

OCTA RIG

STABLE CONSTRUCTION
WITH A SYSTEM

TECHNICS 01/19

CONTENT

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TECHNICS 01/19

CONTENT

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BASIC PARTS

OCTArig

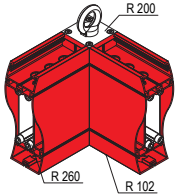
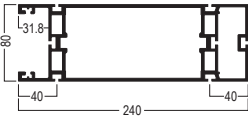
SUPPORTING BEAM

240 × 80 mm
6930 mm long



R 102.01

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



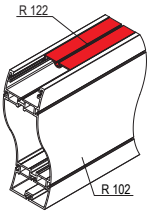
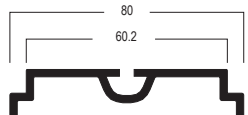
COVER EXTRUSION

for R 102
6930 mm long



R 122.01

aluminium
for use with supporting beam extrusion R 102
2.879 kg



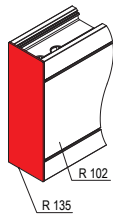
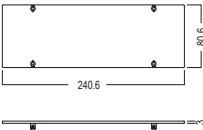
END PLATE

for R 102



R 135.21

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

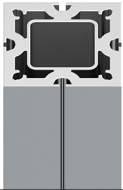


BASIC PARTS

OCTArig

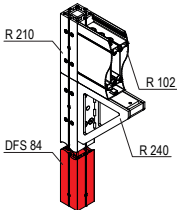
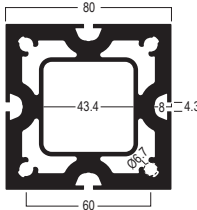
SQUARE EXTRUSION

as upright
5040 mm long



DFS 84.01

aluminium
for upright, upright extension and upright pylon extension, incl. 2 x clamping screw M12 to be used as supporting upright on the first floor or to extend DFS 2510 and DFS 2760 on the second floor, 5040 mm long
38.95 kg



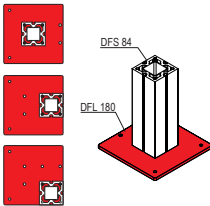
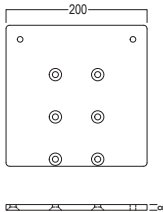
BASE PLATE

for DFS 84



DFL 180.37

steel
with 6 x drill hole for countersunk screws M8 for centre, edge or corner setup, incl. 4 x screw M8 x 25 DFL 180/20
2.529 kg



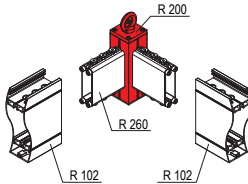
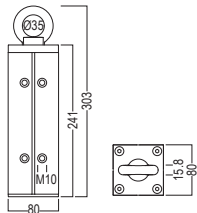
CONNECTOR

for R 260



R 200.01

aluminium/steel
to mount adaptor R255 / R 260 in case of suspension, incl. eyelet, with 16 x thread M10
2.92 kg



Attention: max. load capacity 500 kg

BASIC PARTS

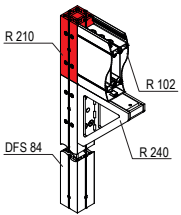
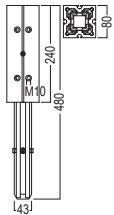
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CONNECTOR for R 206 / DFS 84



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 x thread M10
7.022 kg

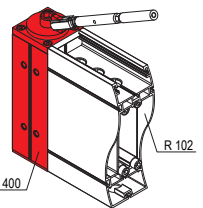
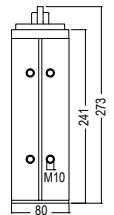


CONNECTOR for pylon construction



R 400.37

aluminium/steel
for pylon construction with tension brace junction knot R 408, to screw on adaptor R 260, incl. 16 x thread M10
1.979 kg

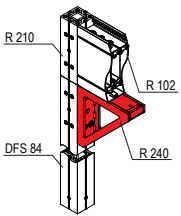
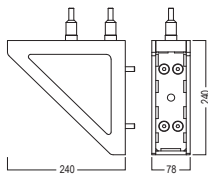


REINFORCEMENT for R 260 / DFS 84



R 240.21

steel
for reinforcement of elevated OCTArig designs, two-piece, incl. 4 x contersunk screw DFL 340/5S(M8), 2 x contersunk screw R 240/20 (M8), 2 x contersunk screw R 240/21 (M8)
6.148 kg



Attention: R 260 required for assembly of upright DFS 84 with R 102 and R 102

BASIC PARTS

OCTArig

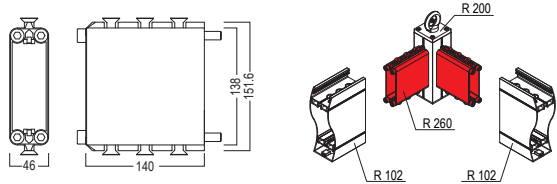
CONNECTOR PART for DFS 84 / R 102 140 mm long



R 260.01

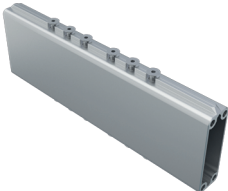
aluminium

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)
1.15 kg



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

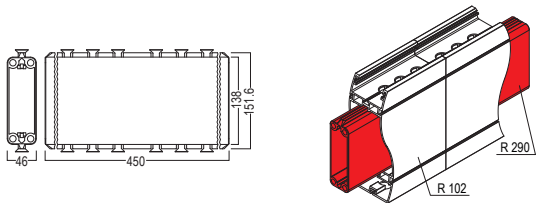
INTERNAL CONNECTOR straight 450 mm long



R 290.01

aluminium

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



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

ACCESSORIES

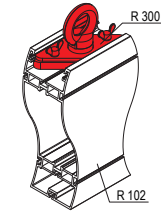
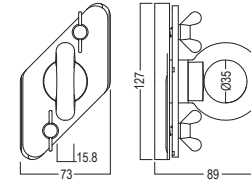
OCTArig

FIXING SET with eyelet



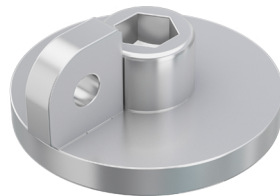
R 300.37

steel
to turn into supporting beam extrusion R 102, for rope suspension
1.055 kg



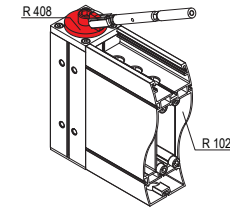
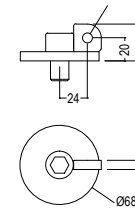
Attention: max. load capacity 300 kg

TENSION BRACE JUNCTION KNOT for R 200



R 408.37

steel
for modification of connector R 200, incl. cylinder screw R 408-20 (M16)
0.317 kg

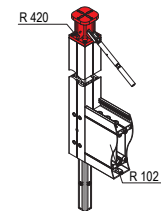
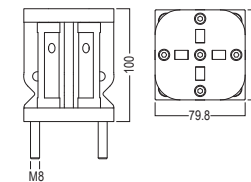


TENSION BRACE JUNCTION KNOT for DFS 84



R 420.37

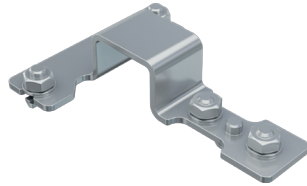
steel
to mount to upright pylon extension DFS 84, incl. 4 × cylinder screw R 200-20 (M8)



ACCESSORIES

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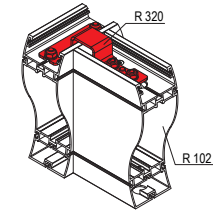
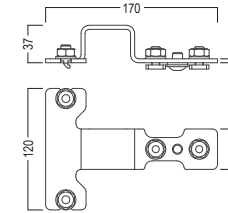
BEAM RETAINER for R 102



R 320.37

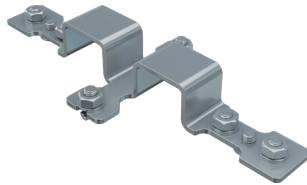
steel

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)
0.46 kg



Attention: necessary for safety reasons

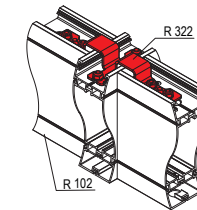
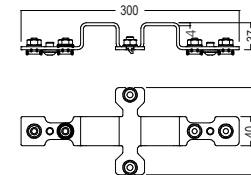
BEAM RETAINER for R 102



R 322.37

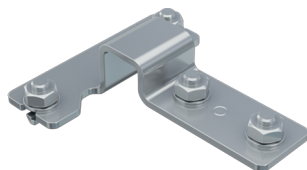
steel

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)
0.9 kg



Attention: necessary for safety reasons

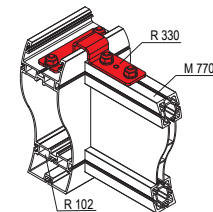
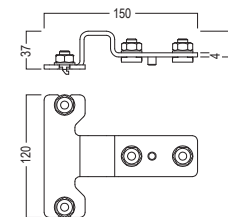
BEAM RETAINER for M 770



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)
0.43 kg



Attention: necessary for safety reasons

ACCESSORIES

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HINGED END PLATE

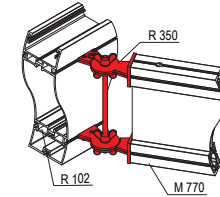
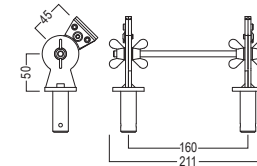
set
for M 770



R 350.21

steel

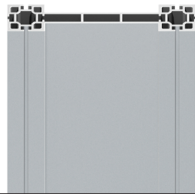
for connection of supporting beam M 770 to supporting beam R 102 at variable angles, consisting of 2 x hinged flange plate M 1557 and 1 x wing nut set R 350/FS
1.913 kg



Attention: max. load capacity 100 kg

SUPPORTING BEAM

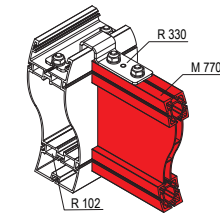
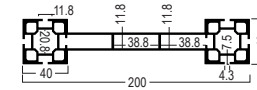
200 x 40 mm
7000 mm long



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 Z 161/A
35.533 kg



END CAP

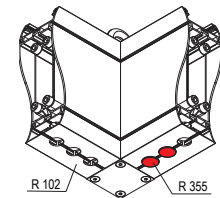
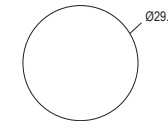
for 24 mm dia.



R 355.35

plastic

to cover drill holes with Ø 24 mm



ACCESSORIES

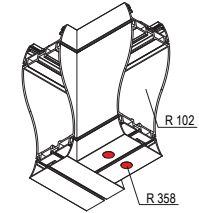
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END CAP
for 13 mm dia.



R 358.35

plastic
to cover drill holes with \varnothing 13 mm

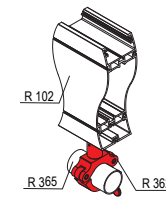
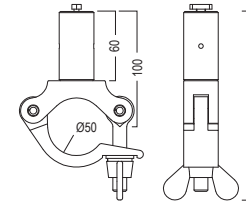


FIXING SET
for R 365



R 362.00

aluminium/steel
to slide into the 4.3 mm system groove from the side, incl.
1 x hammerhead screw E 265 and mount for round tube \varnothing
50 mm
0.7 kg



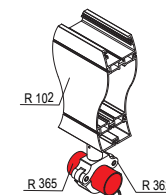
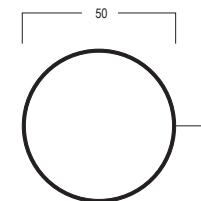
Attention: max. load
capacity 100 kg

ROUND EXTRUSION
50 mm dia
6000 mm long



R 365.00

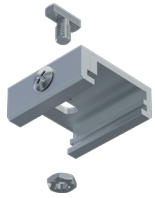
aluminium
50 mm dia
5.06 kg



ACCESSORIES

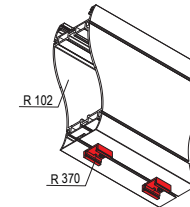
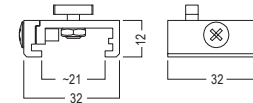
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CLIP for power rails



R 370.21

aluminium
for mounting power rails to 4.3 mm system groove, with clamping screw M4 and fixing accessories M5 (SW 8 mm)
0.02 kg

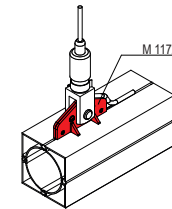
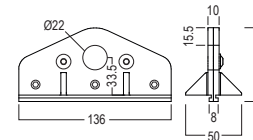


CONNECTOR PART for rope suspension



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)
0.531 kg



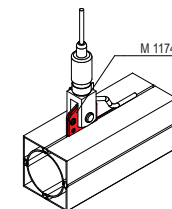
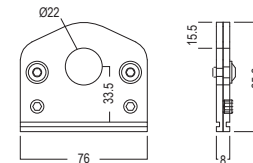
Attention: max. load capacity 150 kg

CONNECTOR PART 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)
0.255 kg



Attention: max. load capacity 100 kg

TENSION FABRIC EXTRUSIONS

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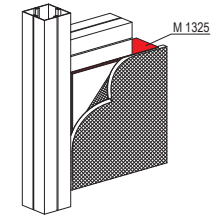
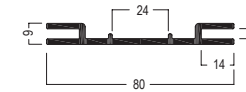
FABRIC TENSION EXTRUSION

80 mm
6000 mm long



M 1325.01

aluminium
for single- or double-sided fabric (in combination with silicone edge M 1313), with 13 holes 18 mm dia. for mounting in system groove with M 1345
5.33 kg



1 in connection M 1345

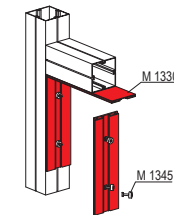
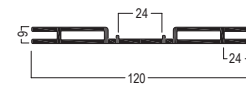
FABRIC TENSION EXTRUSION

120 mm
6000 mm long



M 1330.01

aluminium
for single- or double-sided fabric (in combination with silicone edge M 1313), with 13 holes 18 mm dia. for mounting in system groove with M 1345
8.28 kg



1 in connection with M 1345

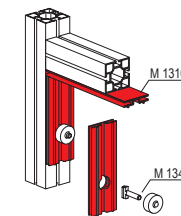
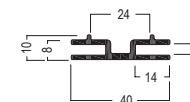
FABRIC TENSION EXTRUSION

40 mm
6000 mm long



M 1310.01

aluminium
for single- or double-sided fabric (in combination with silicone edge M 1313), with 13 holes 18 mm dia. for mounting in system groove with M 1345
2.694 kg



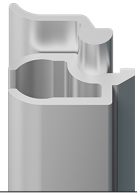
1 in connection with M 1345

TENSION FABRIC EXTRUSIONS

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FABRIC TENSION EXTRUSION

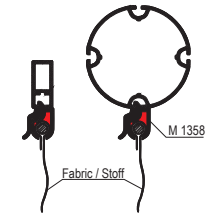
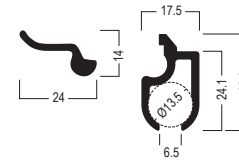
5000 mm long



M 1358.01

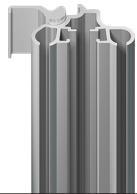
aluminium

incl. 6 locking clips M 1358/1 for suspension of graphics on round tube 8 - 12 mm dia.
2.264 kg



FABRIC SUSPENSION EXTRUSION

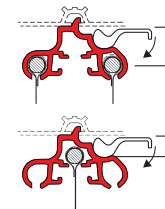
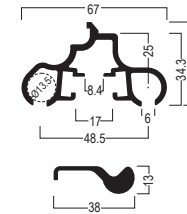
5000 mm long



M 1360.01

aluminium

incl. 6 locking clips M 1360/1, 40 mm long for suspension of graphics on 1 side, both sides or in the middle; middle can also be used for 8 mm glass panels or 16 mm wooden panels for suspension of graphics on round tube 8 - 12 mm dia.
6.77 kg



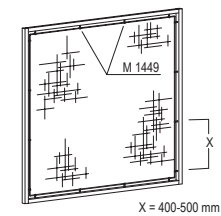
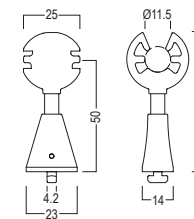
FABRIC SUSPENSION EXTRUSION



M 1449.35

plastic

without tension spring for system groove 4.3 mm easy hand mounting (90° rotation)
0.011 kg

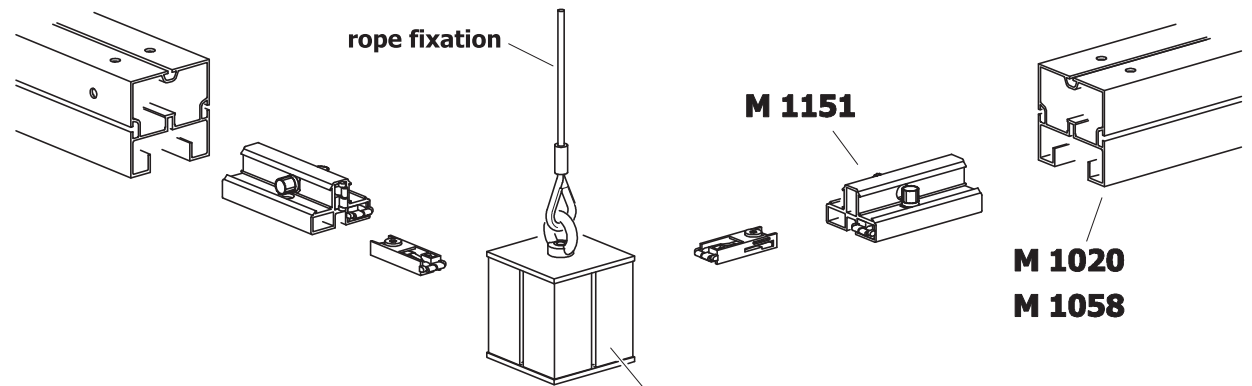
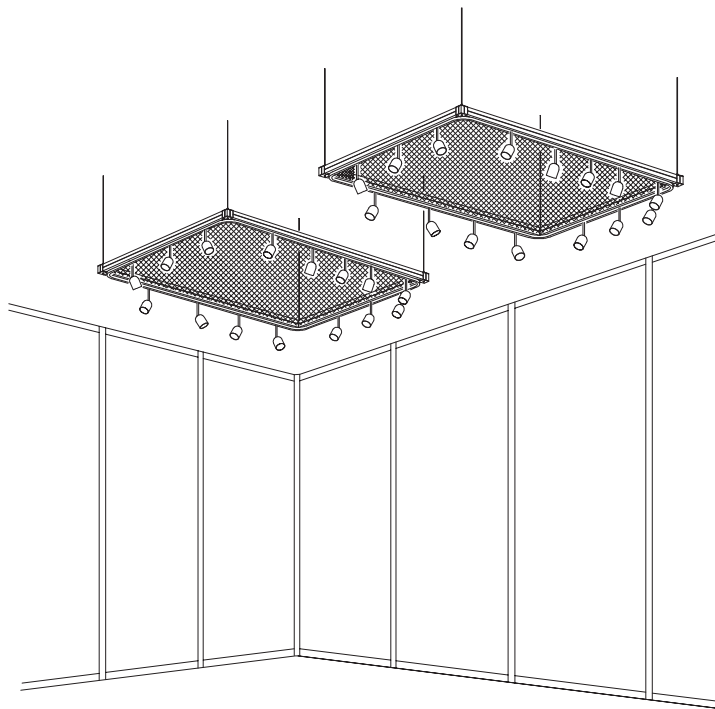


TECHNICAL INFORMATION

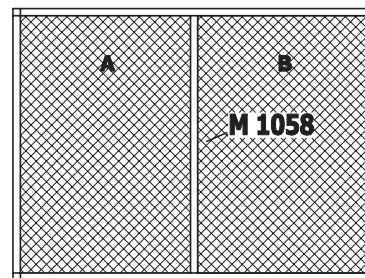
TI-M-59.1	18
Ceiling elements with fabric covering "solution for frame construction"	
TI-R-A00	19
OCTArig Upright & Supporting Beam Type A	
TI-R-A01	20
OCTArig Upright Extension & Supporting Beam Type A	
TI-R-A09	21
OCTArig Upright & Supporting Beam Type A	
TI-R-A10	22
OCTArig Upright & Supporting Beam Type B	
TIR-A11	23
OCTArig Upright Extension & Supporting Beam Type B	
TI-R-A19	24
OCTArig Upright & Supporting Beam Type B	
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OCTArig Upright & Supporting Beam Type C	
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TI-R-A29	27
OCTArig Upright & Supporting Beam Type C	
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Load capacity data for rectangular extrusion R 102	

TECHNICAL INFORMATION

TIR-A80.0D	39
Cross section values for upright extrusion DFS 84 and rectangular extrusion R 102	
TI-R-A90	40
OCTArig Connector & Supporting Beam Type V	
TI-R-A99	41
OCTArig Connector & Supporting Beam Type V	

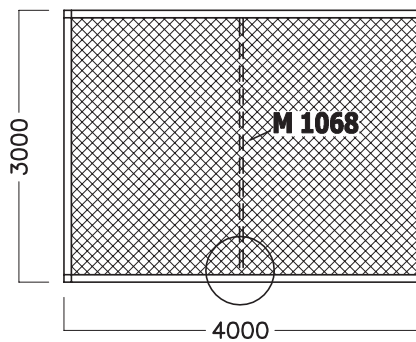


version 1



M 1058

version 2



80

connecting clamp E 262

M 1068 (40 mm long)

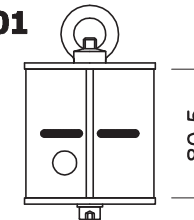
bracing extrusion M 1068

M 1310

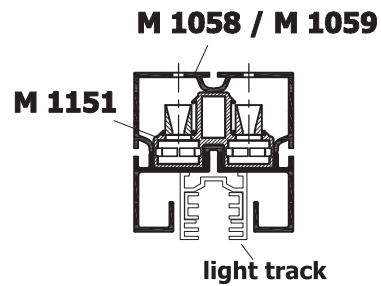
fabric

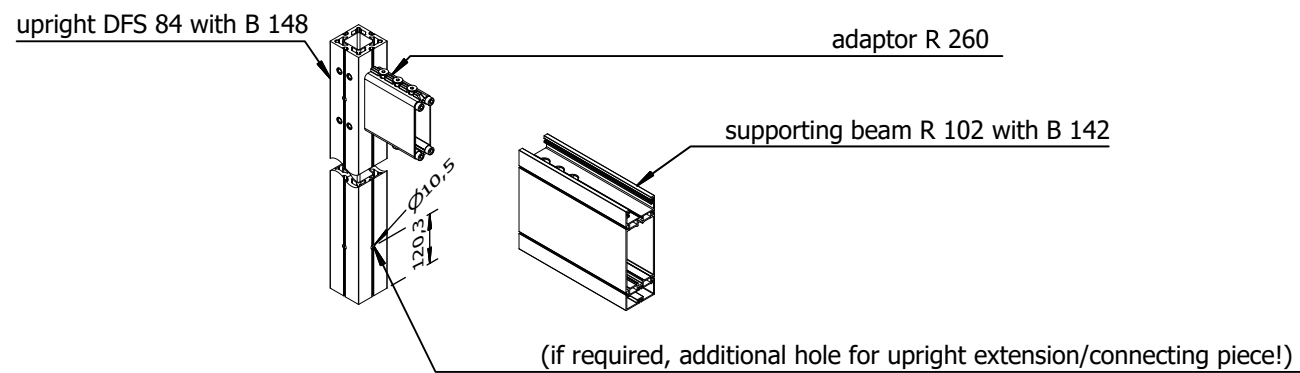
M 1058

M 1345

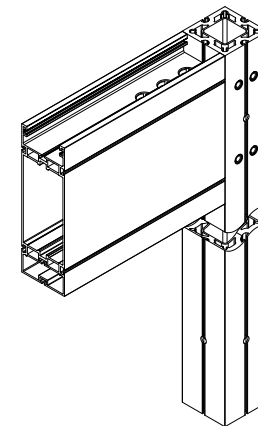


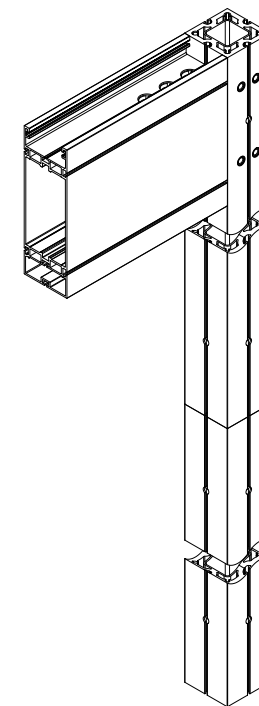
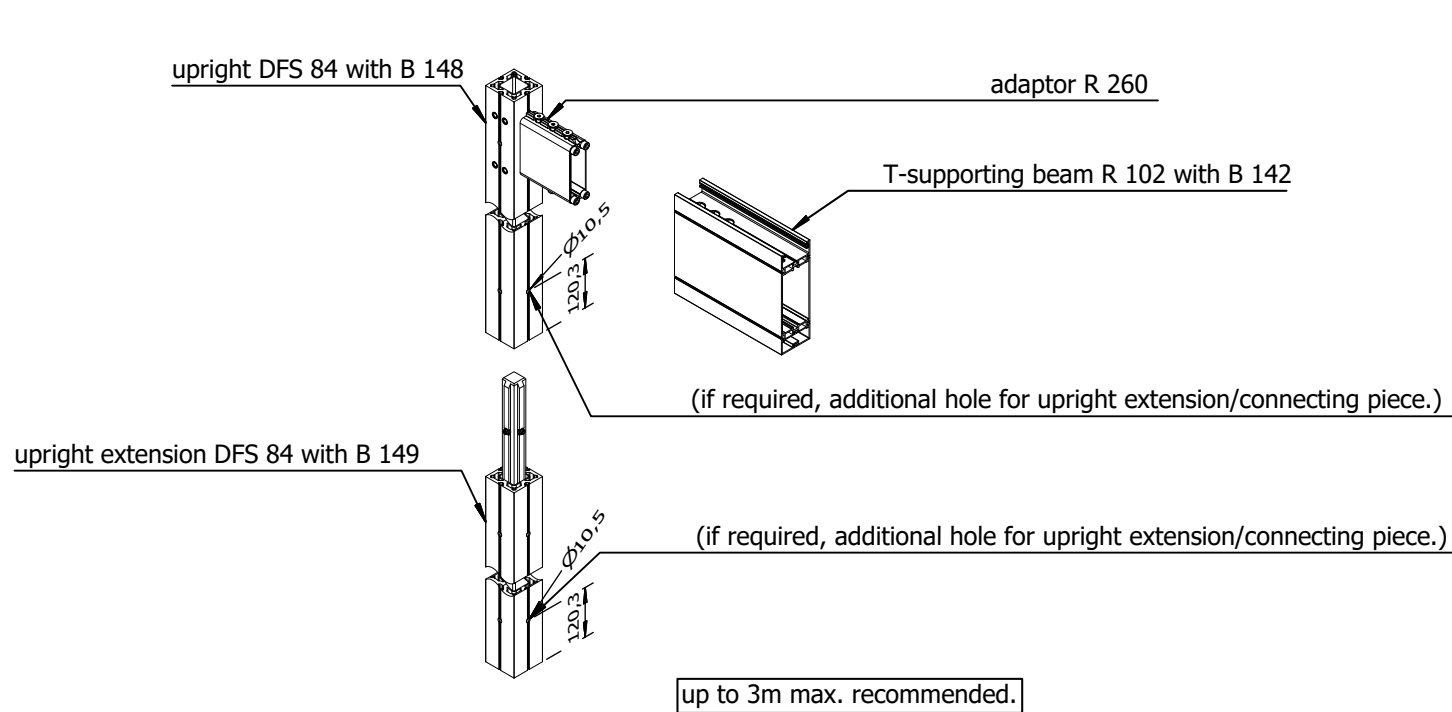
M 1401



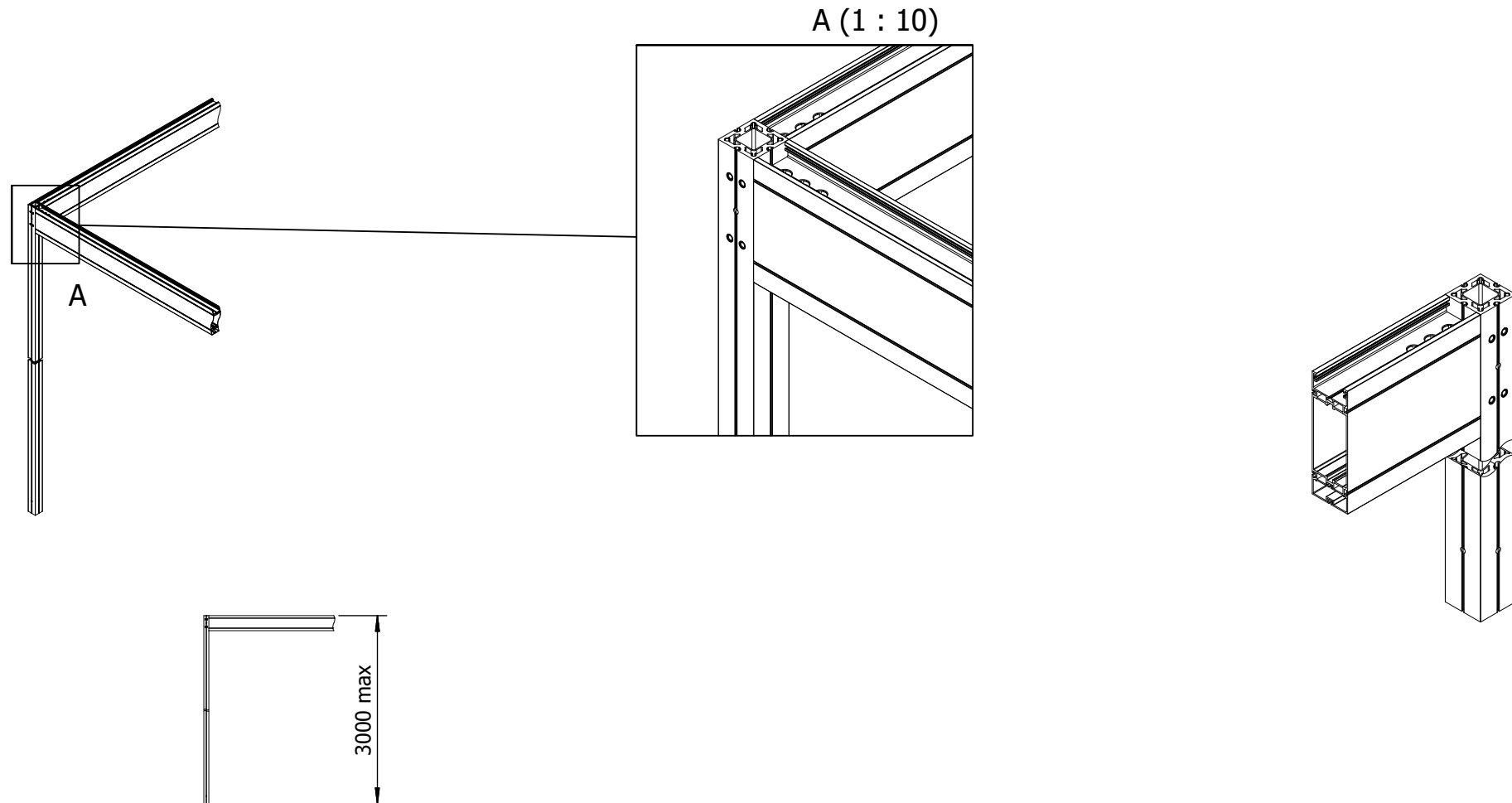


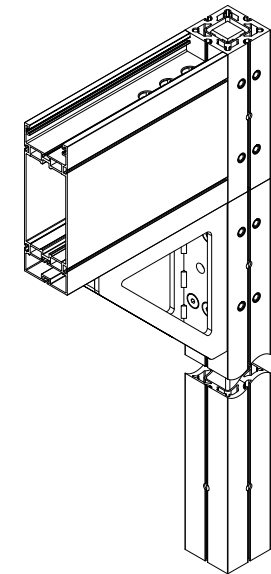
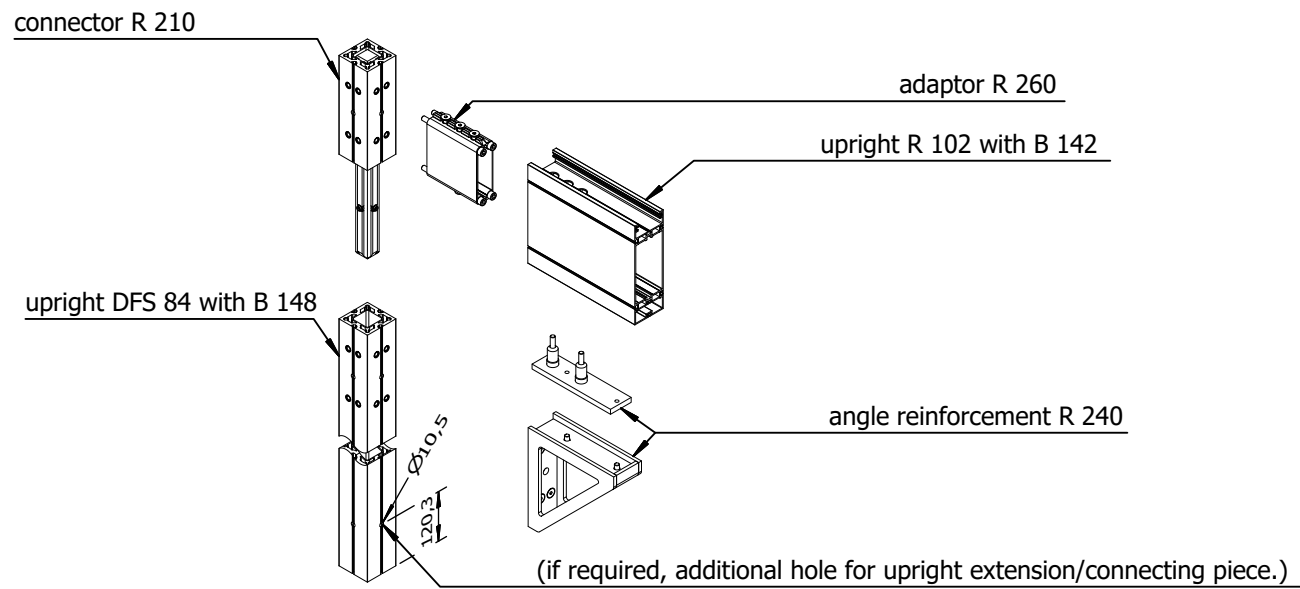
up to 3m max. recommended.

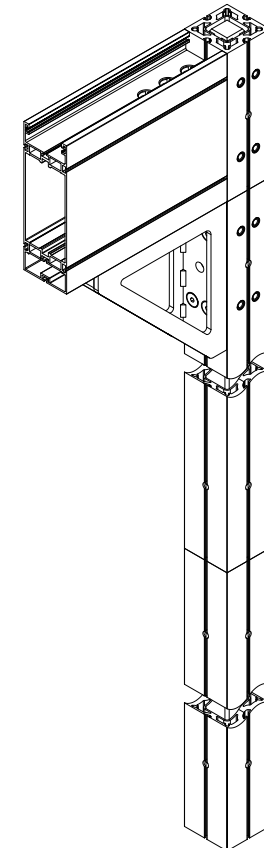
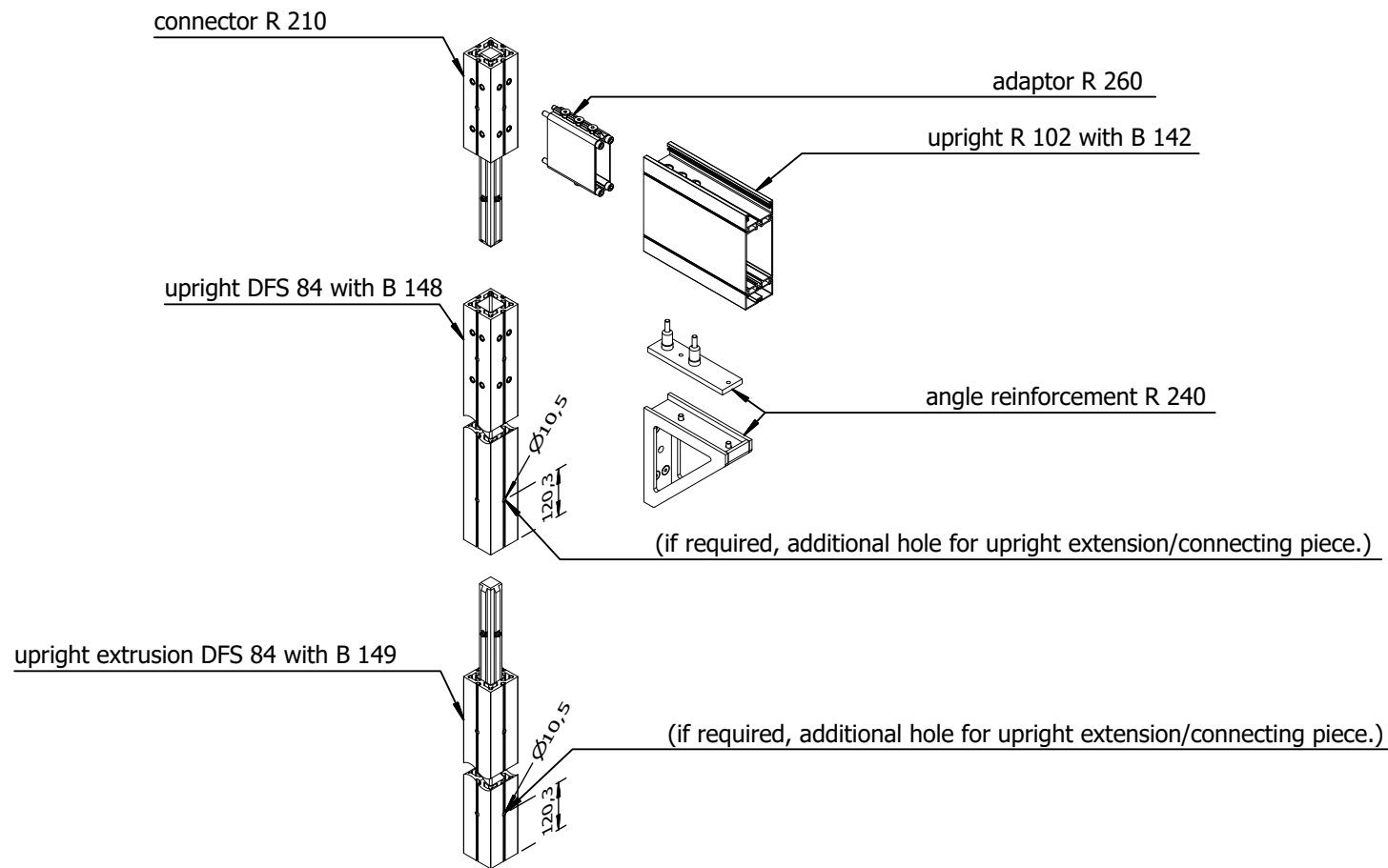




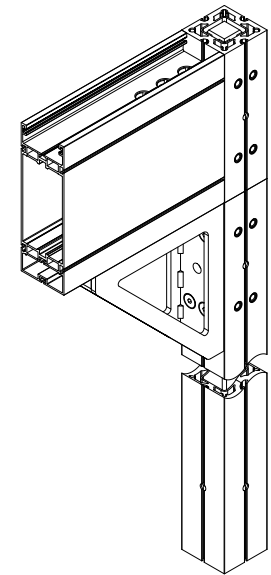
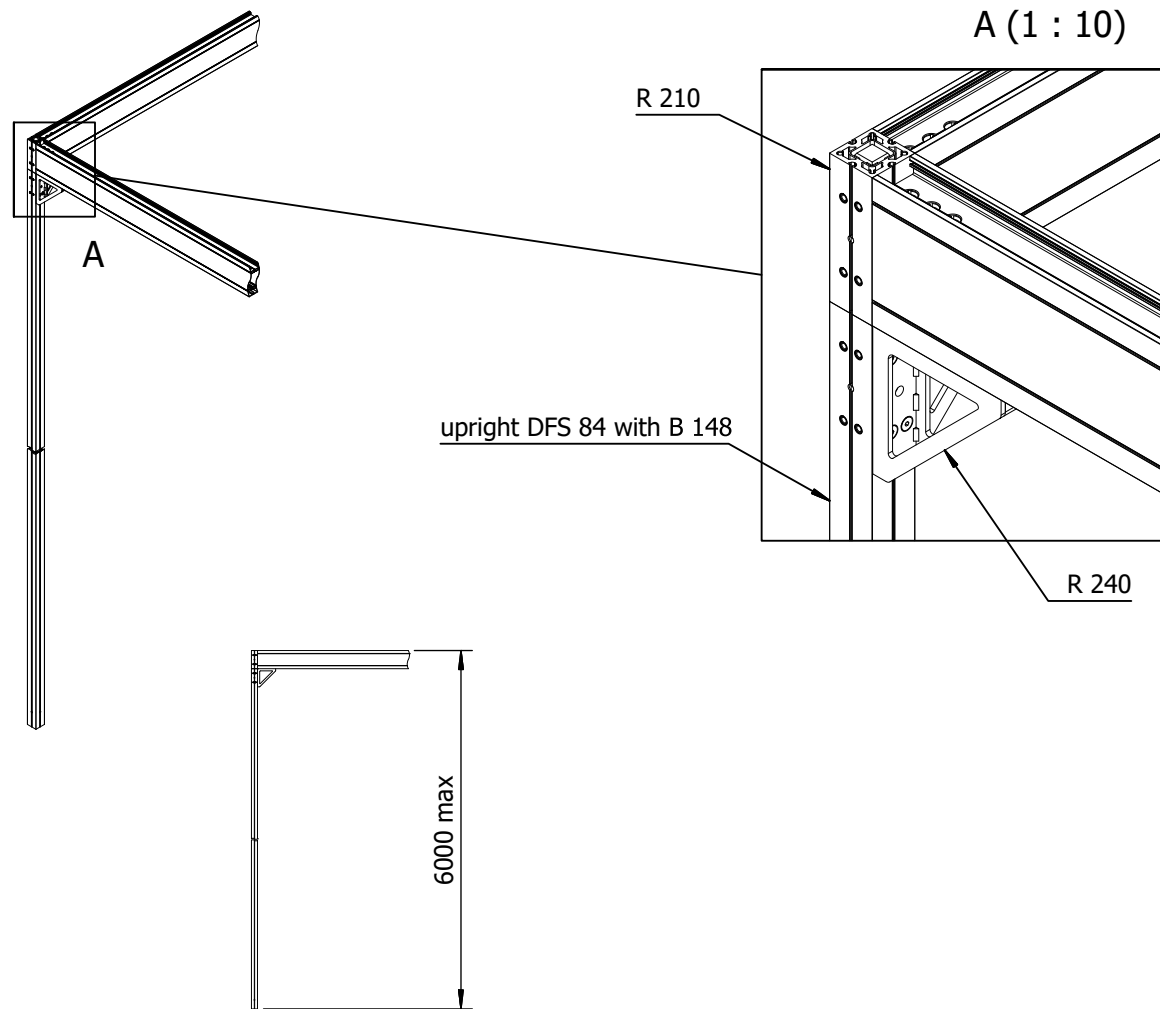
TI-R-A01 E-000533-5000A-T01 A Freigegeben 26.10.2017 ED

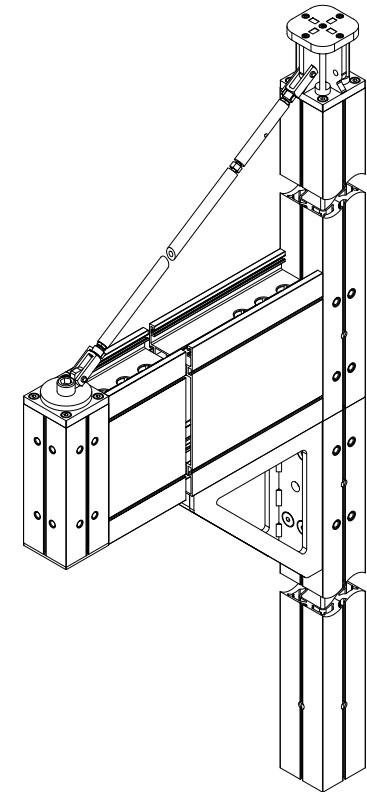
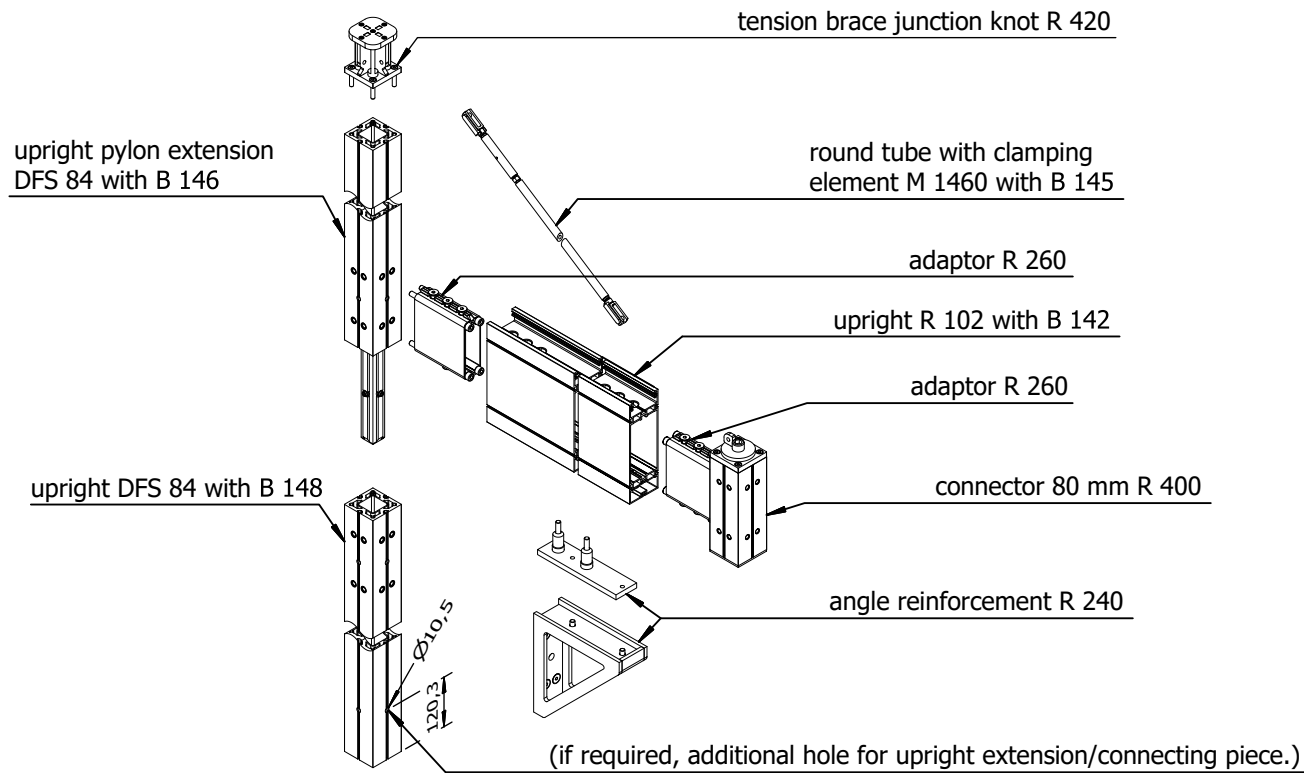




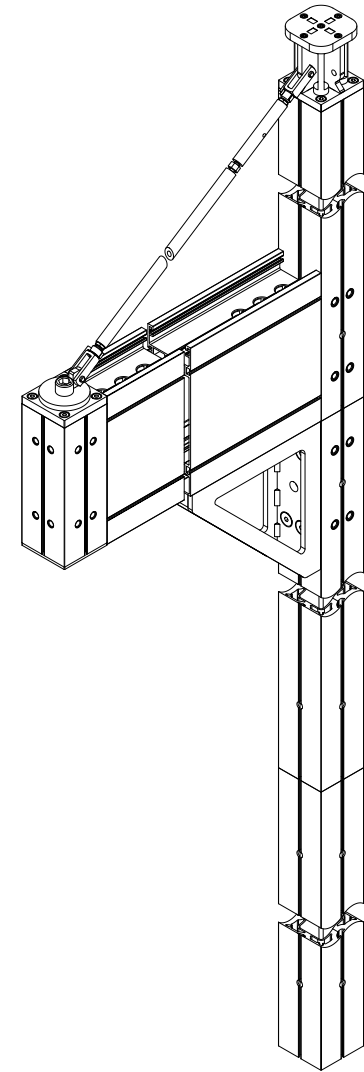
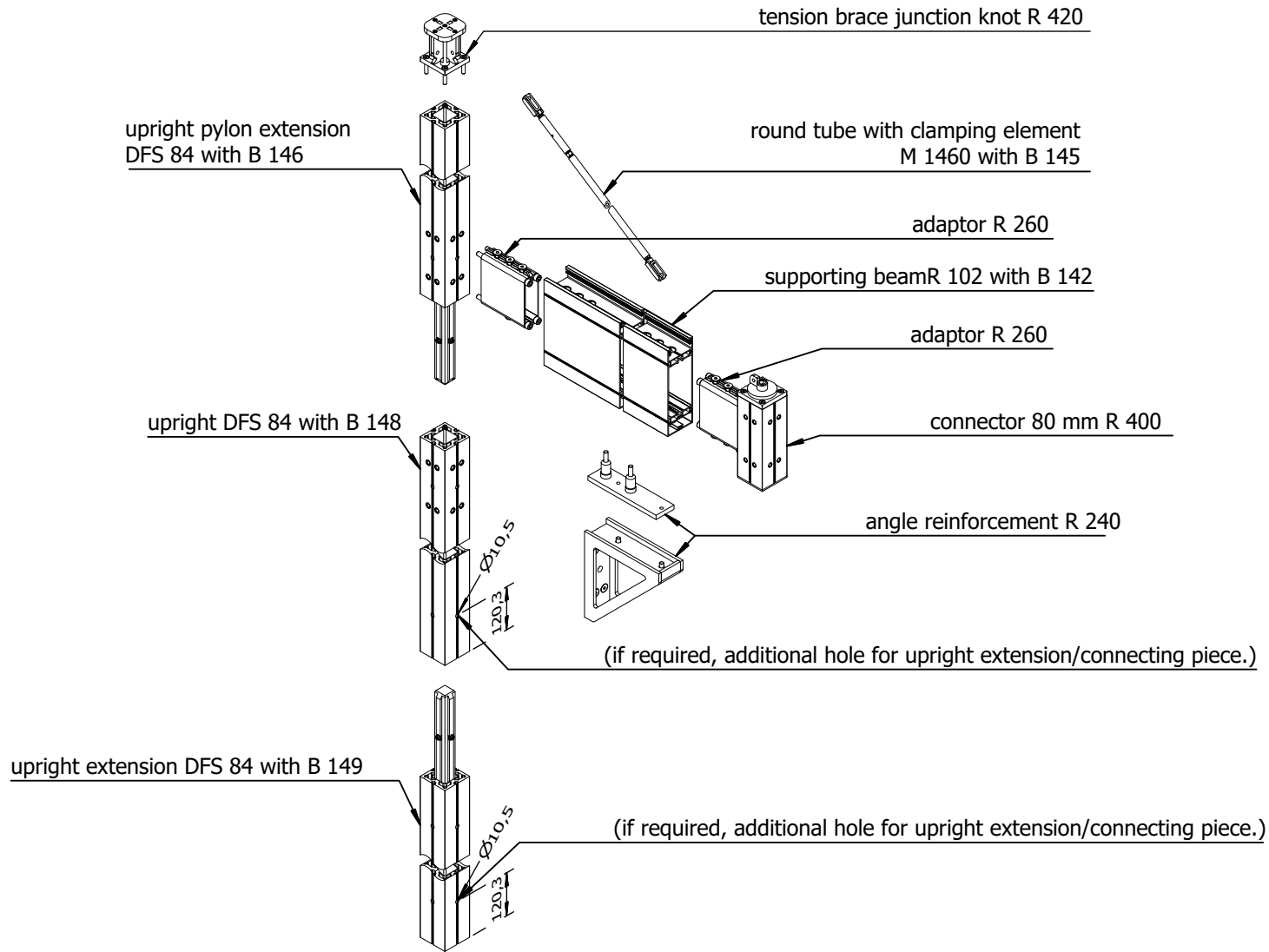


TIR-A11 E-000533-5000A-T11 A Freigegeben 26.10.2017 ED

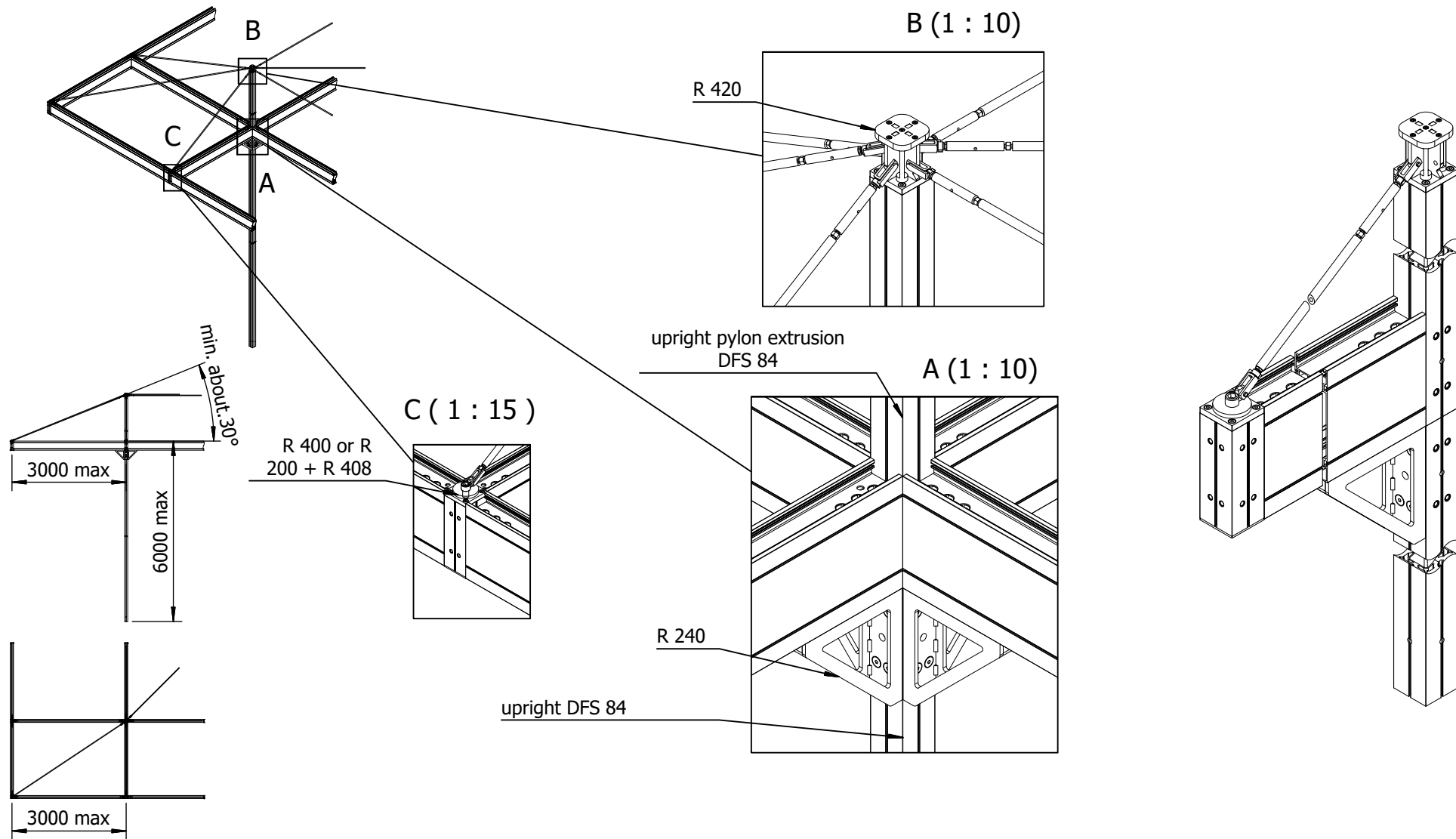




TI-R-A20 E-000533-5000A-T20 A Freigegeben 26.10.2017 ED



TI-R-A21 E-000533-5000A-T21 A Freigegeben 26.10.2017 ED



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

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

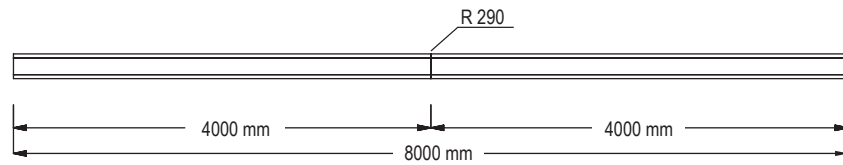
The following examples show how the possible load capacity increases in equally long constructions with hinged single span beams the closer the extension is in the edge area.

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

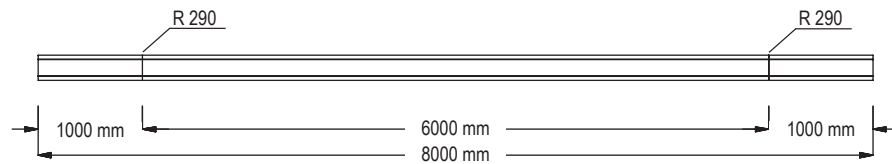
TIR-A70.0D



BEAM SPAN: 4 + 4 M = 8 M (CENTRAL EXTENSION)

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

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

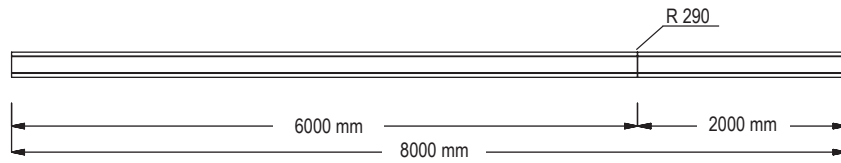


BEAM SPAN: 1 + 6 + 1 M = 8 M (ECCENTRIC EXTENSION)

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

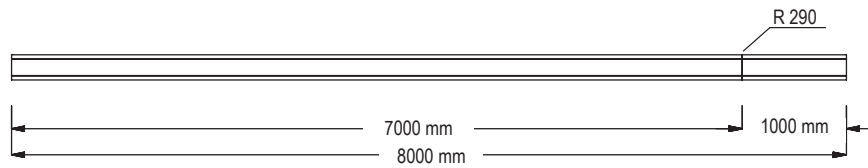
Single load in centre of beam (kg)	260
Evenly distributed load (kg/m)	52
Deflection 1/300 (cm)	2.67

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



BEAM SPAN: 6 + 2 M = 8 M (ECCENTRIC EXTENSION)

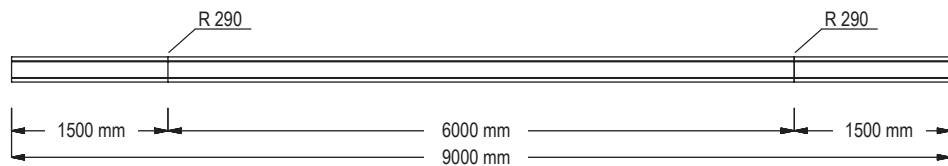
Single load in centre of beam (kg)	360	Single load in centre of beam (kg)	262
Evenly distributed load (kg/m)	60	Evenly distributed load (kg/m)	52
Deflection 1/200 (cm)	4.00 - vorh. 3.54 (P)* 4.00 - vorh. 2.99 (L)**	Deflection 1/300 (cm)	2.67



BEAM SPAN: 7 + 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

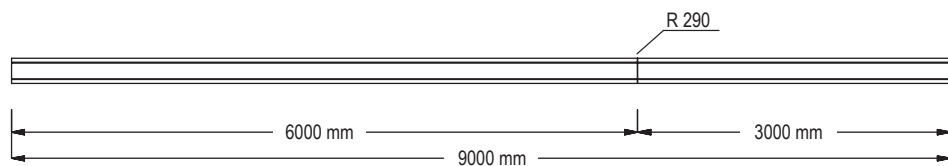
i *P = point load, **L = line load



BEAM SPAN: 1.5 + 6 + 1.5 M = 9 M (ECCENTRIC EXTENSION)

Single load in centre of beam (kg)	314
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

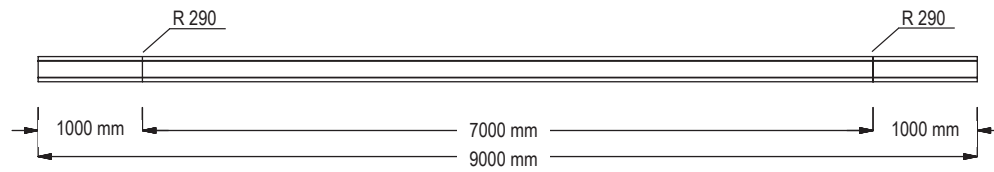


BEAM SPAN: 6 + 3 M = 9 M (ECCENTRIC EXTENSION)

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

Single load in centre of beam (kg)	195
Evenly distributed load (kg/m)	34
Deflection 1/300 (cm)	3.00

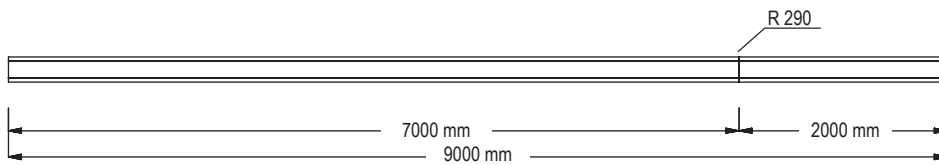
*P = point load, **L = line load



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



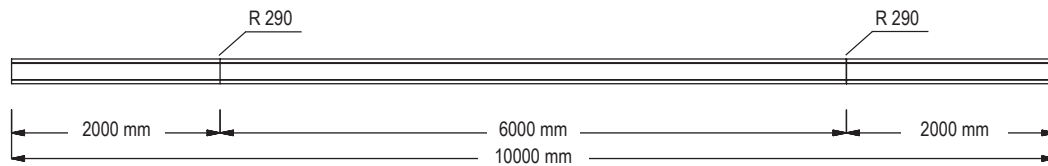
BEAM SPAN: 7 + 2 M = 9 M (ECCENTRIC EXTENSION)

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

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

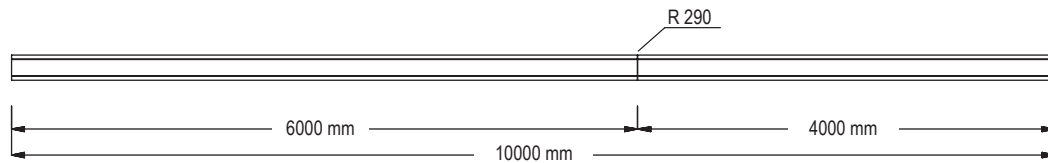
TIR-A70.0D



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)**

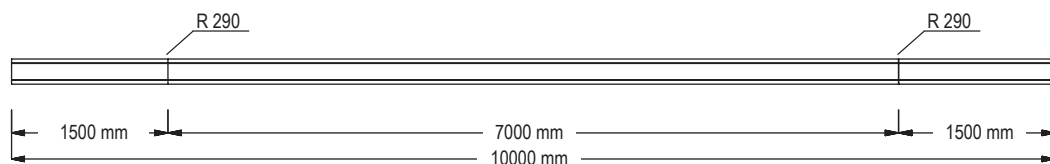
Single load in centre of beam (kg)	145
Evenly distributed load (kg/m)	23
Deflection 1/300 (cm)	3.33

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

LOAD CAPACITY DATA FOR RECTANGULAR EXTRUSION R 102

TIR-A70.0D 7 / 11

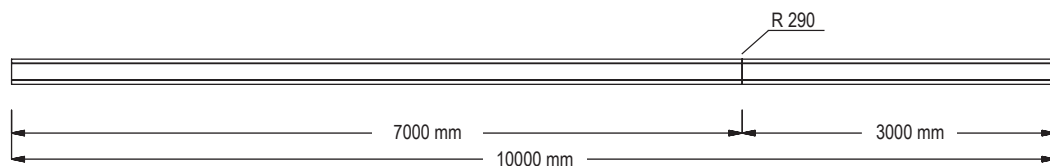
TECHNICAL INFORMATION



BEAM SPAN: 1.5 + 7 + 1.5 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



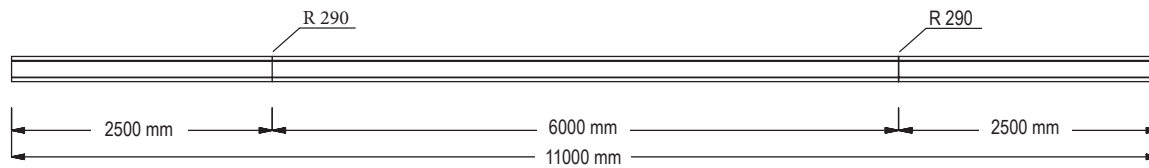
BEAM SPAN: 7 + 3 M = 10 M (ECCENTRIC EXTENSION)

Single load in centre of beam (kg)	219
Evenly distributed load (kg/m)	31
Deflection 1/200 (cm)	5.00 - vorh. 4.61 (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

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

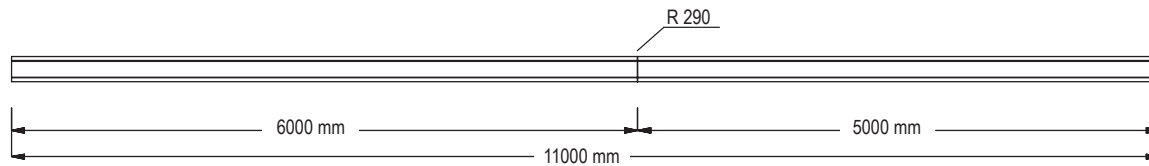
TIR-A70.0D



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



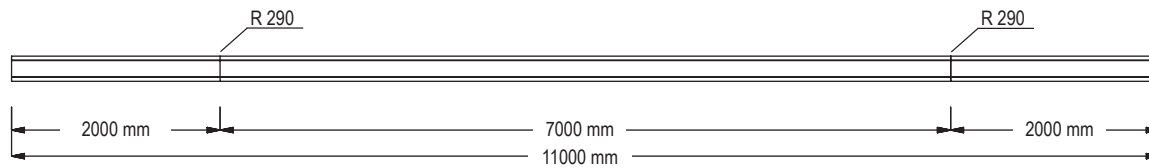
BEAM SPAN: 6 + 5 M = 11 M (ECCENTRIC EXTENSION)

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

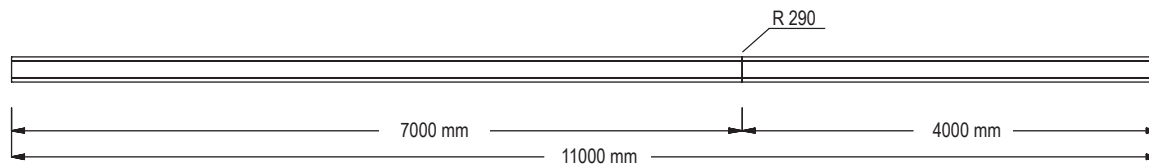
TIR-A70.0D



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



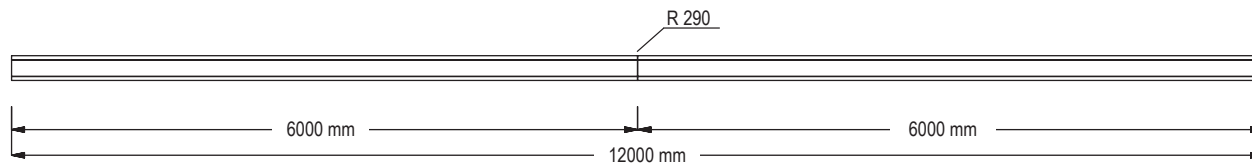
BEAM SPAN: 7 + 4 M = 11 M (ECCENTRIC EXTENSION)

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

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

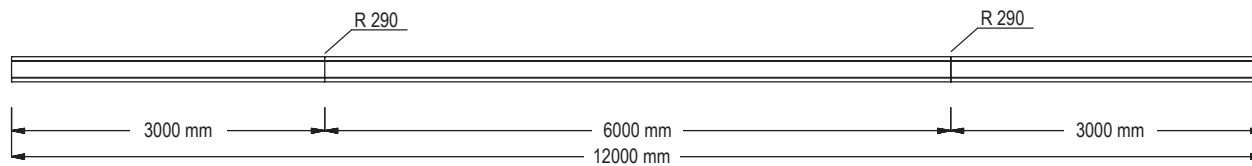
TIR-A70.0D



BEAM SPAN: 6 + 6 M = 12 M (CENTRAL EXTENSION)

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

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

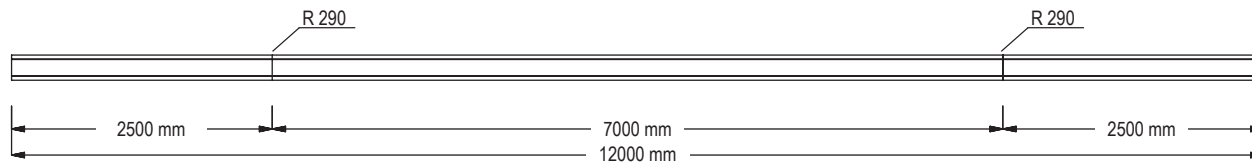


BEAM SPAN: 3 + 6 + 3 M = 12 M (ECCENTRIC EXTENSION)

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

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

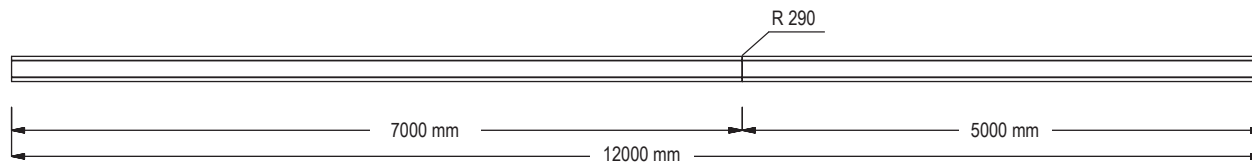
i *P = point load, **L = line load



BEAM SPAN: 2.5 + 7 + 2.5 M = 12 M (ECCENTRIC EXTENSION)

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

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

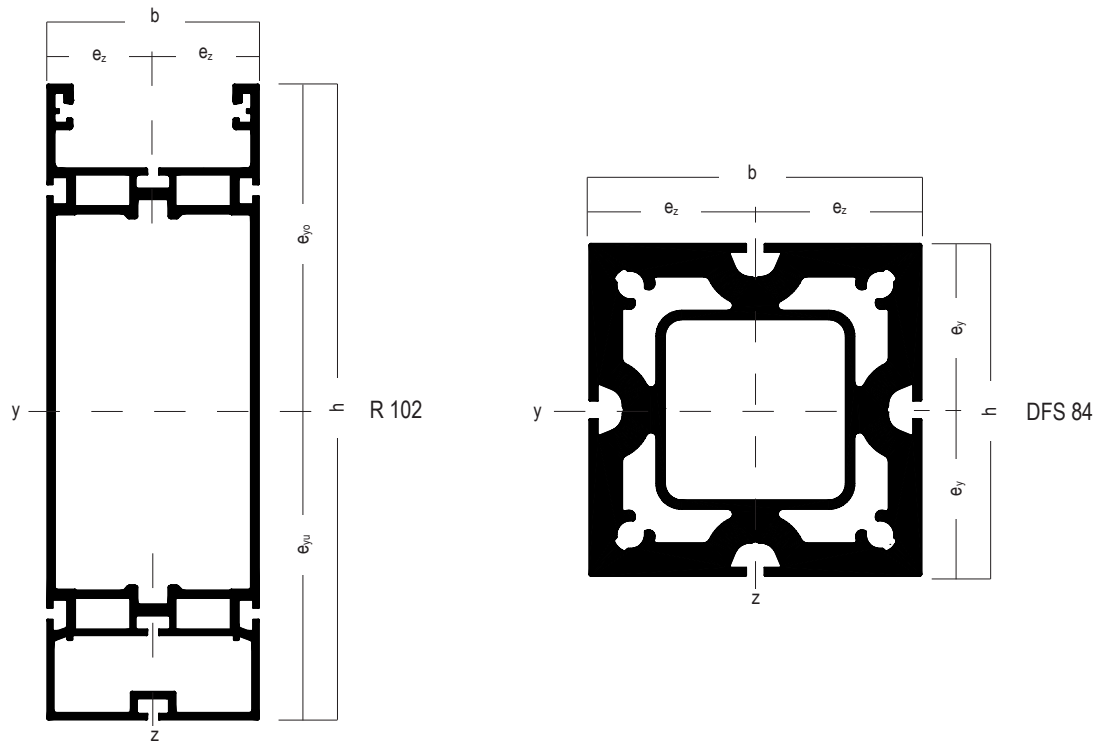


BEAM SPAN: 7 + 5 M = 12 M (ECCENTRIC EXTENSION)

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

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

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



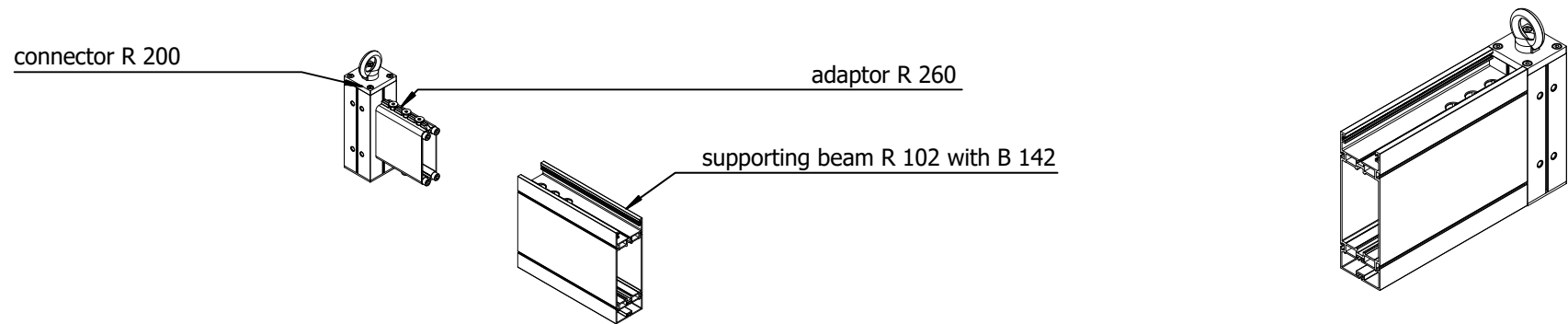
Material: aluminium EN AW-6060 T66 – specific weight: 2,70 g/cm³

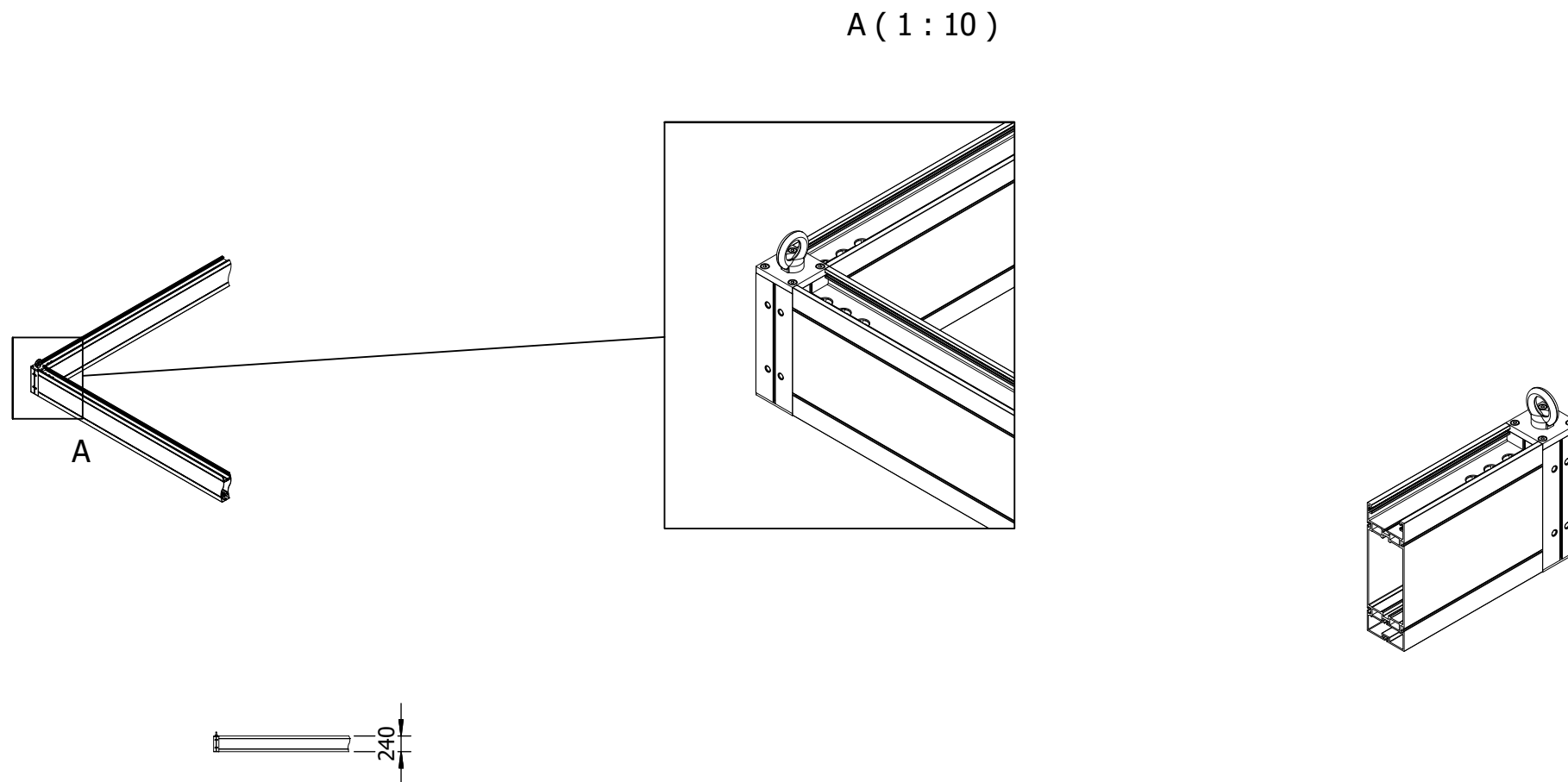
LEGEND	
A	Querschnitt
G	Gewicht
J	Trägheitsmoment
W	Widerstandsmoment
i	Trägheitsradius

EXTRUSION	A	G	J _y	W _y	i _y	J _z	W _z	i _z
	e _y cm ²	e _z 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

TIR-A80.0D





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