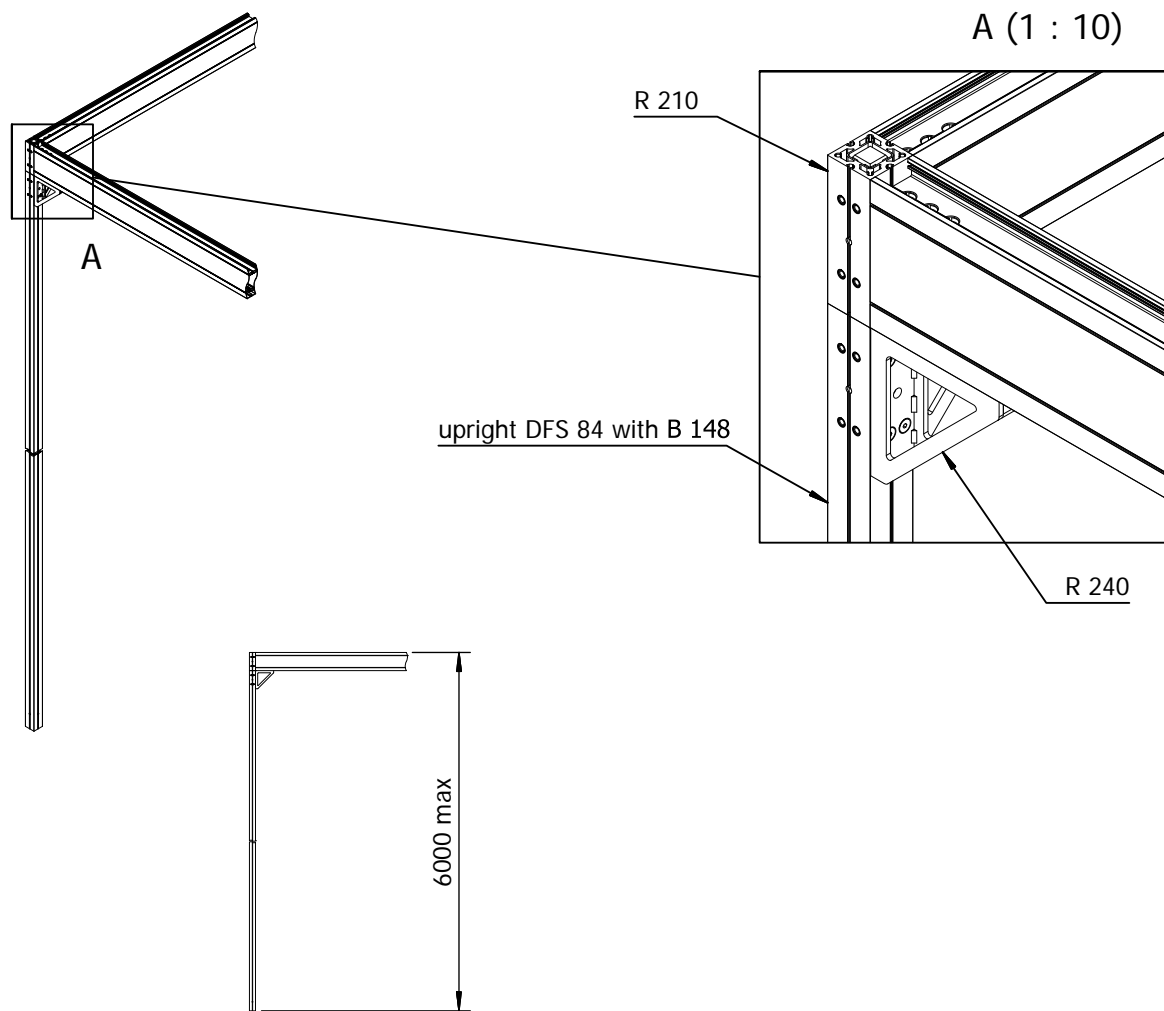


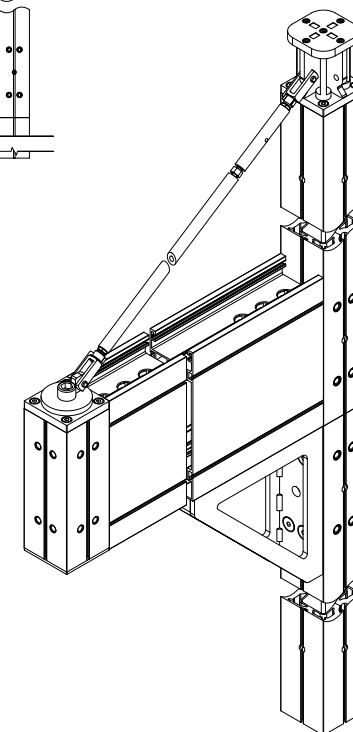
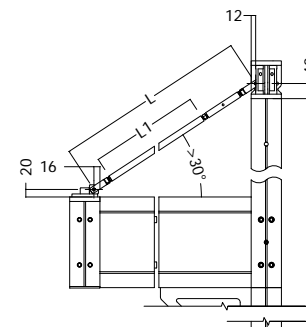
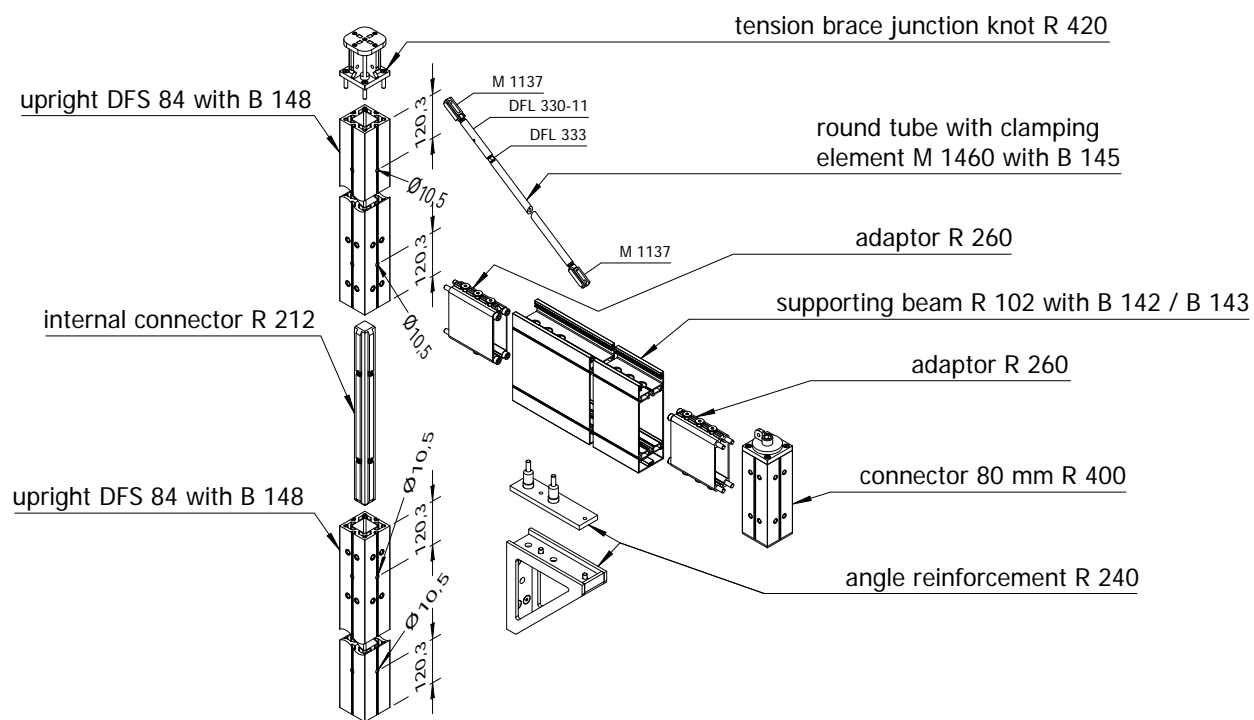
angle reinforcement R 240

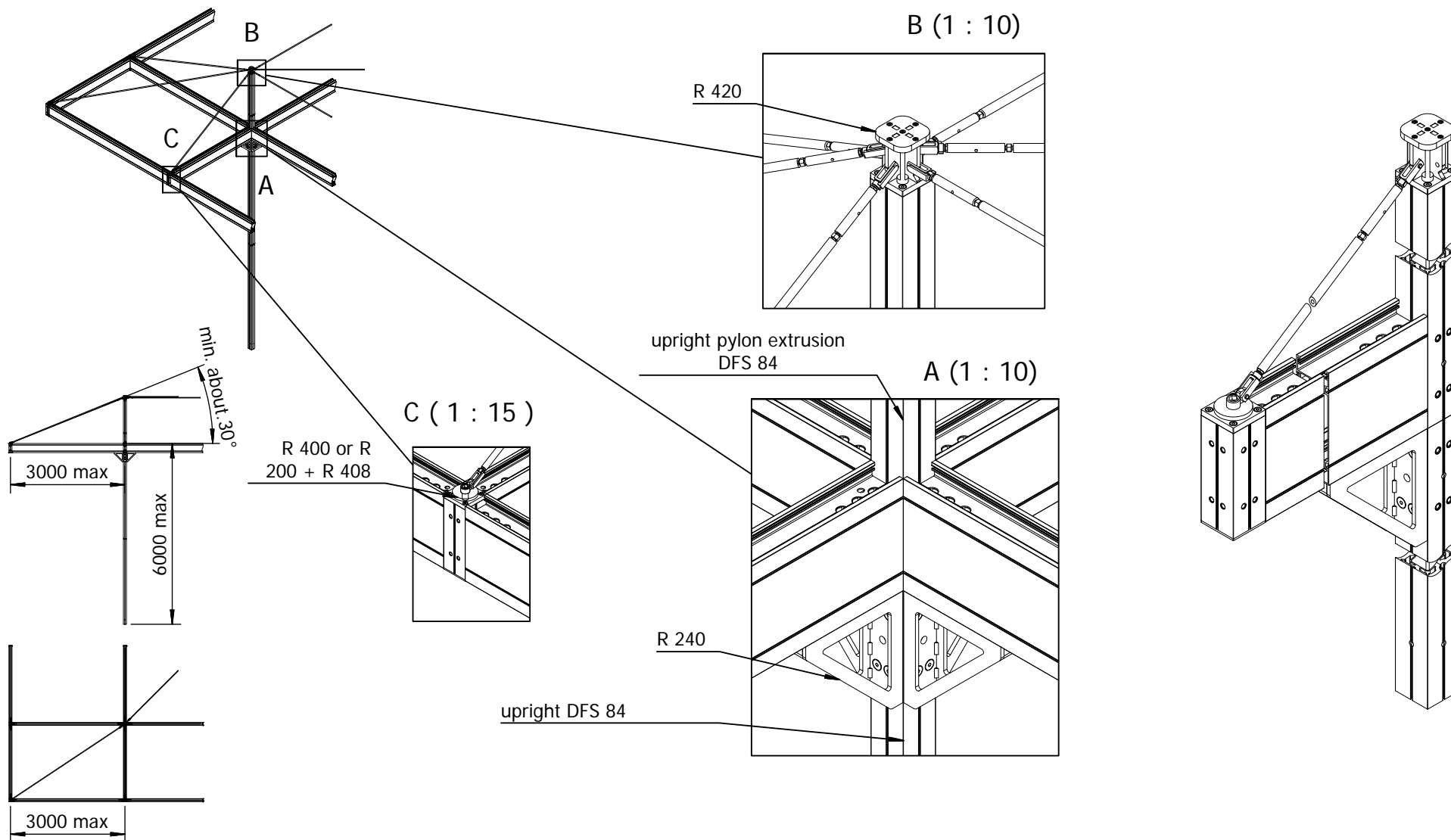




TI-R-A11 E-000533-5000A-T11 A.1 Freigegeben 29.08.2024 ED







TI-R-A29 E-000533-5100E-T29 A Freigegeben 27.10.2017 ED

Load capacity data for rectangular extrusion R 102

TI-R-A70.0D 1 / 11

technical information

The given data is valid under the condition that the extrusions are structurally prevented from twisting. Sufficient evidence for both flexural buckling and torsional flexural buckling has to be provided. Values printed in blue indicate reaching of the tension limit with a safety factor of 1.35. Load figures include the dead weight of the extrusion, i.e. the indicated load can be used in whole for additional extrusions or exhibits. Flexible mounting was estimated for calculation so as to demonstrate load bearing capacity and deflection of the R 102 extrusion. In combination with the R 260 adaptor, the R 200 (or DFS 84) connector and the R 102 supporting beam feature a maximum moment of 5.5 kNm. The true deformation can be a little bit more than stated in the table below as any slippage between the components cannot be taken into account.

Maximum admissible load (in addition to dead load) and resulting calculated deflections of single span beams at permitted maximum deflection of 1/200 or 1/300 of span.

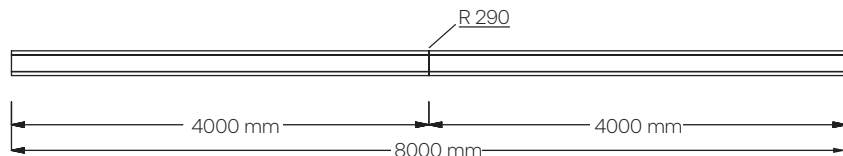
Load-bearing capacity – Beam extension examples with connector R 290

The following examples show how the possible load capacity increases in equally long constructions with hinged single span beams the closer the extension is in the edge area.

PLEASE NOTE: Static calculation of the construction might be necessary in particular cases!

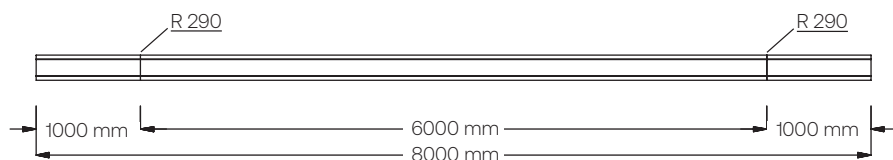
R 102	Beam span	2.0	2.5	3.0	3.5	4.0	4.5
	Single load in centre of beam (kg)	2750	2200	1830	1565	1365	1210
	Evenly distributed load (kg/m)	2750	1760	1220	890	685	490
	Deflection 1/200 (cm)	<1.00	<1.25	<1.50	<1.75	<2.0	(<)2.25
	Single load in centre of beam (kg)	2750	2200	1830	1510	1150	910
	Evenly distributed load (kg/m)	2750	1760	1090	660	460	325
	Deflection 1/300 (cm)	<0.67	<0.83	(<)1.00	1.17	1.33	1.50

R 102	Beam span	5.0	5.5	6.0	6.5	7.0
	Single load in centre of beam (kg)	1085	915	765	645	550
	Evenly distributed load (kg/m)	355	265	205	160	125
	Deflection 1/200 (cm)	(<)2.50	2.75	3.00	3.25	3.50
	Single load in centre of beam (kg)	735	603	502	422	358
	Evenly distributed load (kg/m)	235	176	134	104	82
	Deflection 1/300 (cm)	1.67	1.83	2.00	2.17	2.33



Beam span: 4 + 4 m = 8 m (central extension)

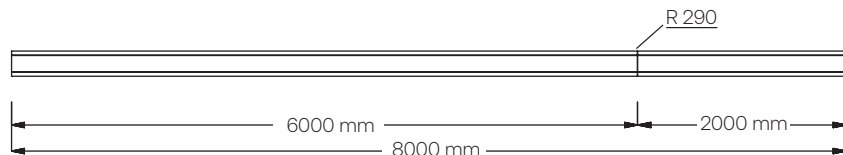
Single load in centre of beam (kg)	174	Single load in centre of beam (kg)	174
Evenly distributed load (kg/m)	43	Evenly distributed load (kg/m)	43
Deflection 1/200 (cm)	4.00 - vorh. 1.89 (P)* 4.00 - vorh. 2.25 (L)**	Deflection 1/300 (cm)	2.67 - vorh. 1.89 (P)* 2.67 - vorh. 2.25 (L)**



Beam span: 1 + 6 + 1 m = 8 m (eccentric extension)

Single load in centre of beam (kg)	410	Single load in centre of beam (kg)	260
Evenly distributed load (kg/m)	82	Evenly distributed load (kg/m)	52
Deflection 1/200 (cm)	4.00	Deflection 1/300 (cm)	2.67

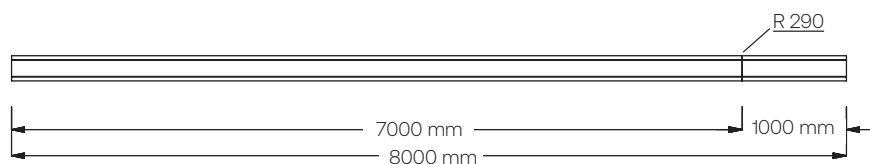
■ *P = point load, **L = line load



Beam span: 6 + 2 m = 8 m (eccentric extension)

Single load in centre of beam (kg)	360
Evenly distributed load (kg/m)	60
Deflection 1/200 (cm)	4.00 - vorh. 3.54 (P)* 4.00 - vorh. 2.99 (L)**

Single load in centre of beam (kg)	262
Evenly distributed load (kg/m)	52
Deflection 1/300 (cm)	2.67

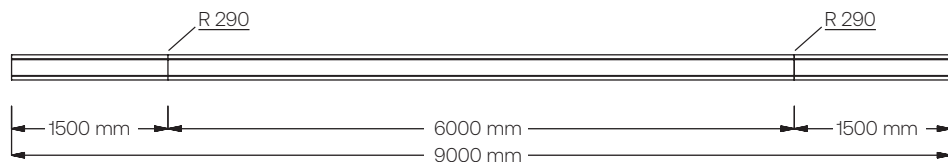


Beam span: 7 + 1 m = 8 m (eccentric extension)

Single load in centre of beam (kg)	410
Evenly distributed load (kg/m)	82
Deflection 1/200 (cm)	4.00

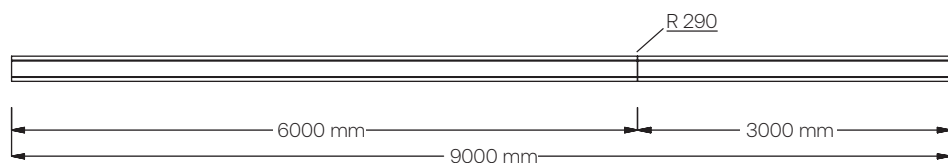
Single load in centre of beam (kg)	260
Evenly distributed load (kg/m)	52
Deflection 1/300 (cm)	2.67

■ *P = point load, **L = line load



Beam span: 1.5 + 6 + 1.5 m = 9 m (eccentric extension)

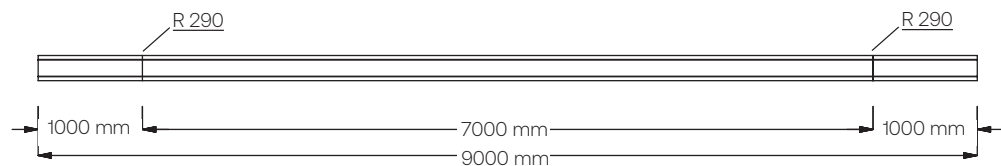
Single load in centre of beam (kg)	314	Single load in centre of beam (kg)	195
Evenly distributed load (kg/m)	55	Evenly distributed load (kg/m)	35
Deflection 1/200 (cm)	4.50	Deflection 1/300 (cm)	3.00



Beam span: 6 + 3 m = 9 m (eccentric extension)

Single load in centre of beam (kg)	225	Single load in centre of beam (kg)	195
Evenly distributed load (kg/m)	37	Evenly distributed load (kg/m)	34
Deflection 1/200 (cm)	4.50 - vorh. 3.39 (P)* 4.50 - vorh. 3.15 (L)**	Deflection 1/300 (cm)	3.00

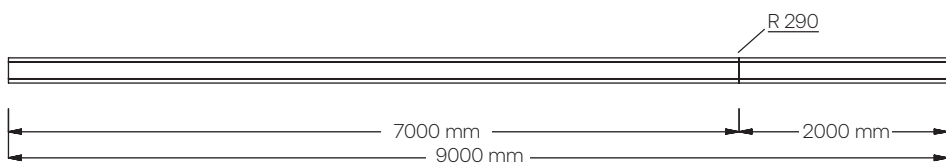
■ *P = point load, **L = line load



Beam span: 1 + 7 + 1 m = 9 m (eccentric extension)

Single load in centre of beam (kg)	314
Evenly distributed load (kg/m)	55
Deflection 1/200 (cm)	4.50

Single load in centre of beam (kg)	195
Evenly distributed load (kg/m)	35
Deflection 1/300 (cm)	3.00

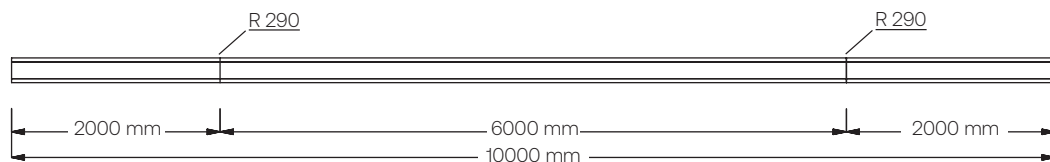


Beam span: 7 + 2 m = 9 m (eccentric extension)

Single load in centre of beam (kg)	314
Evenly distributed load (kg/m)	50
Deflection 1/200 (cm)	4.50 (P)* 4.50 - vorh. 4.06 (L)**

Single load in centre of beam (kg)	195
Evenly distributed load (kg/m)	35
Deflection 1/300 (cm)	3.00

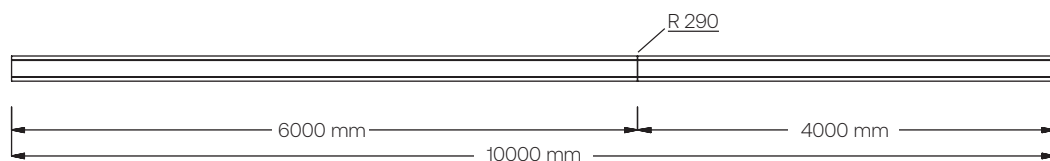
■ *P = point load, **L = line load



Beam span: 2 + 6 + 2 m = 10 m (eccentric extension)

Single load in centre of beam (kg)	241
Evenly distributed load (kg/m)	38
Deflection 1/200 (cm)	5.00

Single load in centre of beam (kg)	145
Evenly distributed load (kg/m)	23
Deflection 1/300 (cm)	3.33

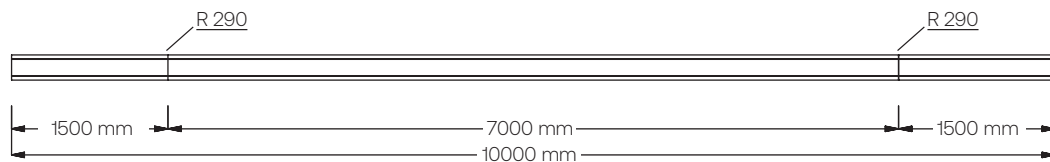


Beam span 6 + 4 m = 10 m (eccentric extension)

Single load in centre of beam (kg)	157
Evenly distributed load (kg/m)	25
Deflection 1/200 (cm)	5.00 - vorh. 3.54 (P)* 5.00 - vorh. 3.51 (L)**

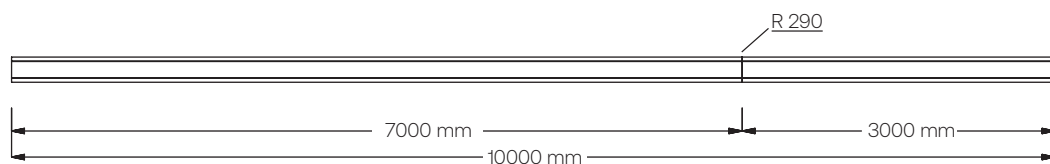
Single load in centre of beam (kg)	145
Evenly distributed load (kg/m)	23
Deflection 1/300 (cm)	3.33

■ *P = point load, **L = line load



Beam span: 1.5 + 7 + 1.5 m = 10 m (eccentric extension)

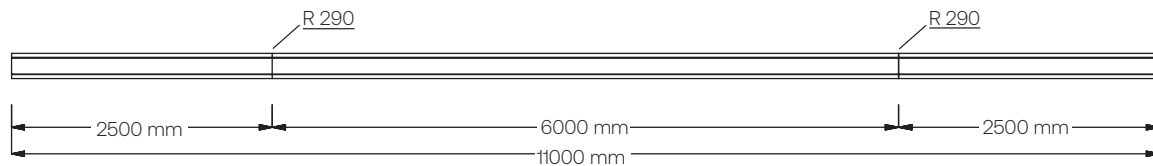
Single load in centre of beam (kg)	241	Single load in centre of beam (kg)	145
Evenly distributed load (kg/m)	38	Evenly distributed load (kg/m)	23
Deflection 1/200 (cm)	5.00	Deflection 1/300 (cm)	3.33



Beam span: 7 + 3 m = 10 m (eccentric extension)

Single load in centre of beam (kg)	219	Single load in centre of beam (kg)	145
Evenly distributed load (kg/m)	31	Evenly distributed load (kg/m)	23
Deflection 1/200 (cm)	5.00 - vorh. 4.61 (P)* 5.00 - vorh. 3.51 (L)**	Deflection 1/300 (cm)	3.33

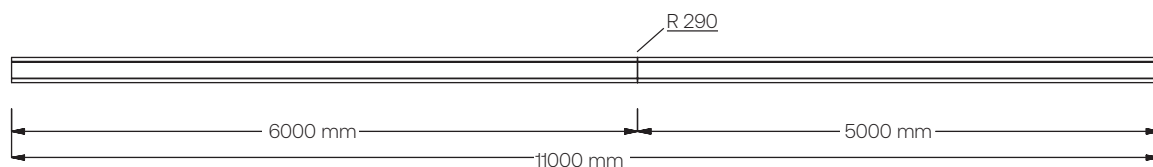
■ *P = point load, **L = line load



Beam span: 2.5 + 6 + 2.5 m = 11 m (eccentric extension)

Single load in centre of beam (kg)	187
Evenly distributed load (kg/m)	27
Deflection 1/200 (cm)	5.50

Single load in centre of beam (kg)	108
Evenly distributed load (kg/m)	15
Deflection 1/300 (cm)	3.67

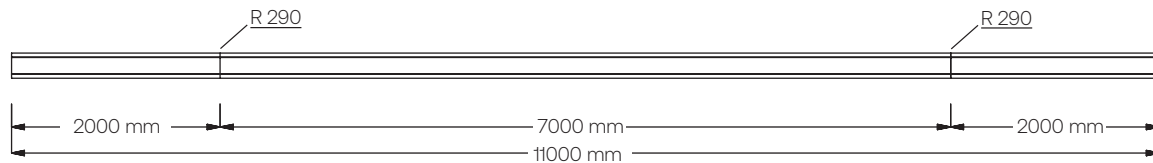


Beam span: 6 + 5 m = 11 m (eccentric extension)

Single load in centre of beam (kg)	118
Evenly distributed load (kg/m)	19
Deflection 1/200 (cm)	5.50 - vorh. 3.91 (P)* 5.50 - vorh. 4.20 (L)**

Single load in centre of beam (kg)	108
Evenly distributed load (kg/m)	15
Deflection 1/300 (cm)	3.67

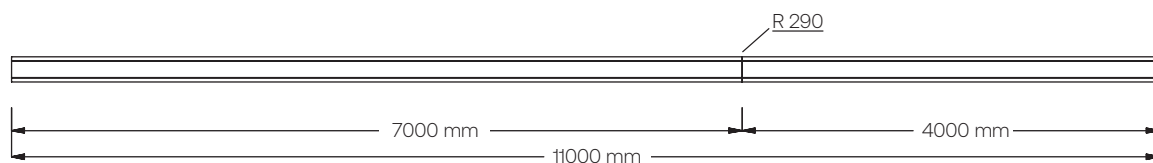
■ *P = point load, **L = line load



Beam span: 2 + 7 + 2 m = 11 m (eccentric extension)

Single load in centre of beam (kg)	187
Evenly distributed load (kg/m)	27
Deflection 1/200 (cm)	5.50

Single load in centre of beam (kg)	108
Evenly distributed load (kg/m)	15
Deflection 1/300 (cm)	3.67

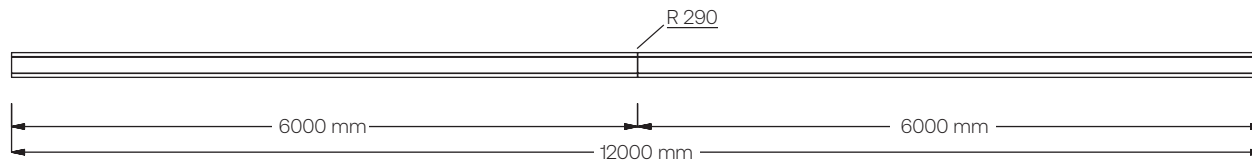


Beam span: 7 + 4 m = 11 m (eccentric extension)

Single load in centre of beam (kg)	150
Evenly distributed load (kg/m)	21
Deflection 1/200 (cm)	5.50 - vorh. 4.65 (P)* 5.50 - vorh. 4.51 (L)**

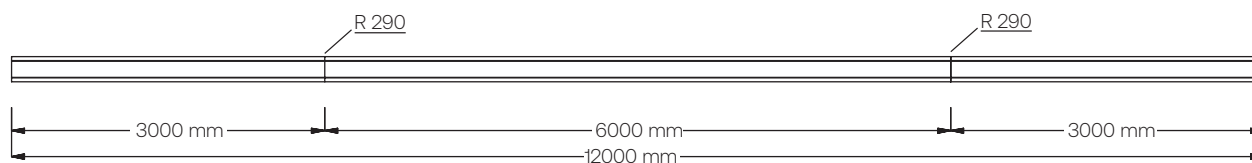
Single load in centre of beam (kg)	108
Evenly distributed load (kg/m)	15
Deflection 1/300 (cm)	3.67

■ *P = point load, **L = line load



Beam span 6 + 6 m = 12 m (central extension)

Single load in centre of beam (kg)	90	Single load in centre of beam (kg)	77
Evenly distributed load (kg/m)	15	Evenly distributed load (kg/m)	10
Deflection 1/200 (cm)	6.00 - vorh. 4.38 (P)* 6.00 - vorh. 5.04 (L)**	Deflection 1/300 (cm)	4.00



Beam span: 3 + 6 + 3 m = 12 m (eccentric extension)

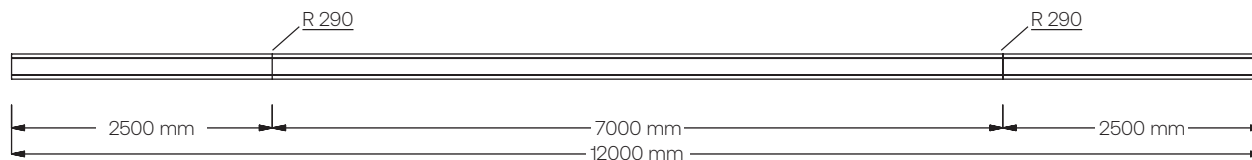
Single load in centre of beam (kg)	145	Single load in centre of beam (kg)	77
Evenly distributed load (kg/m)	19	Evenly distributed load (kg/m)	10
Deflection 1/200 (cm)	6.00	Deflection 1/300 (cm)	4.00

■ *P = point load, **L = line load

Load capacity data for rectangular extrusion R 102

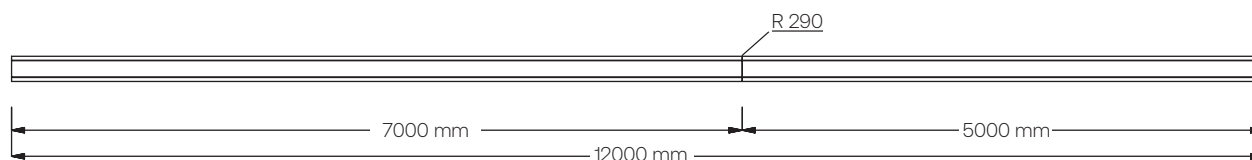
TI-R-A70.0D 11 / 11

technical information



Beam span: 2.5 + 7 + 2.5 m = 12m (eccentric extension)

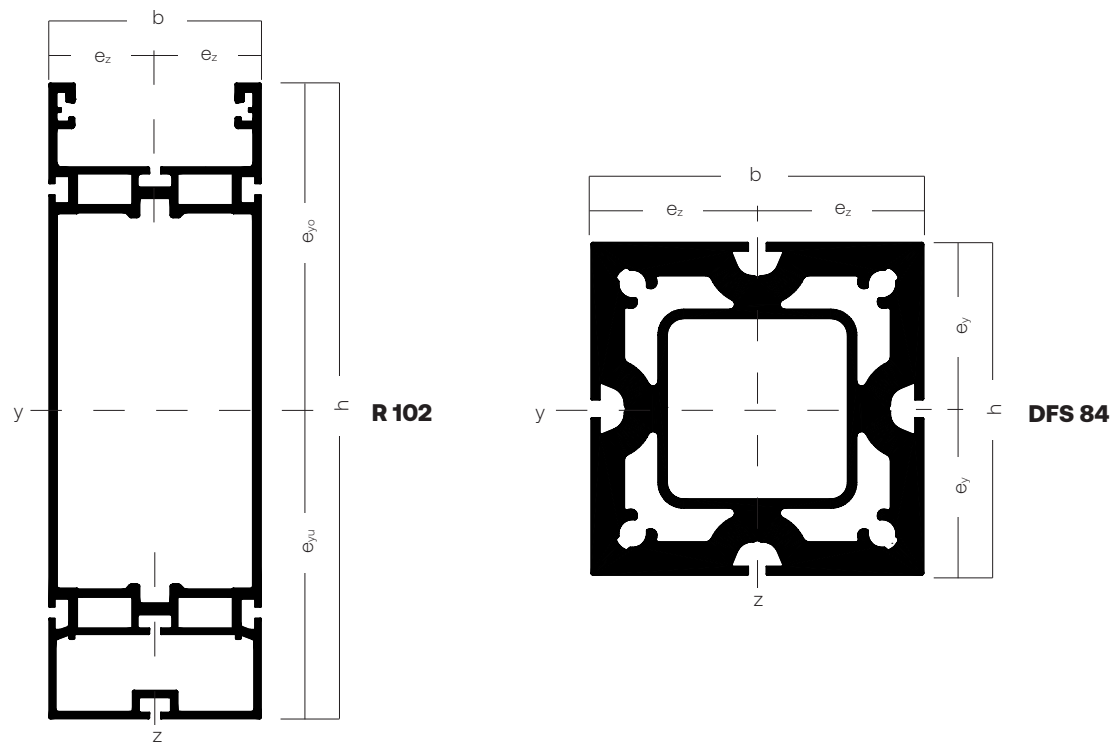
Single load in centre of beam (kg)	145	Single load in centre of beam (kg)	77
Evenly distributed load (kg/m)	19	Evenly distributed load (kg/m)	10
Deflection 1/200 (cm)	6.00	Deflection 1/300 (cm)	4.00



Beam span: 7 + 5 m = 12 m (eccentric extension)

Single load in centre of beam (kg)	110	Single load in centre of beam (kg)	77
Evenly distributed load (kg/m)	16	Evenly distributed load (kg/m)	10
Deflection 1/200 (cm)	6.00 - vorh. 4.97 (P)* 6.00 - vorh. 5.25 (L)**	Deflection 1/300 (cm)	4.00

i *P = point load, **L = line load



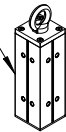
Material: aluminium EN AW-6060 T66 – specific weight: 2,70 g/cm³

Legend	
A	Querschnitt
G	Gewicht
J	Trägheitsmoment
W	Widerstandsmoment
i	Trägheitsradius

Extrusion	A	G	J _y	W _y	i _y	J _z	W _z	i _z
	e _y	e _z						
	cm ²	kg/m	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm
DFS 84	29.687	8.02	232.14	58.03	2.79	232.14	58.03	2.79
R 102	27.47	7.42	1724.50	151.36	7.92	270.17	67.54	3.14
				136.79				

Extrusion	Outer dimension		Centroidal axis	
	h	b	e _y	e _z
	mm	mm	mm	mm
DFS 84	80.00	80.00	40.00	40.00
R 102	240.00	80.00	o 126.1	o 40.0
			u 113.9	u 40.0

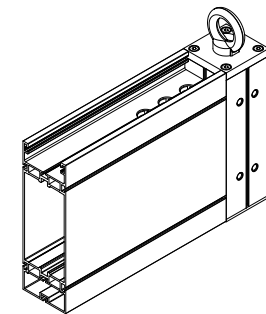
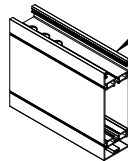
connector R 200

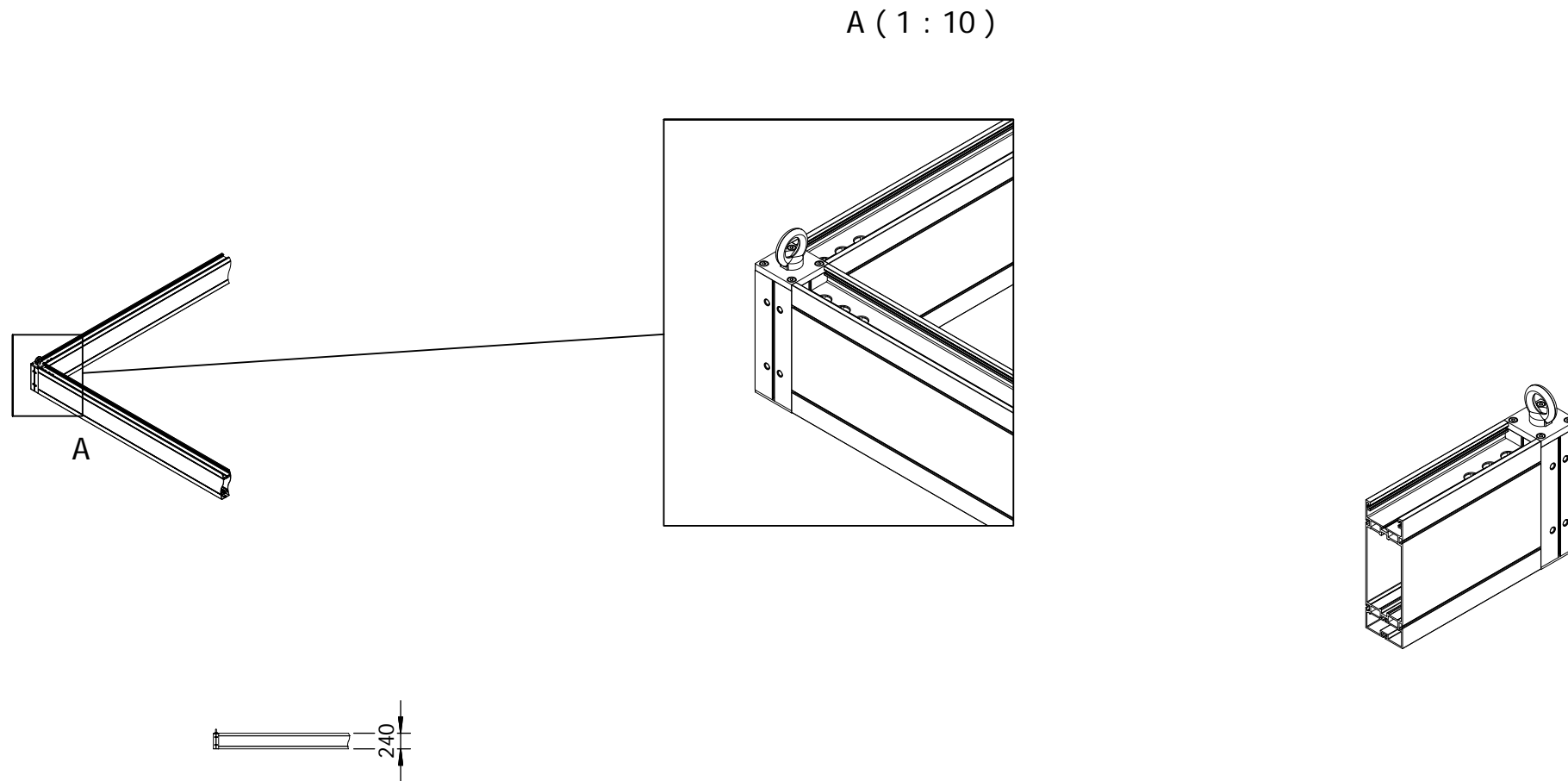


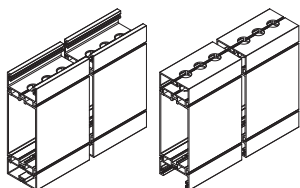
adaptor R 260



supporting beam R 102 with B 142 / B 143



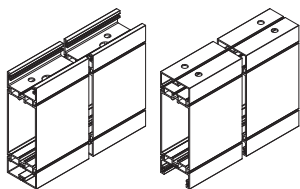
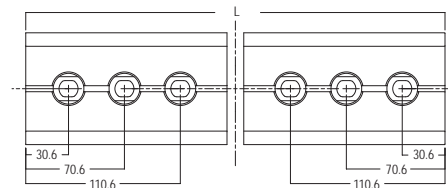




B 142

Processing of rectangular beam extrusion R 102
for use with adaptor connector R 260 and internal connector
straight R 290

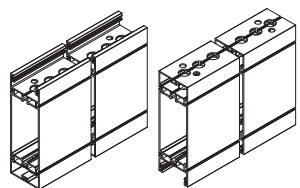
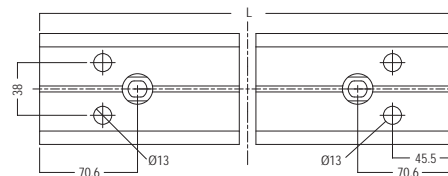
12 × stepped hole



B 147

Processing of rectangular beam extrusion R 102
for use with rectangular beam extrusion R 102

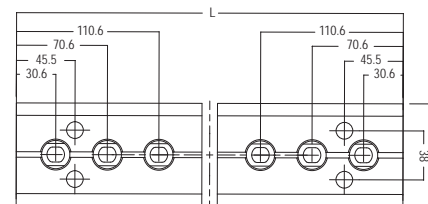
2 × stepped hole
8 × drilling Ø 13 mm



B 143

Processing of rectangular beam extrusion R 102
Step drilling for adaptor connector R 260,
internal connector R 290 / R 295
and drillings for tension lock Z 961/13

6 × step drilling on both sides
4 × drilling on both sides

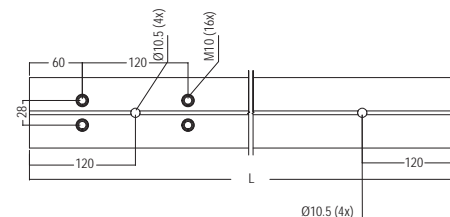




B 148

Processing of upright extrusion DFS 84
for use with upright extrusion DFS 84 as connector

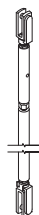
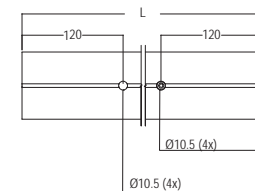
- 16 × thread M10,
- 4 × drilling Ø 10.5 mm,
- 8 × M8 threads in the core holes



B 149

Processing of upright extrusion DFS 84
for use with upright extrusion DFS 84 as connector

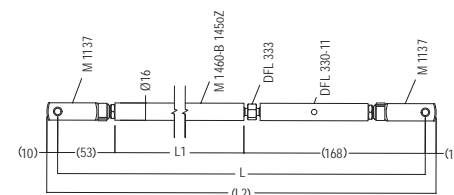
- 8 × drilling Ø 10.5 mm
- 8 × M8 threads in the core holes



B 145

Processing of rounde xtrusion M 1460
thread on both sides, mounting clamping screw,
clamping element, 2 × clevis

Calculation:
L (centre distance) - 221 mm = L1 (cut to size)





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