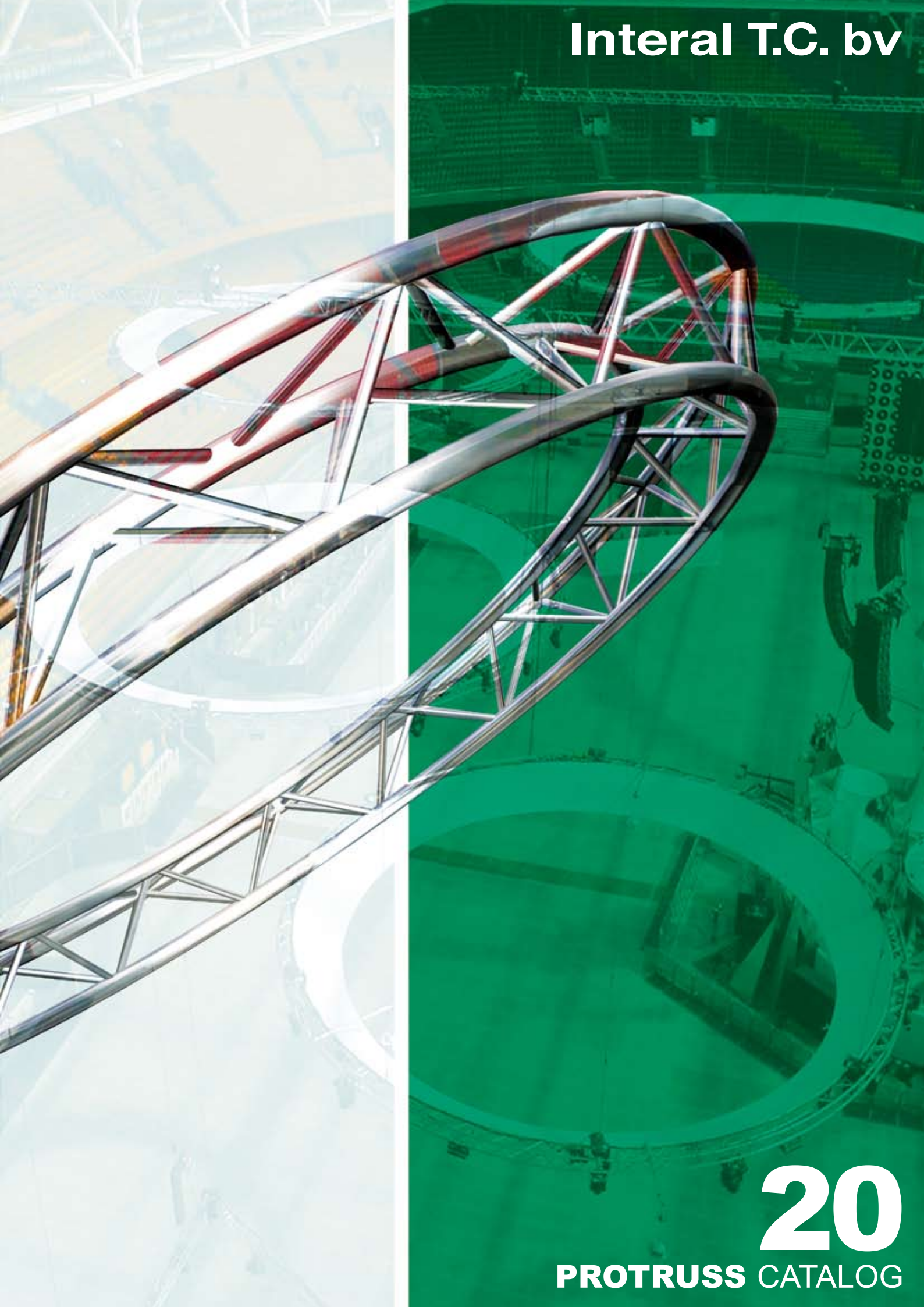


Interal T.C. bv



20

PROTRUSS CATALOG

The Cube Tube

The Cube Tube is an mono-cube-tube system. It is ideal for single tube structures and matrix grids. Each 'node' consists of a solid aluminium cube with threaded faces to enable simple 2way junctions up to complex 6way intersections to be constructed.

The Cube Tube can be used for 48 to 50 mm or 32 mm tubes fitted with the Protruss half connection pieces and the Protruss female connection pieces for an extremely fast, simple and secure construction. The tubes are available in all lengths.

CUBE TUBE 48-50



type	description
601060	boxcorner knob M10



type	description
601022	half connection piece with M10, 40mm, with chamber



type	description
Din 7984/10025	screw M10 x 25 mm

CUBE TUBE 32



type	description
601160	boxcorner knob M6

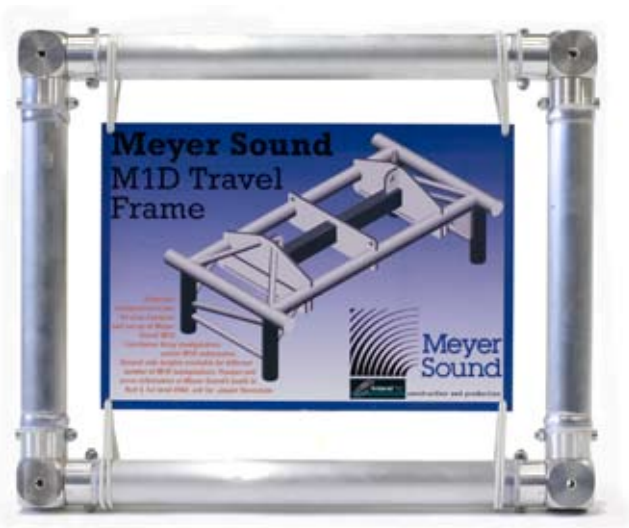


type	description
601122	half connection piece with M6, 28 mm, with chamber



type	description
Din 7984/ 06020	screw M6 x20 mm

PROTRUSS SINGLE TUBE



Protruss 20.

The Protruss 20 is particularly well suited for integrating a decorative accent into various interiors. Ideal for use in shops and/or show room interiors, displays and banner shapes, the Pro 20 is also increasingly being used for stand construction, especially as a decorative element, due to its small size and light weight combined with large loading capacity.

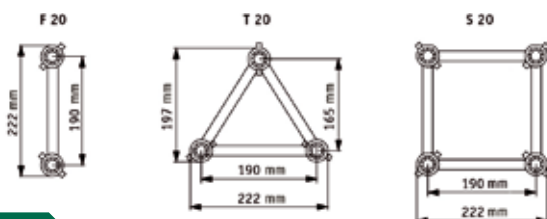
Its striking industrial design makes the Protruss 20 an eye-catcher in any environment. The Protruss is available in bright aluminium or any Ral colour one chooses, due to the use of Powder Coated colours and finishes.

technical specifications protruss

Type	F = Ladder T = Triangle S = Square
Alloy	51 st AlMgSi 1 F31 ISO Standard AlMgSi EN-AW 6082 T6
Tube	*20 Ø 32 x 1,5 mm
Brace	*20 Ø 10 x 1 mm
Connection	Small type alu. connection piece with spigot and R-spring

The conical connection pieces (mini size) allow quick and easy assembly, without the use of tools.

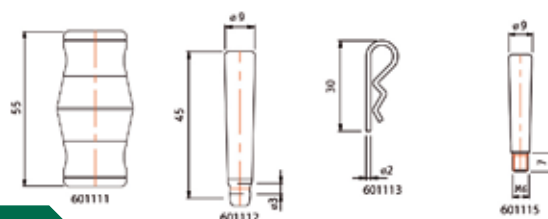
Interal produces a large assortment of corners, arches, circles and special constructions based on the Protruss 20 series.



F 20

T 20

S 20



601111

601112

601113

601115



F 20

T 20

S 20



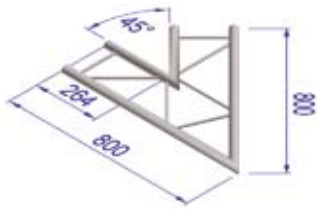
description

connection pieces

PROTRUSS 20 SERIES

TUBE - Ø 32 X 1,5

Standard Lengths (m)	0,25	0,50	0,75	1,00	1,50	2,00	2,50	3,00				
F20 (kg)	0,60	0,80	1,00	1,10	1,50	2,00	2,40	2,90				
T20 (kg)	1,20	1,40	1,60	1,80	2,60	3,40	4,00	4,90				
S20 (kg)	1,80	2,00	2,30	2,50	3,50	4,50	5,50	6,50				



type	description
001F	2 way corner 45°



type	description
002F	2 way corner 60°



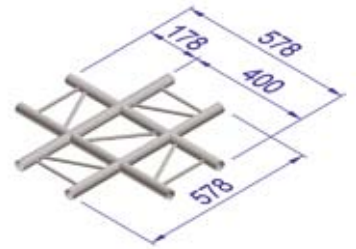
type	description
003F	2 way corner 90°



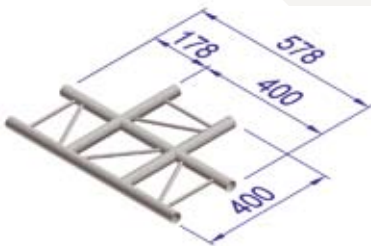
type	description
004F	2 way corner 120°



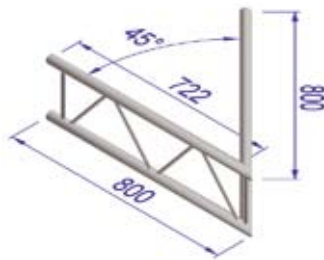
type	description
005F	2 way corner 135°



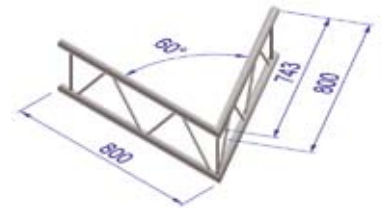
type	description
016F	Cross



type	description
017F	T-joint



type	description
001U	2 way corner 45°



type	description
002U	2 way corner 60°



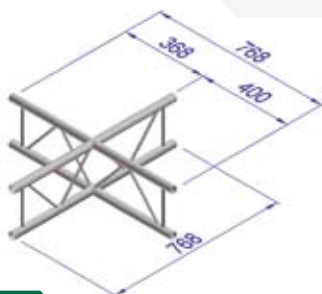
type	description
003U	2 way corner 90°



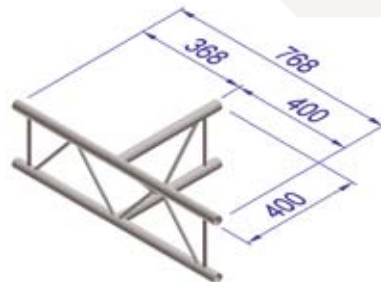
type	description
004U	2 way corner 120°



type	description
005U	2 way corner 135°



type	description
016U	Cross



type	description
017U	T-joint



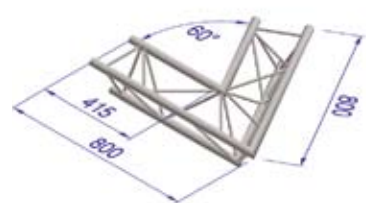
type	description
030	Base / wall plate 6 mm
031	Base / wall plate 8 mm

“F” = FLAT / “U” = UP

TRIANGLES



type	description
001	2 way corner 45°



type	description
002	2 way corner 60°



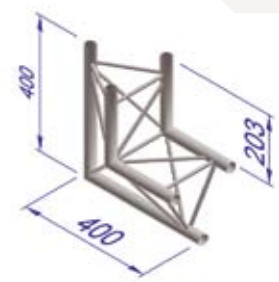
type	description
003	2 way corner 90°



type	description
004	2 way corner 120°



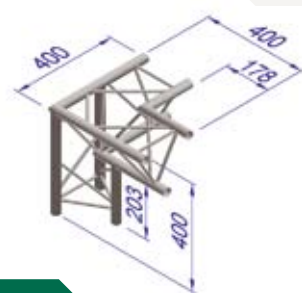
type	description
005	2 way corner 135°



type	description
006	2 way corner 90° apex up



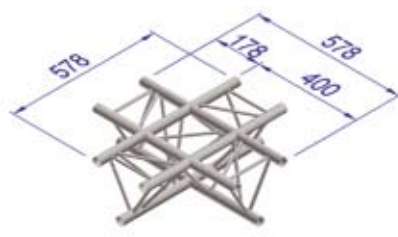
type	description
007	2 way corner 90° apex down



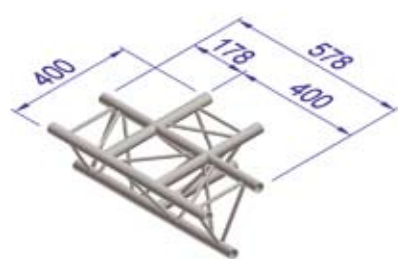
type	description
012	3 way corner 90°



type	description
013	3 way corner 90°



type	description
016	3 way corner 90°



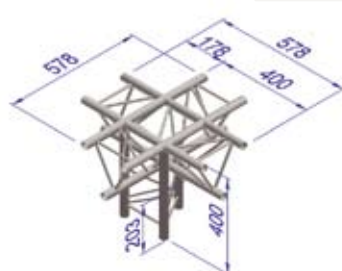
type	description
017	T-joint horizontal



type	description
018	T-joint vertical



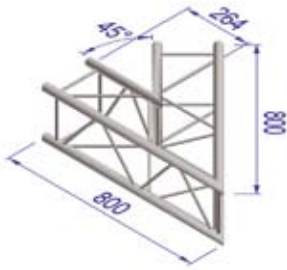
type	description
020	T-joint + down



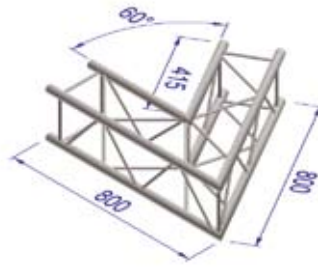
type	description
024	Cross + down



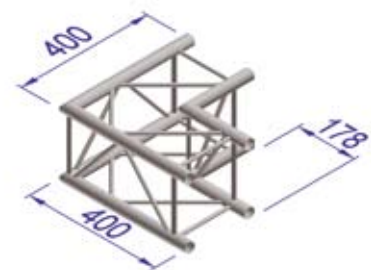
type	description
030	Base / wall plate 6 mm
031	Base / wall plate 8 mm



type	description
001	2 way corner 45°



type	description
002	2 way corner 60°



type	description
003	2 way corner 90°



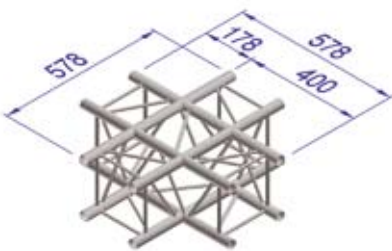
type	description
004	2 way corner 120°



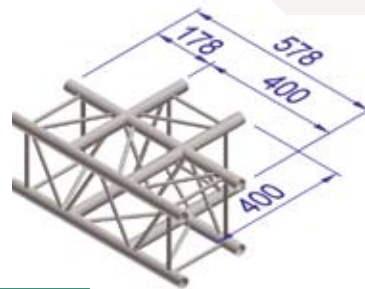
type	description
005	2 way corner 135°



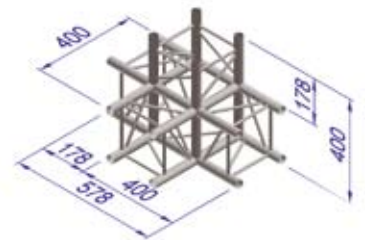
type	description
012	3 way corner 90°



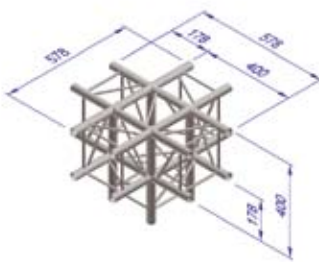
type	description
016	Cross



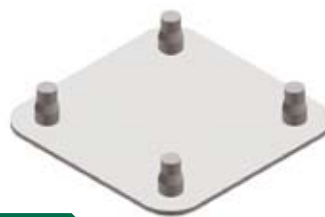
type	description
017	T-Joint



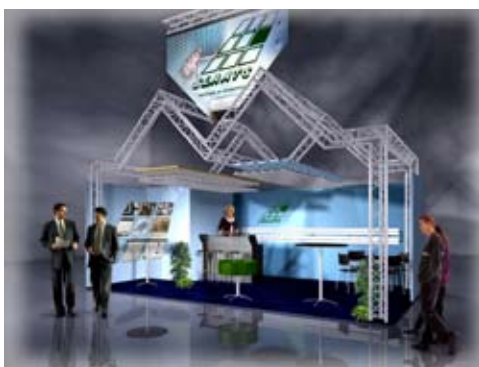
type	description
020	T-joint + down

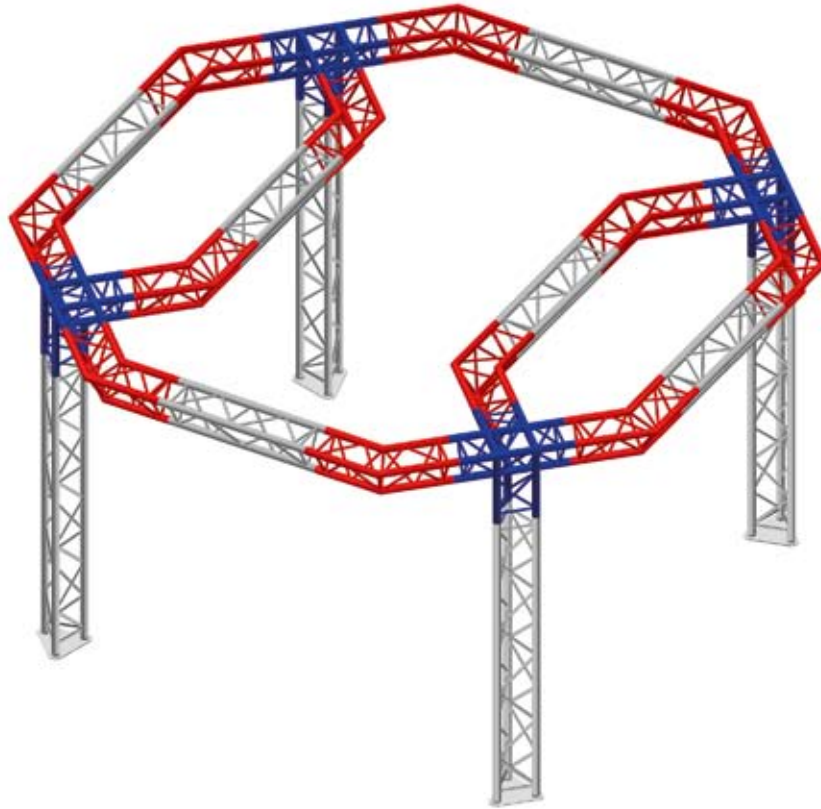


type	description
024	Cross + down



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





PROTRUSS F20

TUBE - Ø 32 X 1,5

Length (M)	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00
Point Load (Kg)												
Uniformly Distributed load (Kg/M)												
Uniformly Distributed Load (Kg)												

PROTRUSS T20

TUBE - Ø 32 X 1,5

Length (M)	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00
Point Load (Kg)	300	200	150	109	85	70	55	50				
Uniformly Distributed load (Kg/M)	300	155	90	50	30	20	18	10				
Uniformly Distributed Load (Kg)	300	310	270	200	150	120	126	80				

PROTRUSS S20

TUBE - Ø 32 X 1,5

Length (M)	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00
Point Load (Kg)	375	370	340	250	200	165	140	120				
Uniformly Distributed load (Kg/M)	375	180	125	90	72	54	38	30				
Uniformly Distributed Load (Kg)	375	360	375	360	360	324	266	240				

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 Internal T.C. should be consulted.

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