



Interal T.C. bv

40 / 41
PROTRUSS CATALOG

Interal is a Dutch producer of aluminium truss systems. We manufacture straight trusses; ladder, triangular, square, circular and elliptical trusses and all kinds of special truss designs. All our trusses are available in a range of sizes: 20/20, 30/30, 30/40, 40/40 or 40/60 and tube thickness: 32x1.5, 50x2, 48x3, 50x3 or 50x4. We offer two different lines for maximum interchangeability, the Protruss range and the Intertruss range.

Because we manufacture in-house, we are not only able to react flexibly and quickly, but can also supply customer-specific or project-specific designs. Our “specials” - aluminium structures of every conceivable shape and size- are expertly produced to your exact specifications. You can also call on Interal’s expertise and experience at the initial design stage.

Buy:

The Protruss and the Intertruss ranges are highly competitive, both in terms of quality and price. Orders are placed directly with the factory, with all the benefits of short lines of communication, short lead times and attractive prices. Our trusses - 30/30 and 40/40 ladder, triangular and square – are TÜV certified (certificate number: R60006047). All other models will be certified within a short period.

Rent:

Our rental stock includes over one hundred circular structures with diameters ranging from 1 up to 40 metres – these structures can also be supplied in segments. Special structures like these are easy to combine with straight trusses, corner elements, box corners, etc. In addition, we also stock 3000 metres of 30/30 and 40/40 straight truss (triangle and square), with all the matching corner elements and accessories. This range of rental products positions us firmly among the largest truss suppliers in Europe.

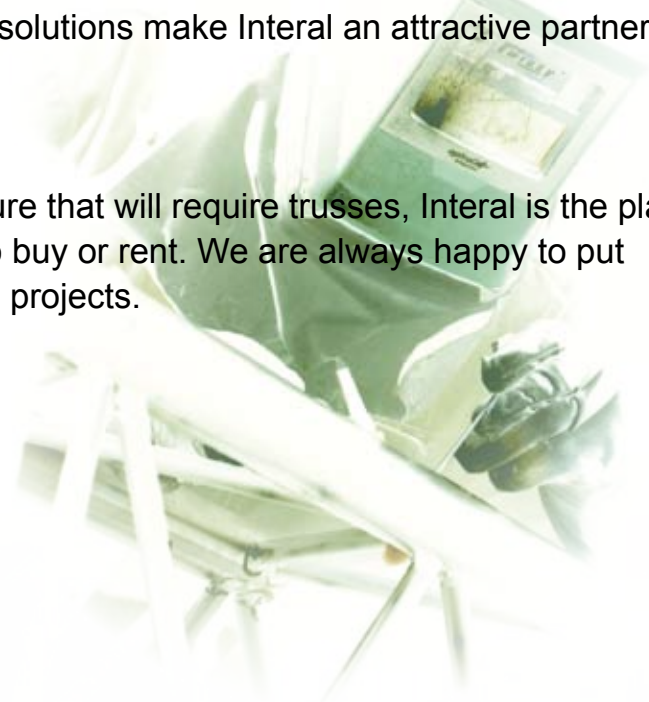
The comprehensiveness and versatility of our rental stock, in combination with our inventiveness and experience with custom solutions make Interal an attractive partner for stand builders and event organisers.

On a final note:

If you are planning a project in the near future that will require trusses, Interal is the place to come, regardless of whether you want to buy or rent. We are always happy to put forward an attractive proposal for individual projects.

Yours sincerely,


Interal T.C.



Protruss 40 / 41.

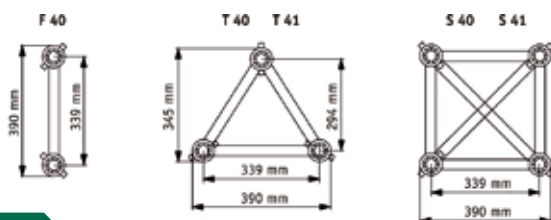
The Protruss 40/41 series is the strongest and largest one in the mid-range truss. Just like the 30/31 series they have been designed specifically for professional light-and sound equipment, on exhibitions, for entertainment, theatre and discotheque environments. Thanks to its increased size, 39 X 39 cm, the loading capacity and maximum span are higher than the 30/31 series, which extends the possibilities by the extra margin that is so often required in large-scale projects.

technical specifications protruss

Type	F = Ladder T = Triangle S = Square	
Alloy	51 st. AlMgSi 1 F 31 ISO Standard AlMgSi EN-AW 6082 T6	
Tube	*40 Ø 50 x 2 mm *41 Ø 48 x 3 mm	
Brace	*40 Ø 20 x 2 mm *41 Ø 20 x 2 mm	
Connection	Alu. connection piece with spigot and R-spring	

Interal produces a large range of corners, arches, and special constructions based on the Protruss 40/41 series.

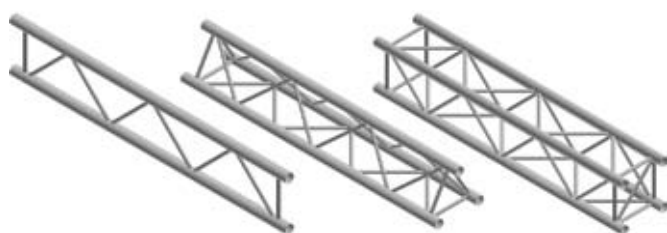
The conical connection piece (same as for the 30/31) allows you to assemble your system in the shortest of time.



F 40 / 41

T 40 / 41

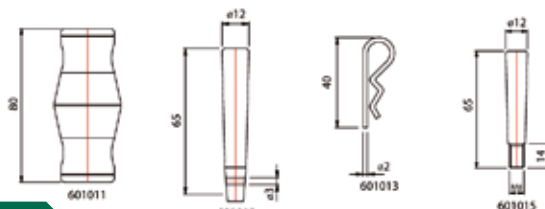
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F 40 / 41

T 40 / 41

S 40 / 41



601011

601012

601013

601015



description

connection pieces

PROTRUSS 40 SERIES

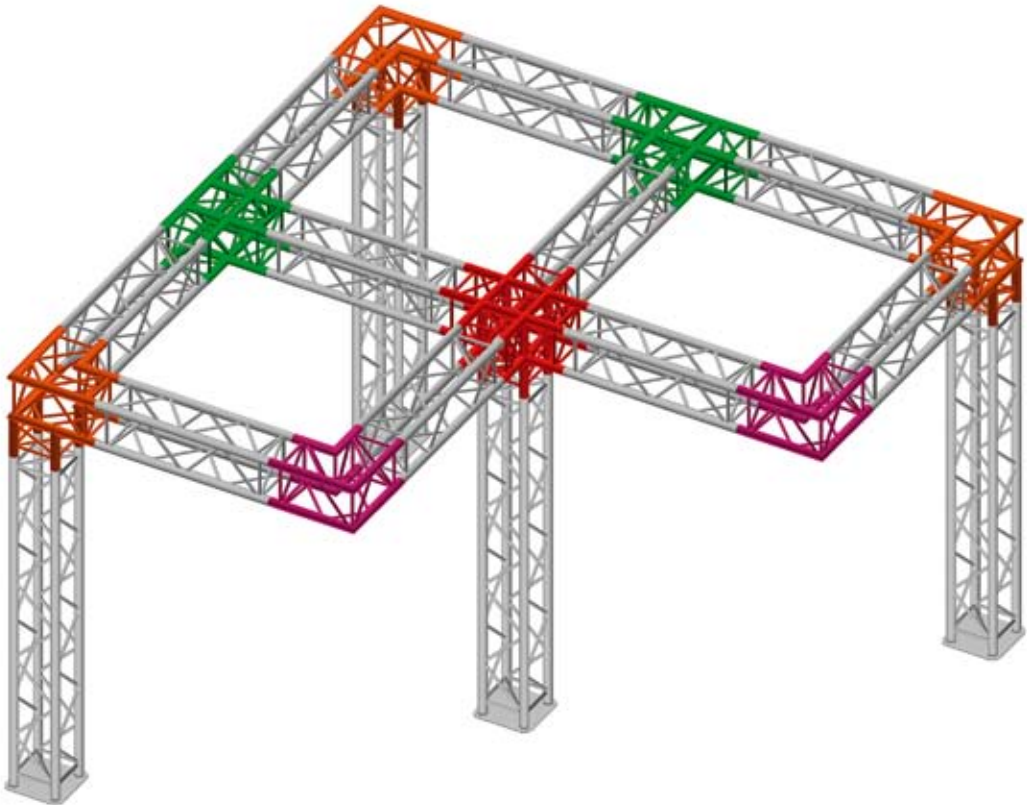
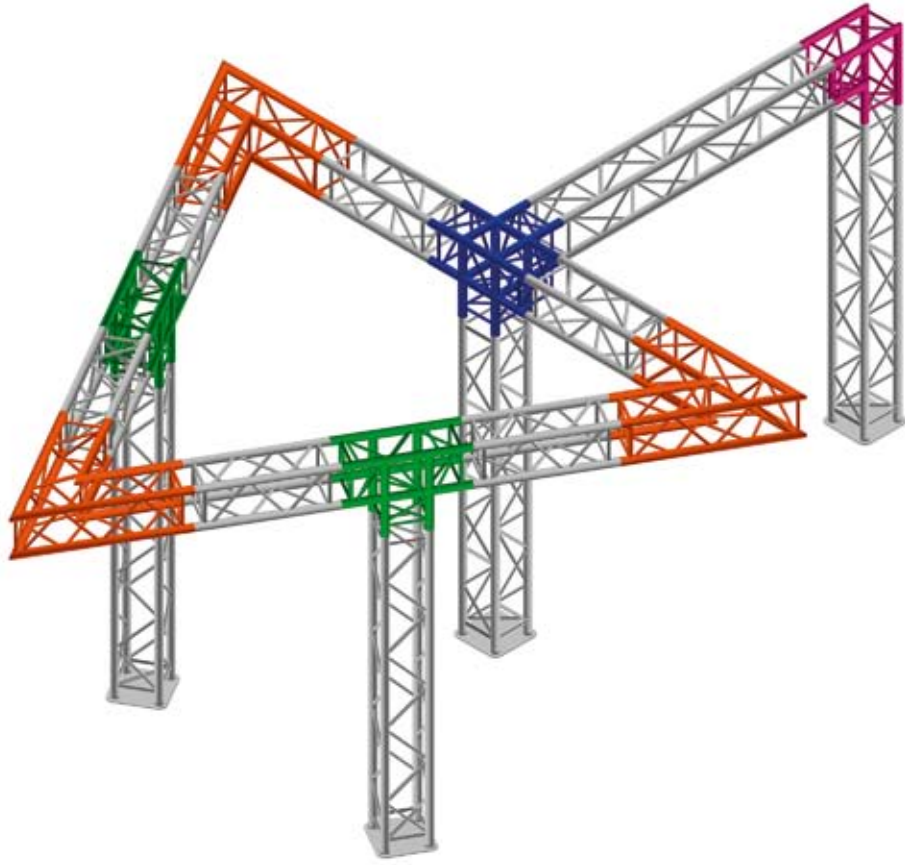
TUBE - Ø 50 X 2

Standard Lengths (m)	0,29	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
F40 (kg)	0,59	1,02	2,03	3,05	4,06	5,08	6,09	7,11	8,12	9,14	10,16
T40 (kg)	1,15	1,99	3,98	5,97	7,96	9,95	11,94	13,93	15,92	17,91	19,90
S40 (kg)	1,65	2,84	5,68	8,52	11,36	14,21	17,05	19,89	22,73	25,57	28,41

PROTRUSS 41 SERIES

TUBE - Ø 48 X 3

Standard Lengths (m)	0,29	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
F41 (kg)	0,78	1,35	2,71	4,06	5,41	6,76	8,12	9,47	10,82	12,17	13,53
T41 (kg)	1,45	2,50	4,99	7,49	9,99	12,49	14,98	17,48	19,98	22,48	24,97
S41 (kg)	2,04	3,52	7,03	10,55	14,07	17,58	21,10	24,62	28,13	31,65	35,17





type	description
001F	2 way corner 45°



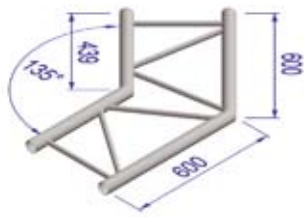
type	description
002F	2 way corner 60°



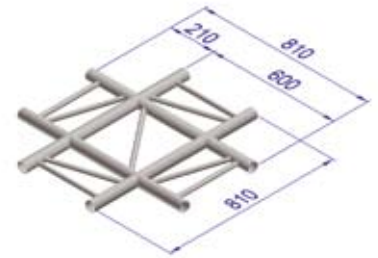
type	description
003F	2 way corner 90°



type	description
004F	2 way corner 120°



type	description
005F	2 way corner 135°



type	description
016F	Cross



type	description
017F	T-joint horizontal



type	description
001U	2 way corner 45°



type	description
002U	2 way corner 60°



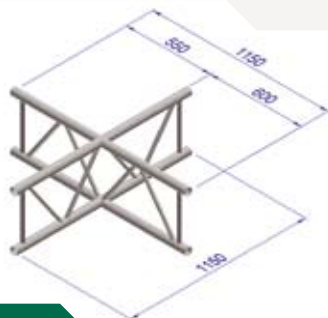
type	description
003U	2 way corner 90°



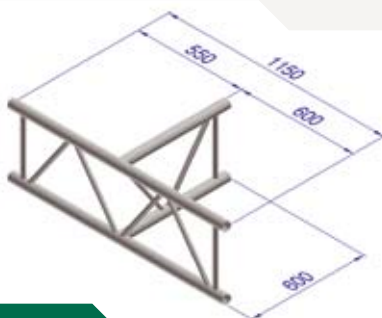
type	description
004U	2 way corner 120°



type	description
005U	2 way corner 135°

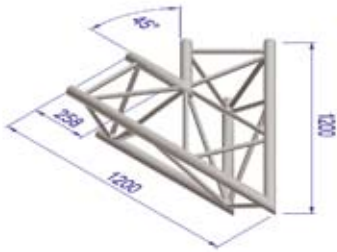


type	description
016U	Cross

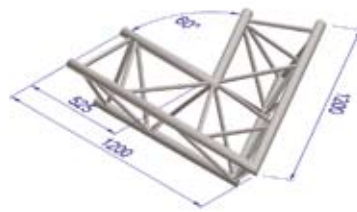


type	description
017U	T-joint horizontal

type	description
"F"	FLAT
"U"	UP



type	description
001	2 way corner 45°



type	description
002	2 way corner 60°



type	description
003	2 way corner 90°



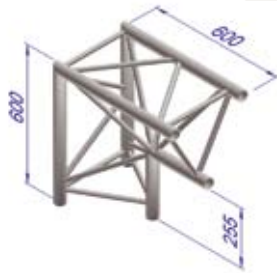
type	description
004	2 way corner 120°



type	description
005	2 way corner 135°



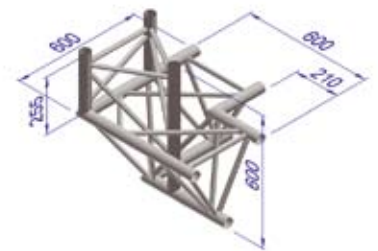
type	description
006	2 way corner 90° apex up



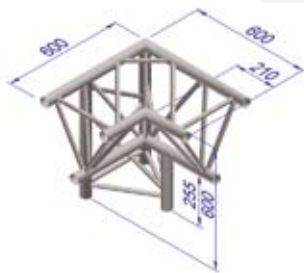
type	description
007	2 way corner 90° apex down



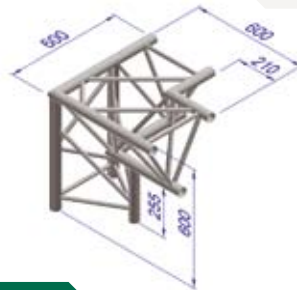
type	description
010	3 way corner 90°



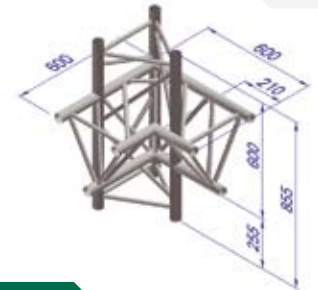
type	description
011	3 way corner 90°



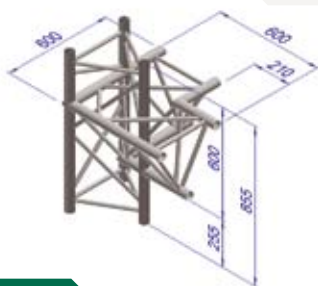
type	description
012	3 way corner 90°



type	description
013	3 way corner 90°



type	description
014	4 way corner 90°



type	description
015	4 way corner 90°



type	description
016	Cross

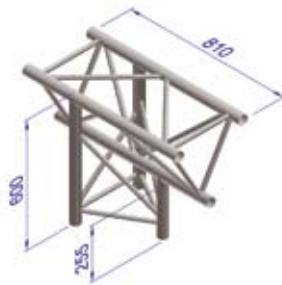


type	description
017	T-joint horizontal

TRIANGLES



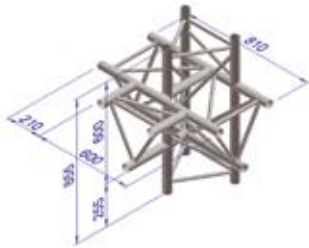
type	description
018	T-joint vertical



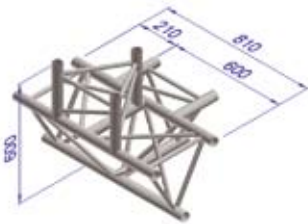
type	description
019	T-joint vertical (billboard)



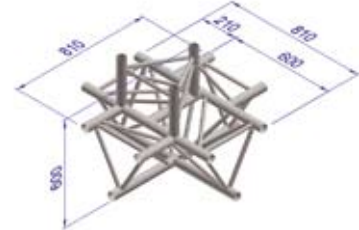
type	description
020	T-joint + down



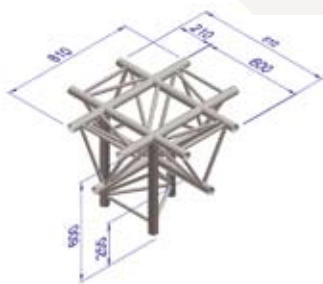
type	description
021	T-joint + up + down



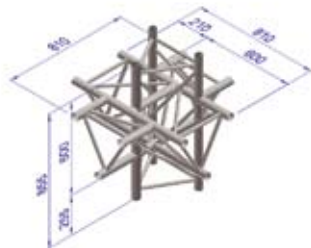
type	description
022	T-joint + up



type	description
023	Cross + up



type	description
024	Cross + down



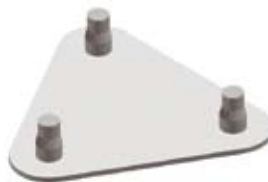
type	description
025	Cross + up + down



type	description
603104	Bookcorner



type	description
030	Base / wall plate 6 mm
031	Base / wall plate 8 mm

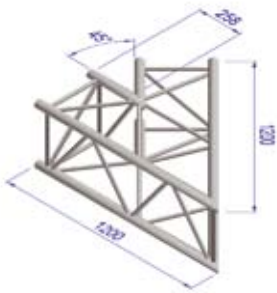


type	description
030	Base / wall plate 6 mm
031	Base / wall plate 8 mm

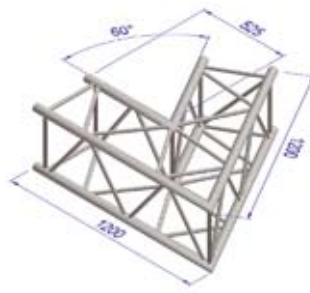


type	description
030	Base / wall plate 6 mm
031	Base / wall plate 8 mm

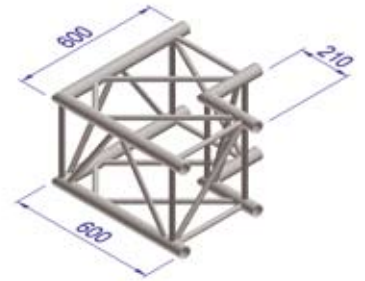




type	description
001	2 way corner 45°



type	description
002	2 way corner 60°



type	description
003	2 way corner 90°



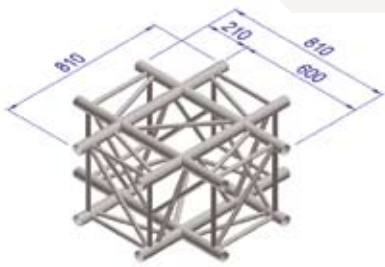
type	description
004	2 way corner 120°



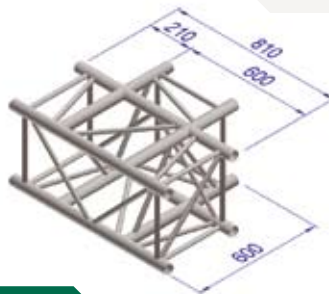
type	description
005	2 way corner 135°



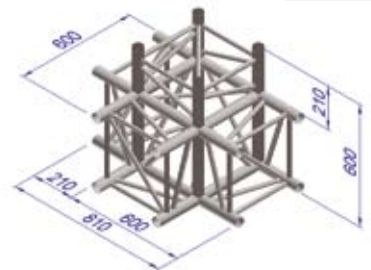
type	description
012	3 way corner 90°



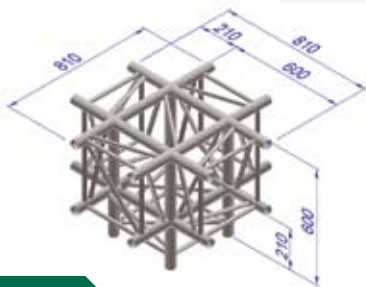
type	description
016	Cross



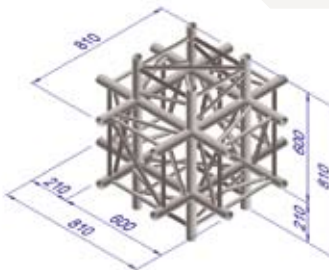
type	description
017	T-joint horizontal



type	description
020	T-joint + down



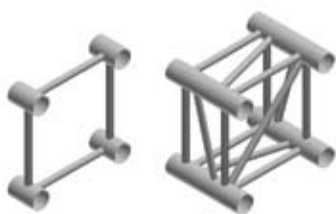
type	description
024	Cross + down



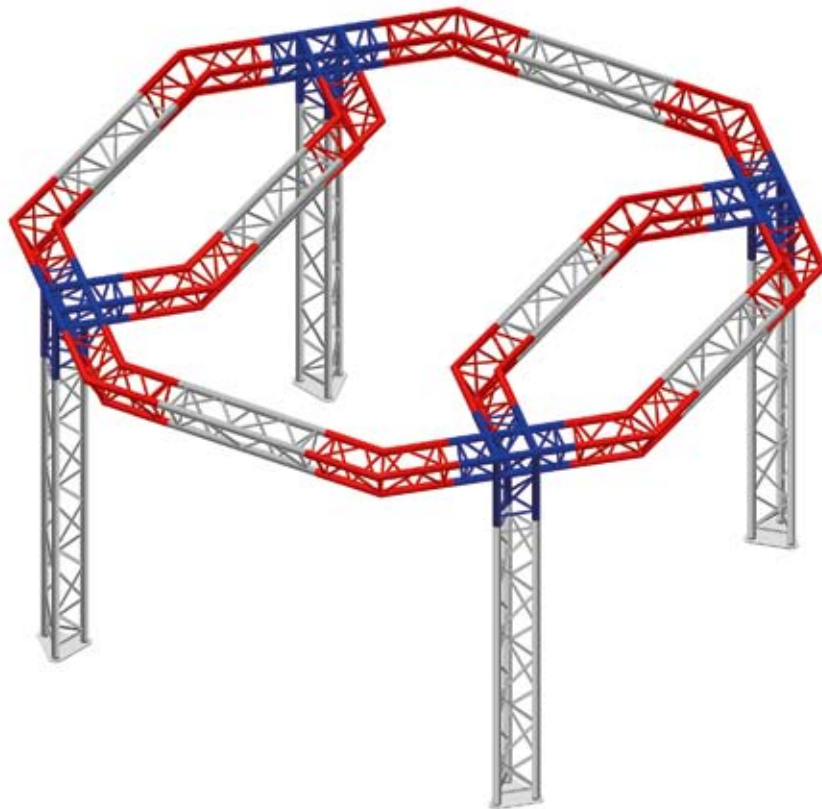
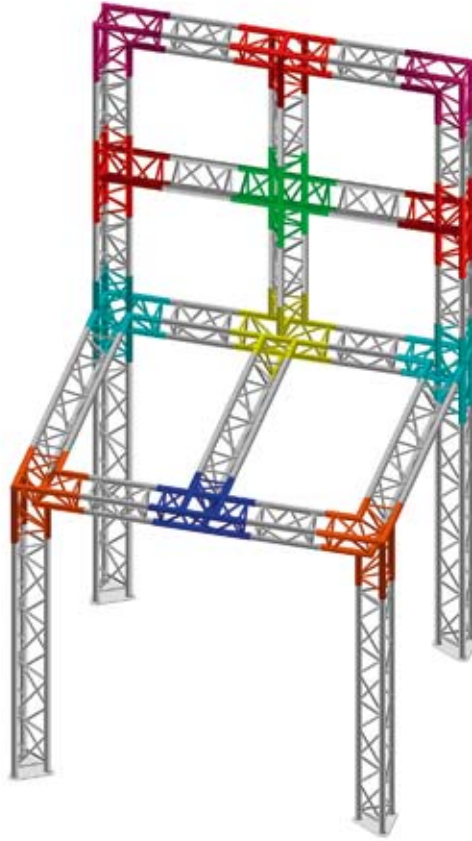
type	description
025	Cross + up + down



type	description
603101	Boxcorner



type	description
603204/08	Mounting rack



PROTRUSS F40				TUBE - Ø 50 X 2					
Length (M)	3,00	4,00	5,00						
Point Load (Kg)									
Uniformly Distributed Load (Kg/M)									

PROTRUSS F41				TUBE - Ø 48 X 3					
Length (M)	3,00	4,00	5,00						
Point Load (Kg)	352	135	49						
3 Point Load (Kg at ¼, ½ and ¾)	146	60	25						
Uniformly Distributed load (Kg/M)	175	55	19						
Uniformly Distributed Load (Kg)	528	220	96						

PROTRUSS T40				TUV						TUBE - Ø 50 X 2	
Length (M)	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00		
Point Load (Kg)	233	242	211	186	173	171	153	140	130		
Uniformly Distributed Load (Kg/M)	319	207	149	104	80	61	50	40	33		

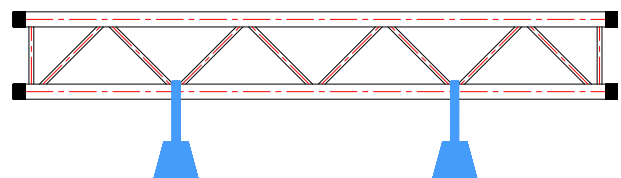
PROTRUSS T41				TUV						TUBE - Ø 48 X 3	
Length (M)	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00		
Point Load (Kg)	843	692	593	486	401	369	331	286	231		
3 Point Load (Kg at ¼, ½ and ¾)	386	328	280	236	199	181	163	141	118		
Uniformly Distributed load (Kg/M)	327	257	180	133	99	77	62	50	40		
Uniformly Distributed Load (Kg)	1309	1286	1083	927	789	700	622	552	476		

PROTRUSS S40				TUV						TUBE - Ø 50 X 2	
Length (M)	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00		
Point Load (Kg)	323	314	287	272	262	266	254	242	216		
Uniformly Distributed Load (Kg/M)	441	346	282	226	177	142	115	95	80		

PROTRUSS S41				TUV						TUBE - Ø 48 X 3	
Length (M)	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00		
Point Load (Kg)	1361	1249	1216	910	826	739	698	602	554		
3 Point Load (Kg at ¼, ½ and ¾)	458	445	450	448	433	383	351	305	278		
Uniformly Distributed load (Kg/M)	364	285	234	199	172	151	136	112	93		
Uniformly Distributed Load (Kg)	1455	1428	1406	1389	1375	1362	1351	1230	1109		

The loading figures are valid only for application of the truss under static loading. The figures have been determined in accordance with DIN standards 4113 Part 1 and Part 2. Whenever dynamic loads are expected, the loading figures should be reduced by 50%. For other loading conditions a structural engineer or Interl T.C. should be consulted.

The principle when using weight tables is that a load which is hung from the truss must be attached (by means of a clamp, sling, etc.) as close as possible to an intersection of the diagonals, so that the load is divided between (at least two) main tubes as much as possible.



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