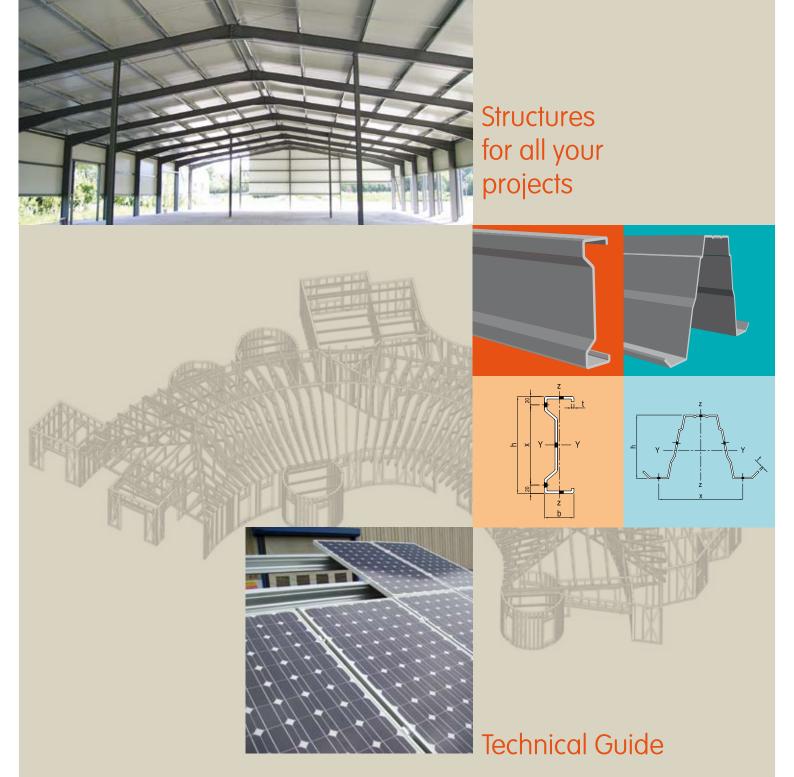


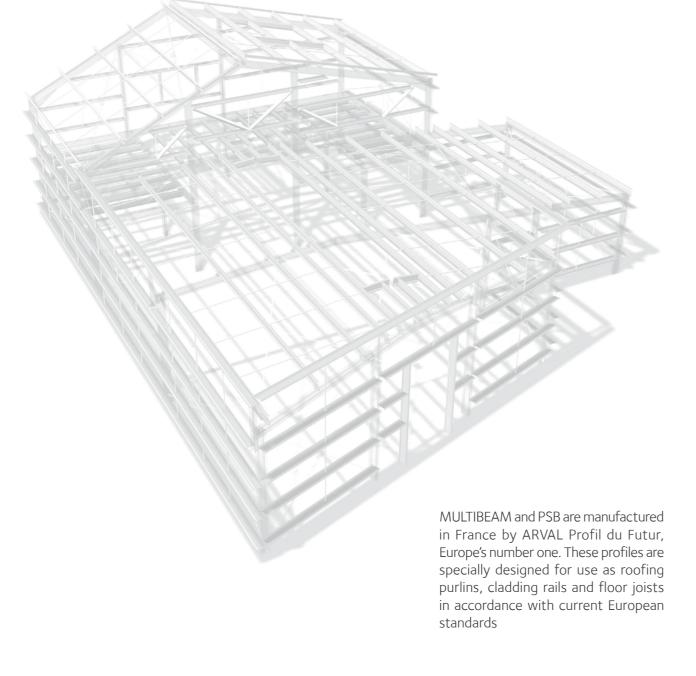


Profil du Futur



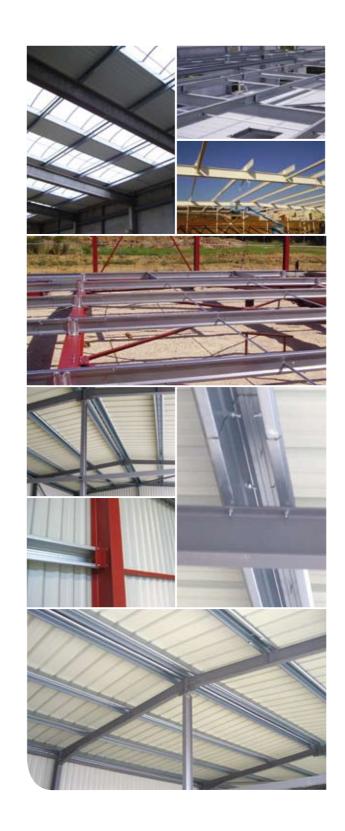


Highly efficient load-bearing structures for all your projects





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Service



Service



in Europe for 30 years now, carrying out close to 10 000 projects per year thus becoming the European leader in steel roofing, cladding and flooring supports thanks to its purlin, rail and joist systems.

Our MULTIBEAM and PSB ranges provide ARVAL Profil du Futur with the ability to offer you the best possible building solutions for a given site, whatever the

With our purlin, rail and joist systems you will receive the "complete ARVAL Profil du Futur service", which is as follows:

- A direct sales organization with a local network and inside technical sales representatives, an engineering and design department with engineers, technicians, designers and draughtsmen, a "customer service" with logistics people, who will schedule your production and dispatch your order according to your delivery time.

Arval Profil du Futur has been present - All our purlin, rail and joist systems are delivered on-site, whatever the quantity, and are design justified on the basis of testing and Eurocodes. They are also covered by technical approvals and TAC, validated by auditors in France and in many other countries.

> In-company quality controls are performed under the supervision of the official German organization "Versuchsanstalt für Stahl, Holz und Steine".

Sales department

Our local area representatives will set up and maintain good business relationships with you as well as good business cooperation.

They represent and fully commit ARVAL Profil du Futur.

In our offices, technical sales representatives are in charge of defining systems with high-level optimization, and they also perform quantity surveys according to your specifications (the building's properties, weather loading, working loads ...) and they will give you a written agreement to the price and lead time.

Order servicina:

Logistics people - Engineering & design department - Technical department

Our logistics people are in charge of processing orders, from the time they acknowledge receipt of the order to its delivery on-site.

They make sure detail plans, a drawing of the general layout and design calculations have been made and then they schedule release for manufacture.

They are in permanent contact with our shipper thus quaranteeing delivery on the agreed date.

Our engineering & design department has software adapted to our product range and based on Auto CAD and Tekla structures, which serves to establish all the plans concerning details, location, manufacturing and assembly according to your framework drawing.

Our technical department makes out design calculation documents for the inspection bodies. It ensures compliance with current standards and due renewal of all appropriate technical approvals.

Manufacturina

In our Horbourg-Wihr plant, near Colmar (France), we have facilities specially designed to obtain efficient and cost effective manufacturing of the whole ARVAL Profil du Futur range as well as all our flashings, thus quaranteeing observance of the lead time.

Our raw materials are subject to very stringent specifications and undergo a systematic quality check.

Our finished products are checked daily by our quality control department, and very regularly by an outside independent inspection body.

Delivery

The scope of our business is such that we can quarantee on-site delivery in keeping with the contractual deadline whatever the size of the affair.

Our shipper has a shipping office in our plant, which enables him to be even more reactive, supervise the progress of the order and enjoy the advantage of customer proximity.







Multibeam

Multibeam Purlin System

A simple but modern purlin system suited to all types of buildings as well as to all kinds of frames and bays.

Rapid installation

Symmetrical profile (no right-hand and left-hand)

Stable profile

Wide flanges (easy roof laying)

Simple fixing onto stanchions and rafters

Simple and efficient positioning of ties

Cost effective

Lightweight

Galvanized finish

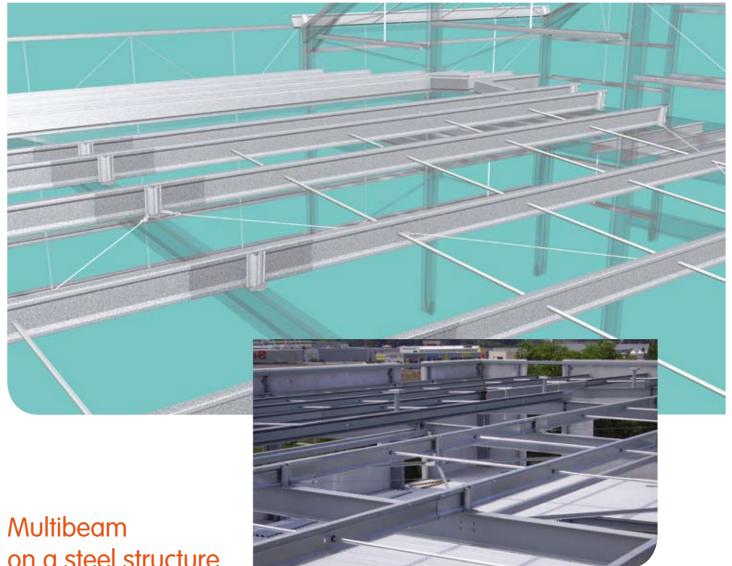
A wide range of applications

Multibeam is the result of intensive testing and is compatible with the latest design and construction techniques.

Multibeam has been present in Europe for over 30 years, continually optimizing its performance, and now offers an unbeatable mixture of simplicity and efficiency.

Multibeam is manufactured from Sendzimir processed galvanized steel (275 gr/m² double-sided for standard applications and up to 600 gr/m² double-sided for special applications, coastal, aggressive environments...). The guarantee of a 350 N/mm² and 390 N/mm² yield stress contributes to the performance and quality of the profiles.





on a steel structure



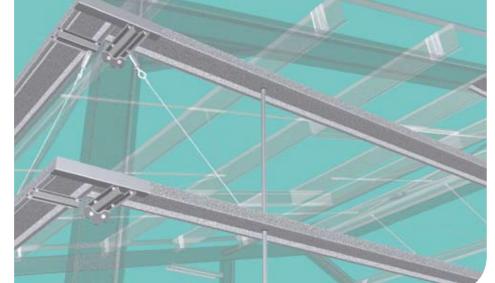
Multibeam on a concrete structure



Multibeam Rail System

The Multibeam rail system is one of the simplest today.

The rails and ties are perfectly suited to all kinds of structures and make the system rigid and easy to install.









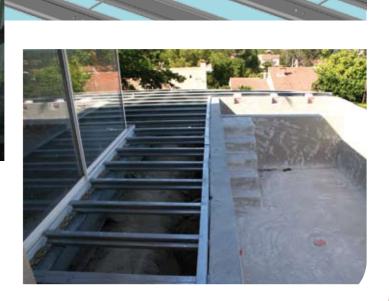
Multibeam Joist System

Multibeam joisting is resistant, cost-effective and the solution you need for your new floors, refurbishments, extensions and mezzanines because the elements can be hand-carried most of the time.







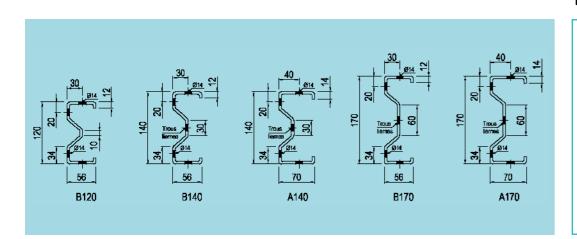




Multibeam Range

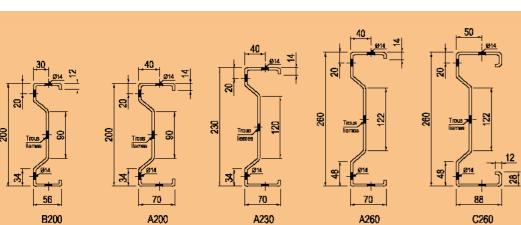


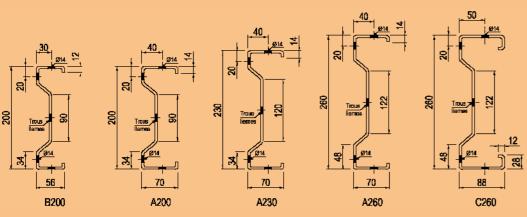
Multibeam Range

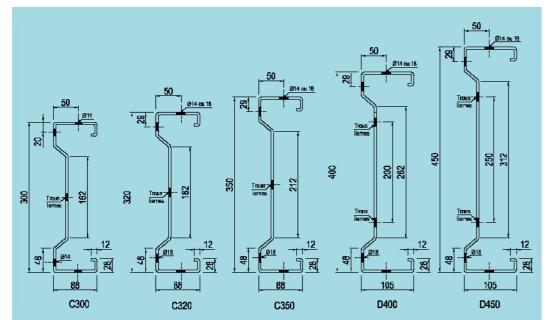


Types A and B z <u>Flange</u>

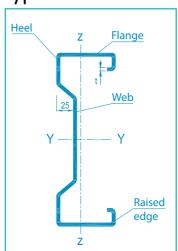
Raised







Types C and D



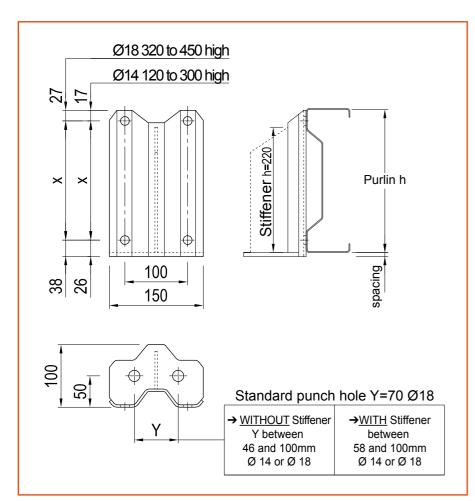
						G	ross properti	es		
Profiles	Height (mm)	Thickness t (mm)	Weight G (kg/m)	Area A (cm²)	Inertia ly (cm ⁴)	Modulus of section Wy (cm³)	Gyration radius iy (cm)	Inertia Iz (cm ⁴)	Modulus of section Wzmin (cm³)	Gyration radius iz (cm)
B120150	120	1,5	3,07	3,87	82,6	13,94	4,62	12,62	3,57	1,81
B140150		1,5	3,34	4,16	118,91	17,17	5,35	12,72	3,64	1,75
B140200	140	2	4,45	5,53	156,67	22,71	5,32	16,46	4,75	1,72
A140150	140	1,5	3,69	4,63	140,42	20,28	5,51	23,36	5,33	2,25
A140200		2	4,92	6,16	185,35	26,86	5,49	30,4	6,99	2,22
B170150		1,5	3,69	4,6	189,16	22,45	6,42	12,84	3,73	1,67
B170200	170	2	4,92	6,12	249,73	29,73	6,39	16,63	4,88	1,65
A170150	170	1,5	4,04	5,06	221,21	26,26	6,61	23,36	5,34	2,15
A170200		2	5,39	6,75	292,52	34,82	6,58	30,41	7,00	2,12
B200150		1,5	4,04	5,03	280,09	28,22	7,46	12,93	3,8	1,6
B200200	200	2	5,39	6,71	370,33	37,41	7,43	16,77	4,99	1,58
A200150	200	1,5	4,37	5,5	324,78	32,72	7,68	23,36	5,34	2,06
A200200		2	5,83	7,34	430,06	43,44	7,66	30,41	7,00	2,04
A230150		1,5	4,73	5,94	453,11	39,66	8,73	23,36	5,34	1,98
A230200	230	2	6,30	7,92	600,61	52,68	8,71	30,41	7,01	1,96
A230250		2,5	7,87	9,88	744,24	65,43	8,68	37,00	8,6	1,93
A260150		1,5	5,08	6,38	601,00	46,5	9,71	25,71	5,67	2,01
A260200		2	6,77	8,51	797,2	61,8	9,68	33,53	7,45	1,98
A260250		2,5	8,46	10,62	988,55	76,78	9,65	40,86	9,16	1,96
C260150	260	1,5	6,08	7,56	764,16	59,12	10,05	64,76	12,11	2,93
C260175		1,75	7,09	8,83	889,59	68,89	10,04	74,78	14,01	2,91
C260200		2	8,11	10,08	1013,45	78,56	10,03	84,51	15,86	2,9
C260250		2,5	9,93	12,56	1256,46	97,59	10,00	103,06	19,42	2,86
C260320		3,2	12,72	15,97	1586,15	123,53	9,97	127,08	24,07	2,82
C300150		1,5	6,55	8,15	1074,18	71,97	11,48	65,11	12,05	2,83
C300175	200	1,75	7,64	9,51	1250,94	83,88	11,47	75,18	13,94	2,81
C300200 C300250	300	2	8,73	10,86	1425,6	95,68	11,45	84,94	15,78	2,8
		2,5	10,72	13,55	1768,67	118,9	11,43	103,57	19,32	2,77
C300320 C320175		3,2	13,72	17,23	2235,00	150,61	11,39	127,67	23,95	2,72
C320173		1,75 2	7,92 9,05	9,85 11,26	1459,8 1663,88	91,74 104,65	12,17 12,16	75,36 85,14	13,9 15,74	2,77 2,75
C320200 C320250	320	2,5	11,11	14,04	2064,92	130,07	12,10	103,8	19,28	2,73
C320230		3,2	14,22		2610,49	164,8			23,89	2,72
C320320 C350175		1,75	8,33	17,87 10,37	1810,26	103,96	12,09 13,21	127,93 75,6	13,86	2,08
C350173		2	9,52	11,84	2063,75	118,61	13,21	85,41	15,69	2,7
C350250	350	2,5	11,7	14,78	2562,24	147,47	13,17	104,11	19,21	2,65
C350230		3,2	14,98	18,81	3241,13	186,92	13,17	128,29	23,82	2,61
D400200		2	10,84	13,49	3113,87	156,48	15,19	136,8	20,37	3,18
D400250	400	2,5	13,35	16,84	3870,89	194,76	15,16	167,25	24,99	3,15
D400230	.50	3,2	17,09	21,47	4905,36	247,25	15,12	206,97	31,06	3,13
D450200		2	11,62	14,47	4130,87	184,41	16,9	137,87	20,31	3,09
D450250	450	2,5	14,33	18,07	5137,56	229,61	16,86	168,53	24,91	3,05
D450320		3,2	18,34	23,05	6514,9	291,62	16,81	208,51	30,97	3,01



Multibeam Cleats



Multibeam Cleats

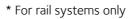


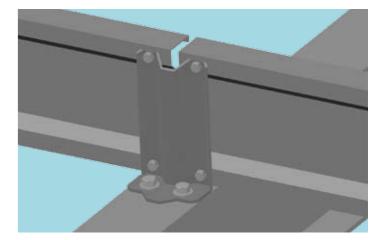
Bolt-on cleats are hot dip galvanized.

Weld-on cleats are black and without a base

References

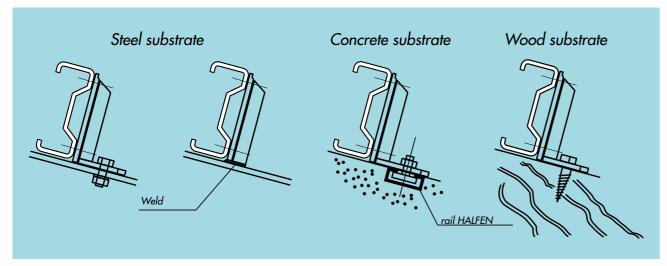
Purlin H	Weld-on ref.	Bolt-on ref.	Size X	H CD	Spa- cing	Stif- fener
120	CD12	CD12B	80	123	6	
140	CD14	CD14B	100	143	6	
170	CD17	CD17B	130	173	6	
200	CD20	CD20B	160	203	6	
230	CD23	CD23B	190	233	6	
260	CD26	CD26B	220	263	6	Χ*
300	CD30	CD30B	260	303	6	Χ*
320	CD32	CD32B	262	327	9	Χ
350	CD35	CD35B	292	357	9	Χ
400	CD40	CD40B	342	407	9	Χ
450	CD45	CD45B	392	457	9	Χ



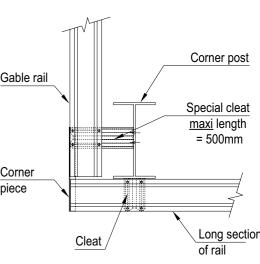


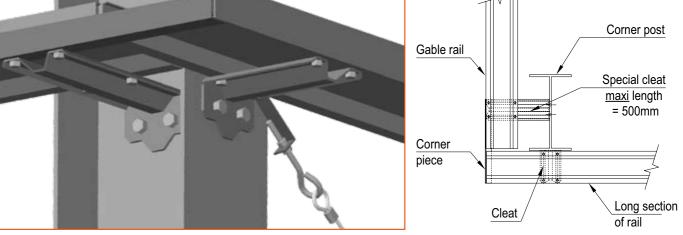


Different ways of fixing









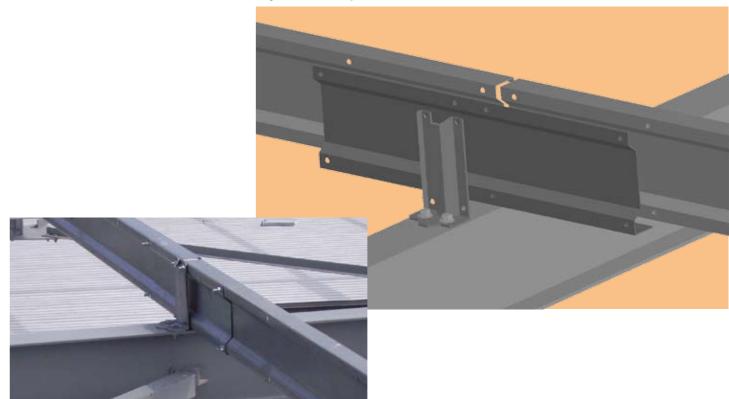


Multibeam Sleeves

Arval

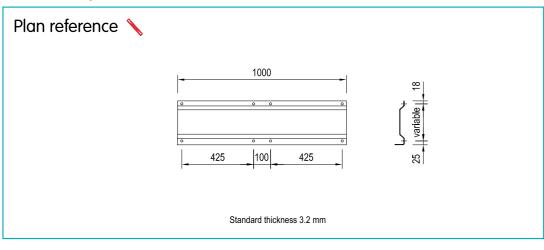
Multibeam Sleeves

The sleeves are designed to fit the contours of the profiles they assemble, thus ensuring continuity on bearing points and transforming the statically determinate purlin system into a continuous system of purlins over one or more bays. They can vary in length and in thickness, allowing them to adapt to all types of bays and loadings.



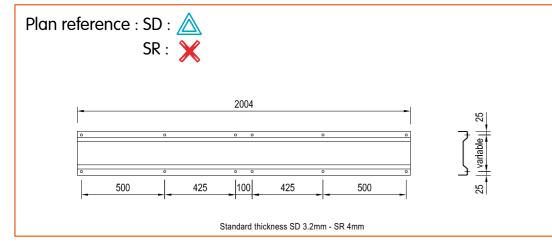


Sleeve Ø 14 punch holes



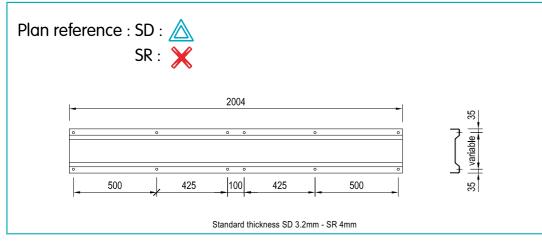
Type	Profile
SL14	B140
SL17	B170-A170
SL20	B200-A200
SL23	A230
SL26	A260-C260
SL30	C300

SD-SR Rail Ø 14 Drill



Туре	Profile
SD20 SR20	A200
SD23 SR23	A230
SD26 SR26	A260-C260
SD30 SR30	C300

SD-SR Rail Ø 18 Drill



Туре	Profile
SD32 SR32	C320
SD35 SR35	C350
SD40 SR40	D400
SD45 SR45	D450

Note: standard drilling, consult us for any other drilling.



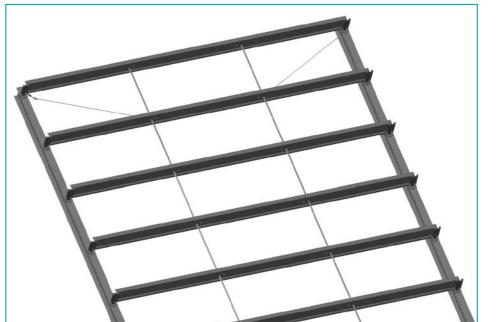
Multibeam Ties

jeu

Ridge tie

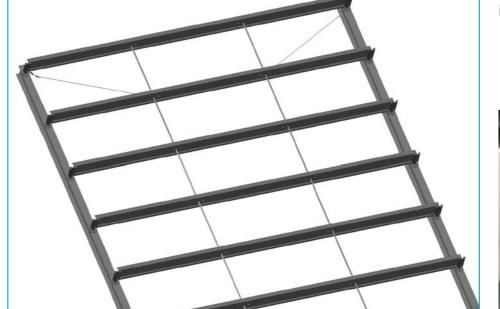
Multibeam Ties

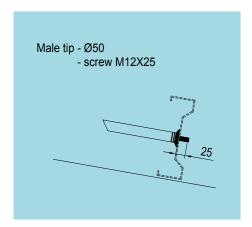
Tubular ties are designed and developed to ensure the stability of purlins, rails and joists in a simple and efficient manner. They can be screwed together without the use of tools.

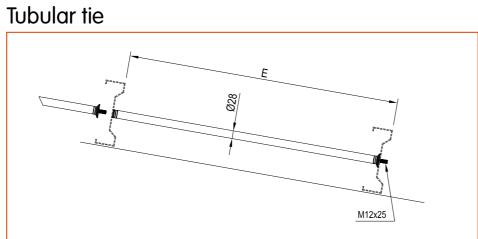


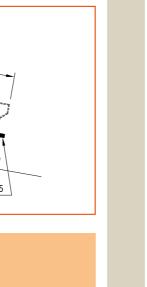
Ties placed over the ridge ensure the conjoining of ridge purlins, and even provide a "hard spot" in some instances.

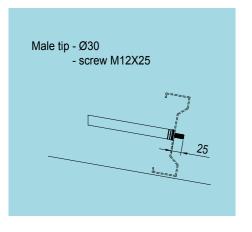


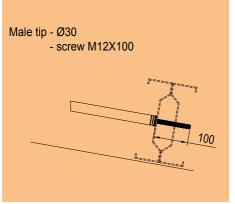


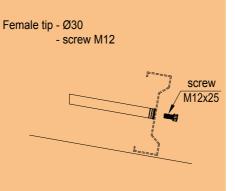




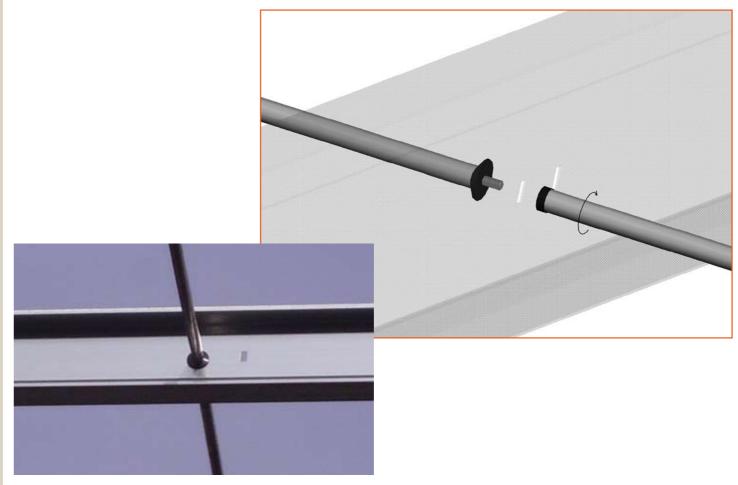








Threaded stem M12





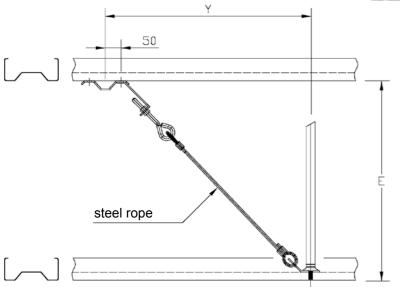
Multibeam Adjustable Tie

Arval Multibeam Overhangs and Cleader Rails

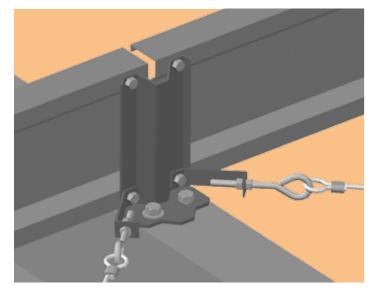
The linking system is composed of sag rods and/or adjustable tie rods. The latter are the "hard spots" of purlins, rails and joists. They ensure independent stability of the secondary structure.

They have adjusting possibilities which allow for quick and easy assembly.

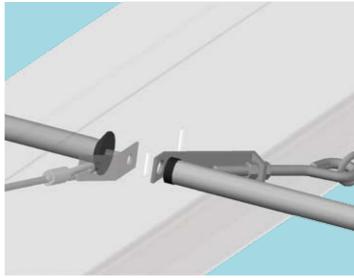




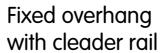


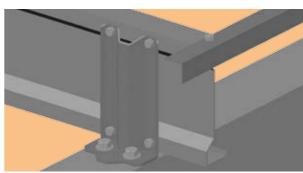




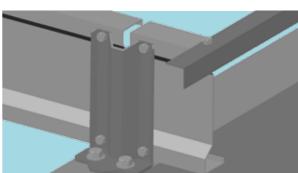


Fixing adjustable tie rods

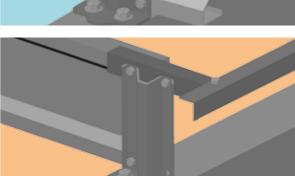


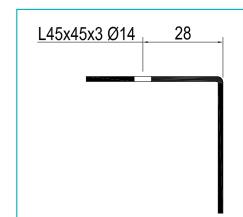


Removable purlin overhang with cleader rail

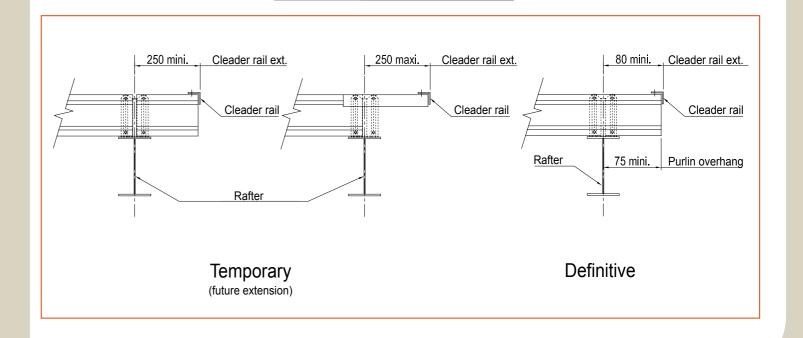


Removable corner bar overhang with cleader rail





Cleader rail

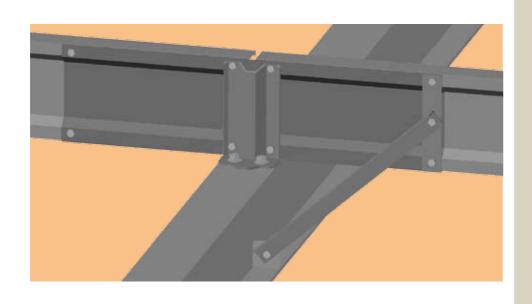




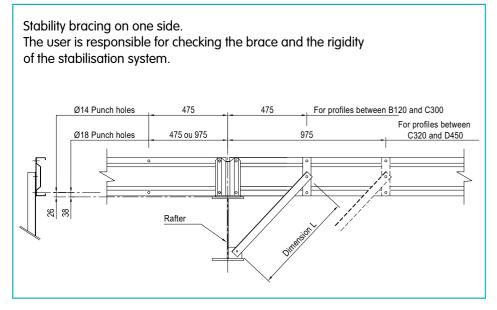
Multibeam Rafter Stays

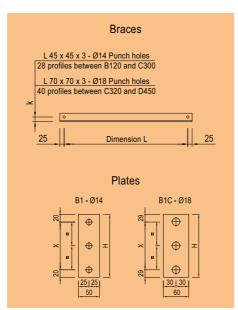


Arval Multibeam Standard Punch Holes

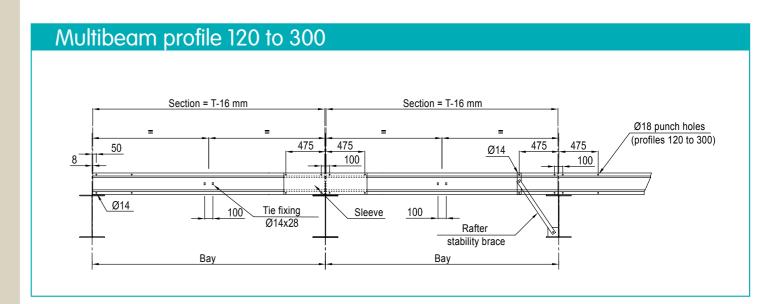


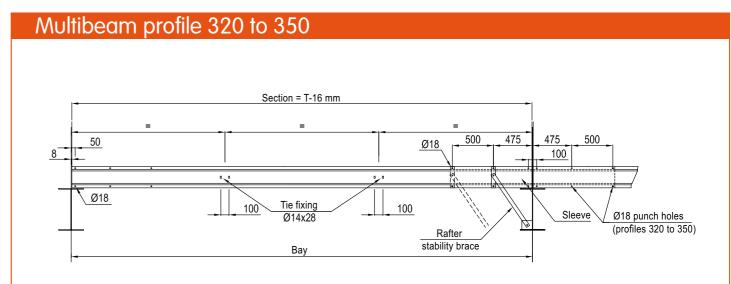
Rafter stability brace

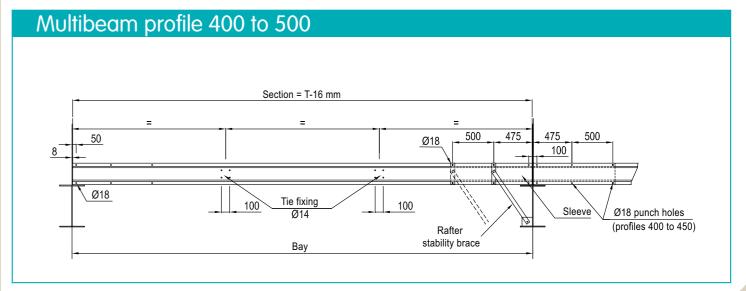










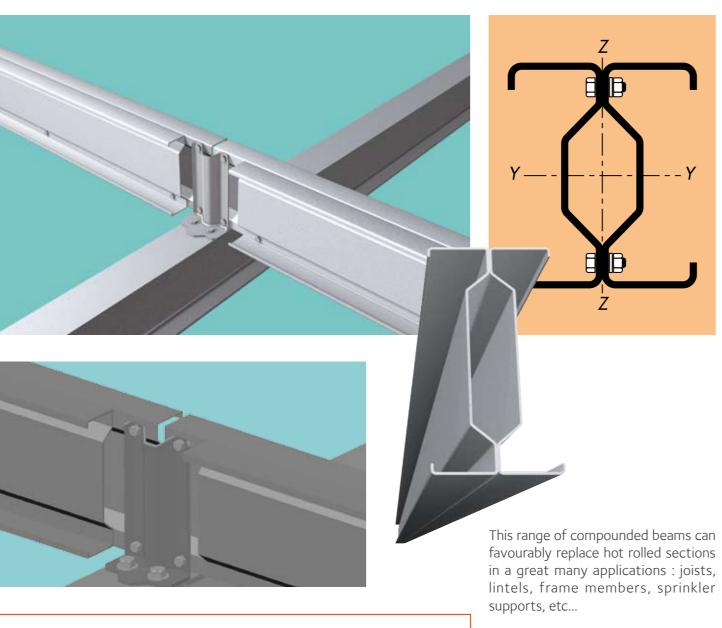




Multibeam Double Profile System



Multibeam Assembly Principles

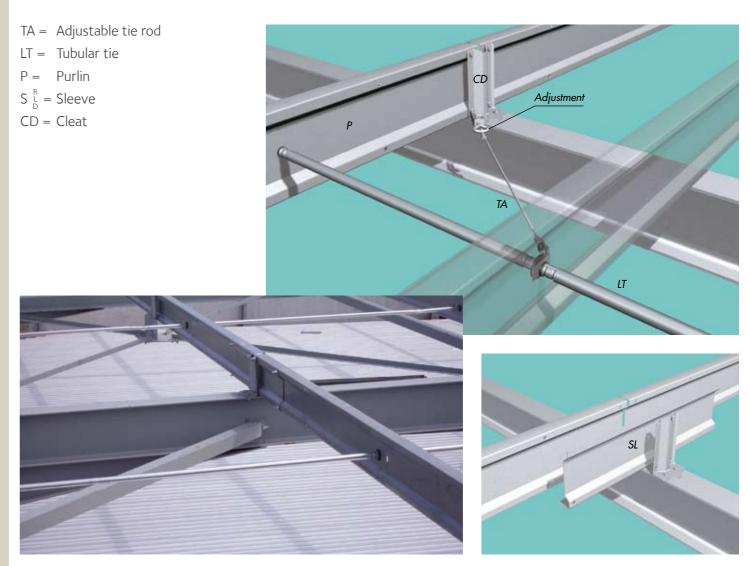


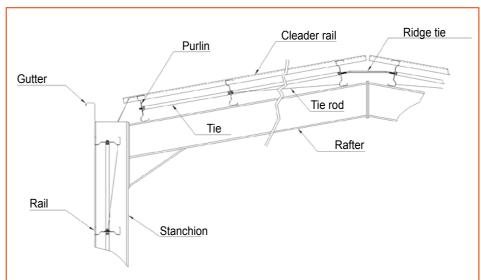
Fix every 100 mm approx

These compounded beams are much

lighter than their equivalent in hot rolled

They are easy to handle and are delivered complete with a galvanized finish and ready to install (bolts not provided).







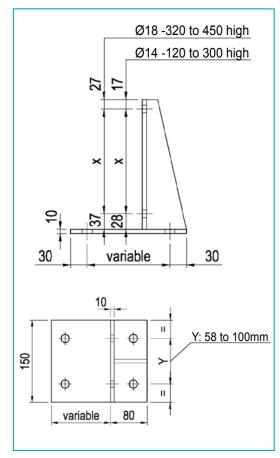
Multibeam Assembly Principles

Arval

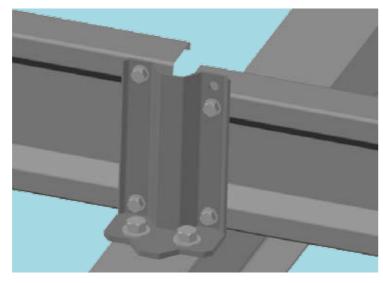
Multibeam Assembly Principles

Special cleats

Type 1 cleat to sustain compressive loads



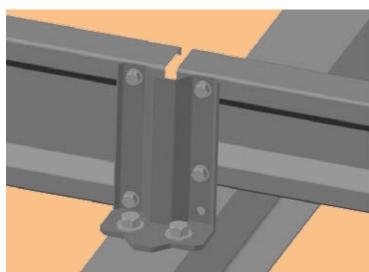
For discrepancy between different roof covering elements

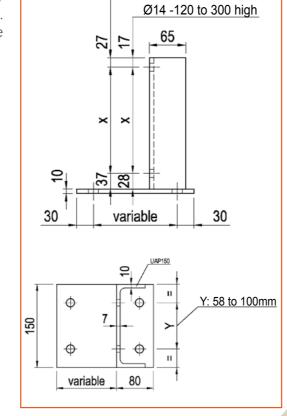


Type 2 cleat to sustain compressive loads.

Cleats are provided by Profil du Futur on request. (Consult us for the price and delivery time)

Cleat for different heights of profiles.

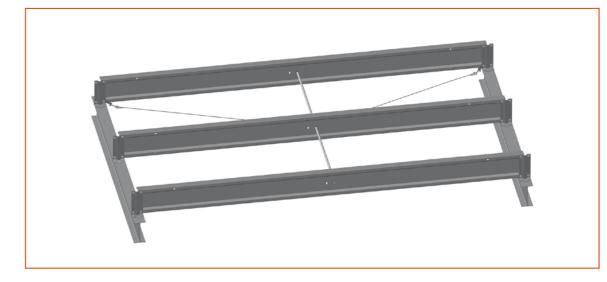




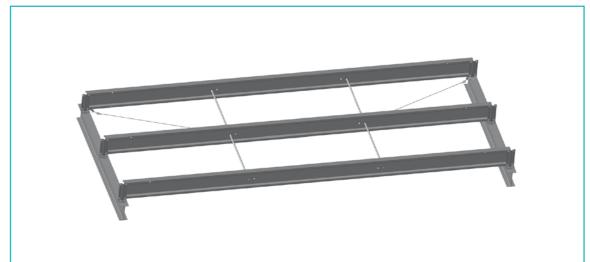
Ø18 -320 to 450 high

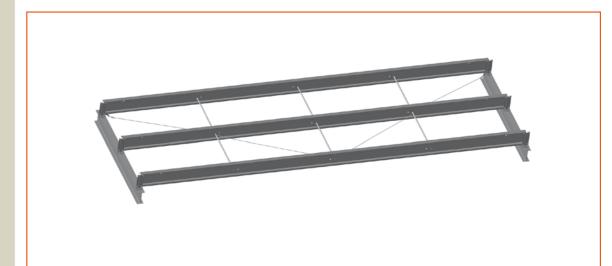
Multibeam rail, purlin and joist systems

1 row of ties



2 rows of ties





3 rows of ties



Multibeam Assembly Principles



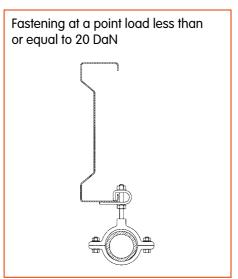
Multibeam Assembly Principles

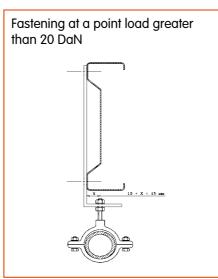
Multibeam rail and joist systems



Principles for fastening elements under the purlins

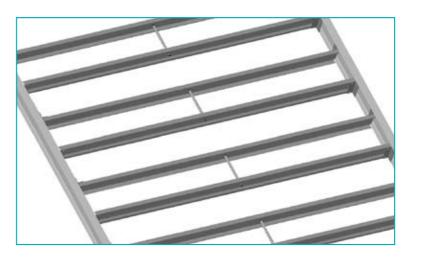
Specify loading when work is sized

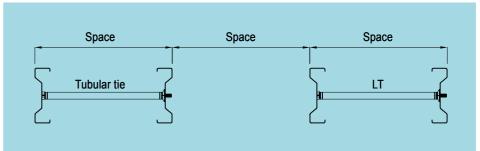




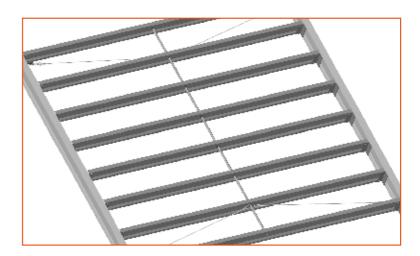
Floor with bracing

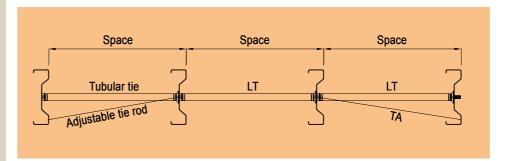
A simple, rapid and efficient solution for our floor system screwed onto joists





Support for false ceilings and for flooring without bracing





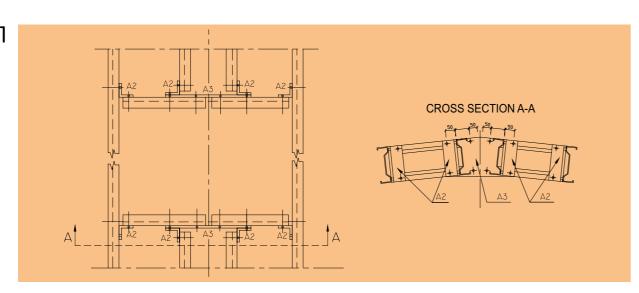


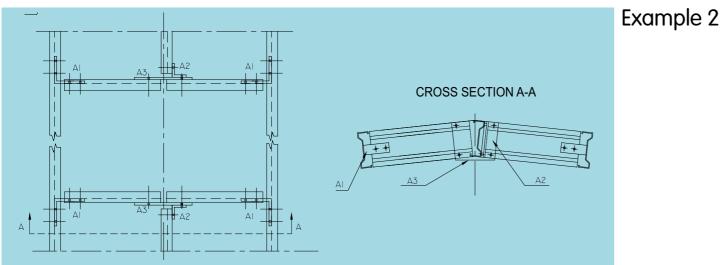
Multibeam Skylight Details

Arva

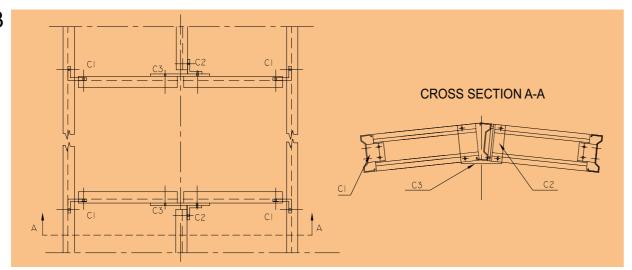
Multibeam Skylight Details

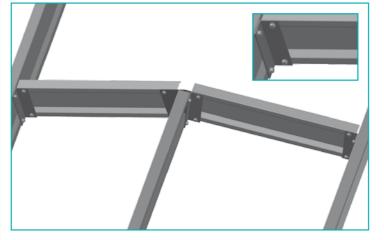
Example 1



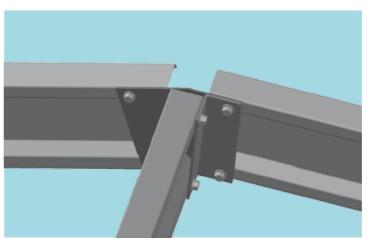


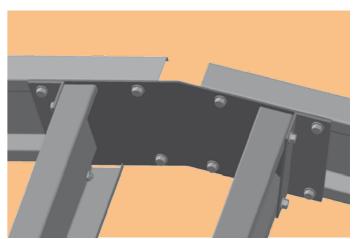
Example 3

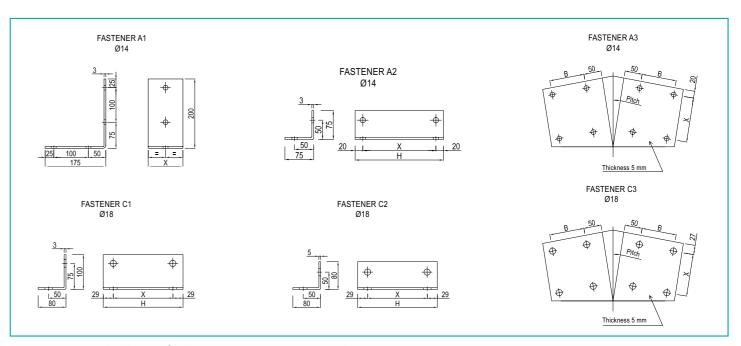












Fasteners provided by Profil du Futur on request : consult us



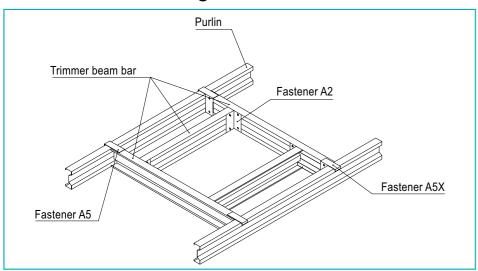
Multibeam Trimmer Details

Arval

Multibeam Trimmer Details

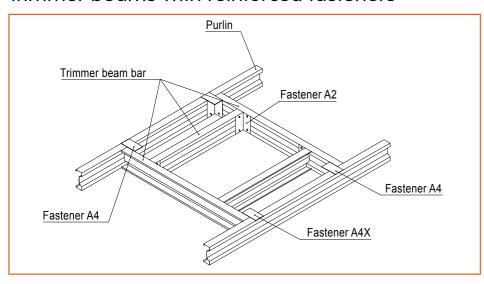
Sliding trimmer beam with 2, 3 or 4 branches

Trimmer beams for light domes



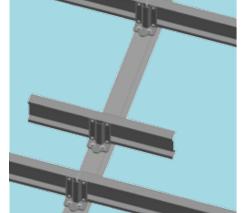
Note: please specify the loading the trimmer will need to sustain, as this determines the fasteners to be used.

Trimmer beams with reinforced fasteners

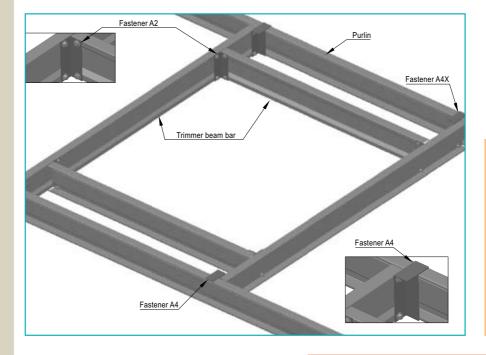


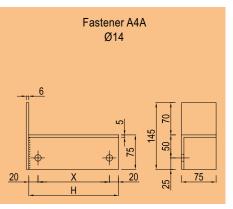


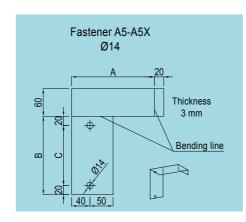
Downspout trimmer beam

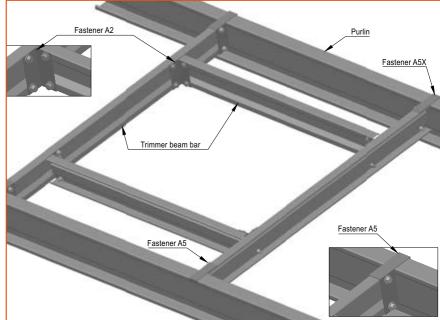


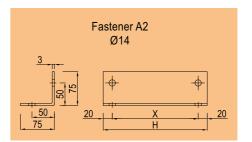














PSB

A no flashings solution

The PSB solution requires no flashings for screw-fixed steel roofing, cladding and flooring.

PSB is optimized with dimensions and calculations in compliance with Eurocode standards.

PSB is manufactured from Sedzimir processed galvanized steel (275 gr/m² double sided for standard applications and up to 600 gr/ m² double sided for special applications, coastal, aggressive environments...).

The guarantee of a 350 N/mm² yield stress contributes to the performance and quality of the profiles.

High performance

No cleats

Cost saving

Simple

No sag rods

No tie rods

The solution for bays up to 7m in length

Stable and symmetrical





PSB Purlin System

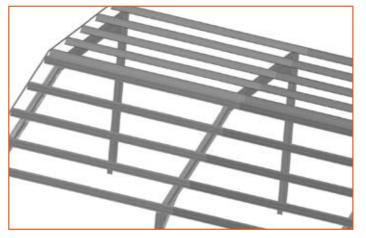
The PSB purlin system is specially suited to small bays (up to 7 metres long) and is the ideal solution for all kinds of buildings including those used for farming and industry.

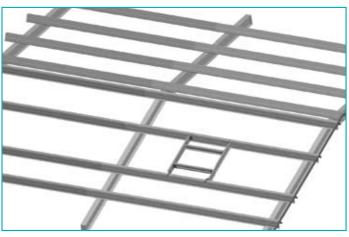
No flashings are required to assemble the system providing the roofing is screw-fixed and compositely acting.

Profile overlapping guarantees the continuity of the system since the profiles are fitted and secured on-site with self-tapping screws, supplied by Arval – Profil du Futur.

















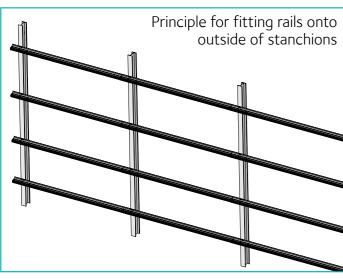


PSB Rail System



PSB Joist System

Properties regarding the strength of the PSB profile as well its simplicity and cost effectiveness are in the limelight when used to joist your new flooring, refurbishments, extensions and mezzanines.

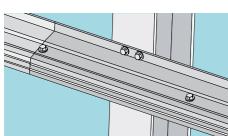




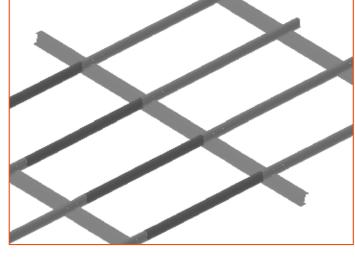
It allows for easy installation and is a rigid building system. The PSB profile can be erected both ways round thus adapting to all types of structures.



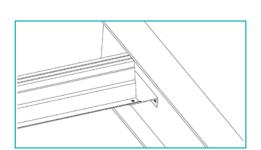




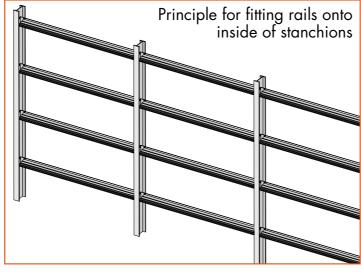


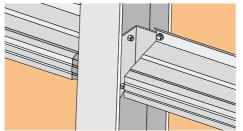


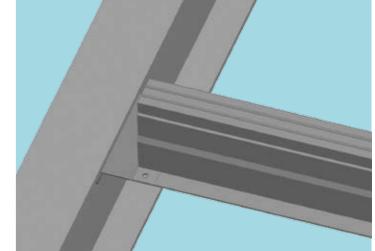


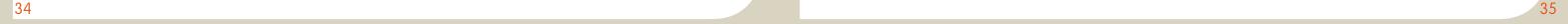












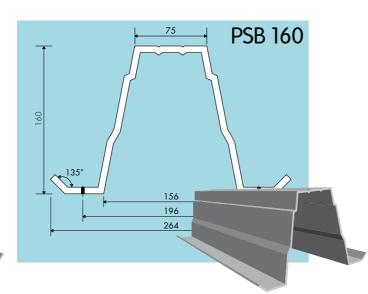


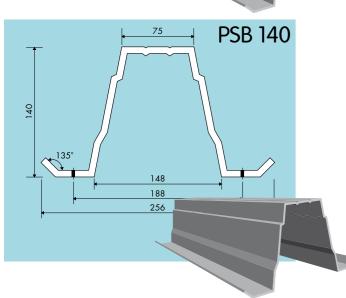
PSB Range

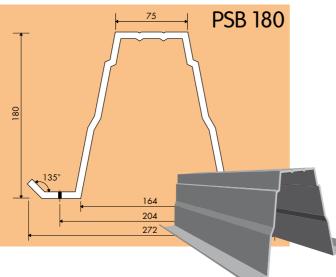
Arval

Cleader Rails and Punch Holes

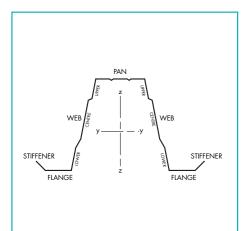
75 PSB 120





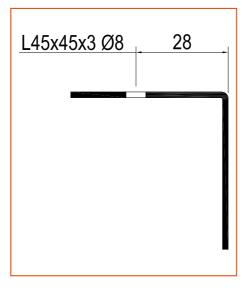


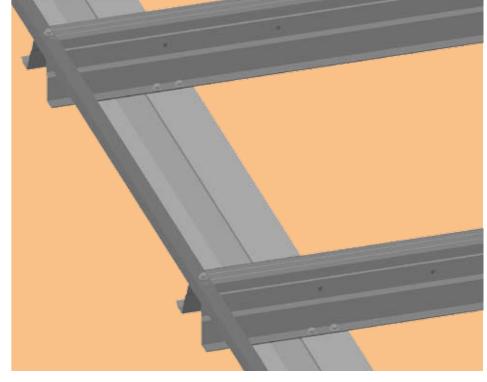
Gross mechanical properties



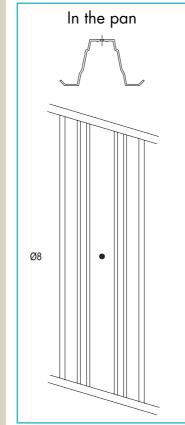
PROFILES	Thickness (mm)	Weight (daN/ml)	Area (mm²)	ly (cm ⁴)	Wymini (cm³)	ry (cm)	lz (cm⁴)	Wz (cm³)	rz (cm)
PSB 120	0,9	3,03	385,84	81,51	12,58	4,60	169,60	13,65	6,63
P3B 12U	1,2	4,08	519,62	109,26	16,85	4,59	227,75	18,34	6,62
PSB 140	0,9	3,30	420,88	117,35	15,64	5,28	195,98	15,30	6,82
P36 140	1,2	4,45	566,88	157,42	20,97	5,27	263,21	20,55	6,81
PSB 160	0,9	3,58	455,93	161,60	18,96	5,95	224,70	17,02	7,02
P3B 100	1,2	4,82	614,15	216,91	25,44	5,94	301,81	22,87	7,01
PSB 180	0,9	3,85	490,97	214,96	22,54	6,62	255,86	18,83	7,22
F3B 10U	1,2	5,19	661,42	288,68	30,25	6,61	343,70	25,30	7,21

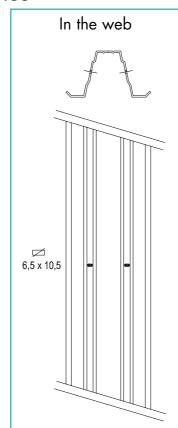
Cleader rails

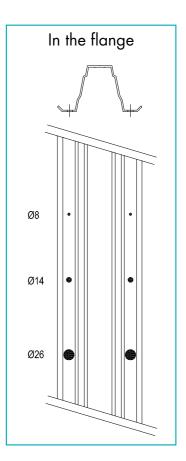




Standard punch holes







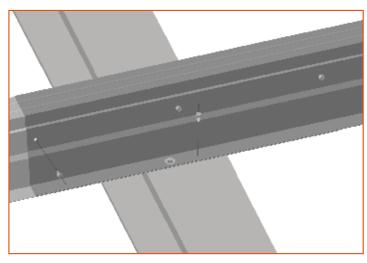


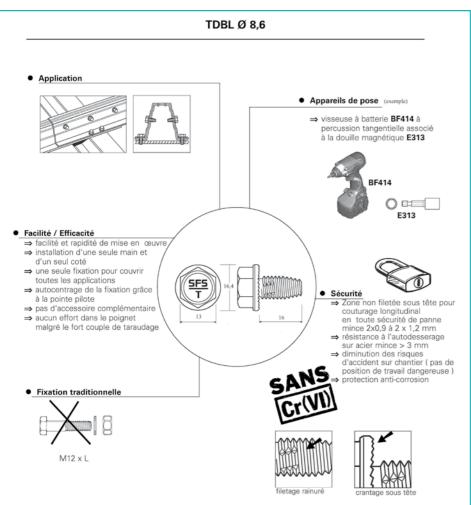
TDBL Screw for PSB

Arval

PSB Braces and Corner Detail

In order to enhance the simplicity of the system and its installation, Arval - Profil du Futur and SFS intec have developed and perfected a self-tapping screw, to improve on the standard bolt. It has as much strength and is five to seven times as fast to install. This screw has the following properties:





Screw: TDBL-T-8,6 x 1 6 mm

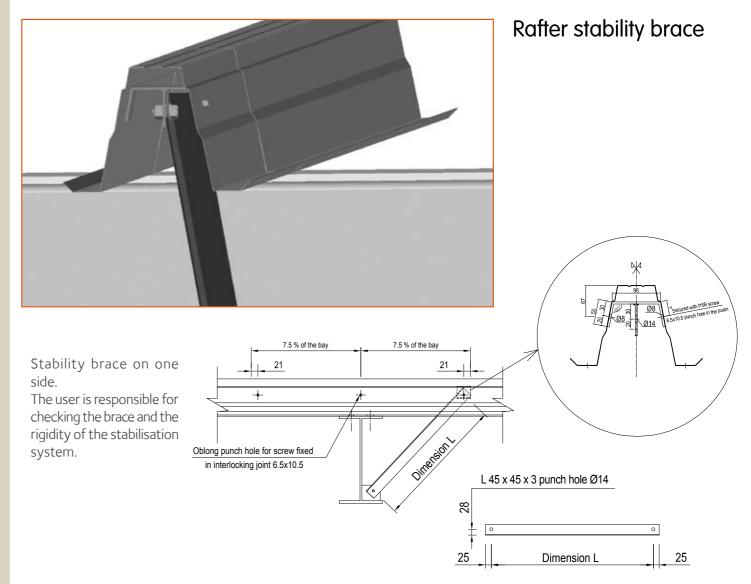
- 13 mm hex head on flat side
- Diameter of rod : d = 8.6 mm
- Length under head L = 16 mm

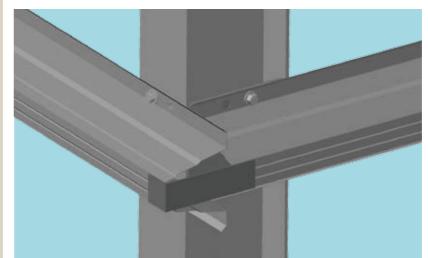
Pre-drilling:

- Ø 8 mm in rafters and stanchions
- Ø 6,5 x 10,5 mm in PSB purlins









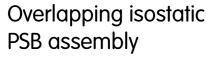


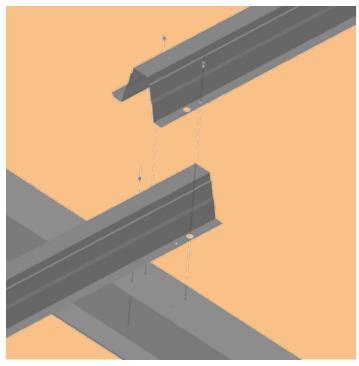
PSB Installation Principles

Arval

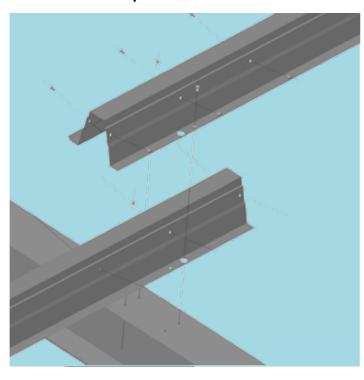
PSB Trimmer Beam Details

Sliding trimmer beams with 2, 3 or 4 branches





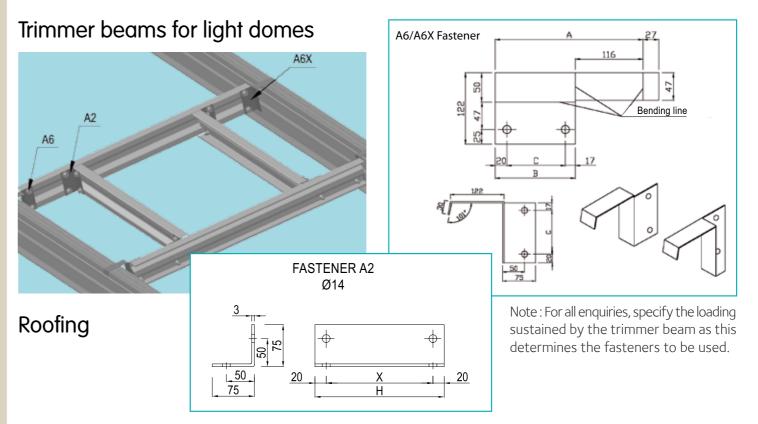
Continuous PSB assembly

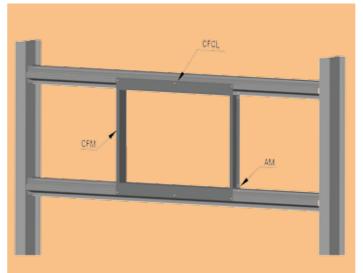






Principle for fastening elements without purlins. Specify loading when work is sized.





CFCL

29

Opening + 62 mm

29

AM

A

Period of the ight of opening

CFM

CFM

T

CFM

Façade

Façade trimmer beam fasteners

Profiles	Α	E	Н	В	С
PSB120	120	64	124	165	124
PSB140	140	84	144	169	144
PSB160	160	104	164	173	164
PSB180	180	124	184	178	184

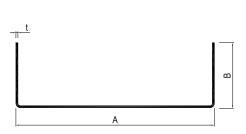


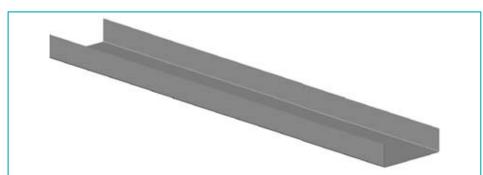
Additional Profiles

Additional Profiles

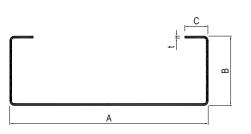
All additional profiles are manufactured from Sedzimir processed galvanized steel coils (275 g/m² double sided for standard use) with a minimum yield stress guaranteed at 350 N/mm²

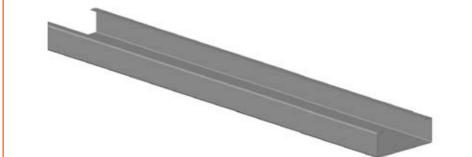
U Profile





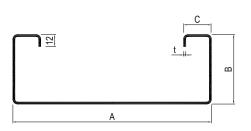
CE Profile

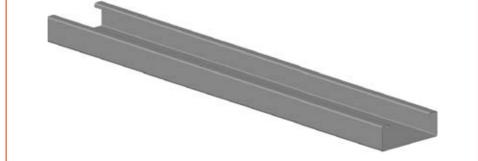




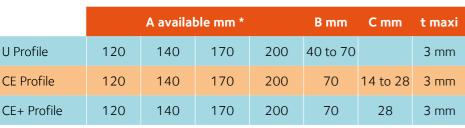
CE+ Profile

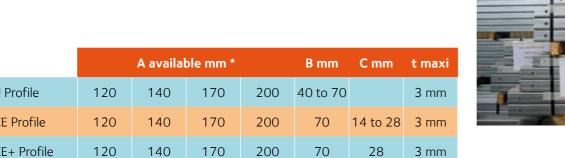
* Other heights on request

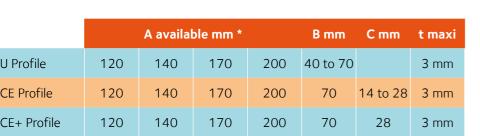


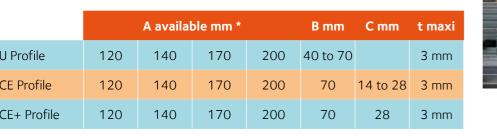


	A available mm *			B mm	C mm	t maxi	
U Profile	120	140	170	200	40 to 70		3 mm
CE Profile	120	140	170	200	70	14 to 28	3 mm
CE+ Profile	120	140	170	200	70	28	3 mm

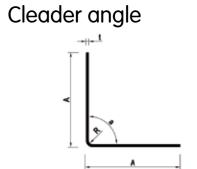


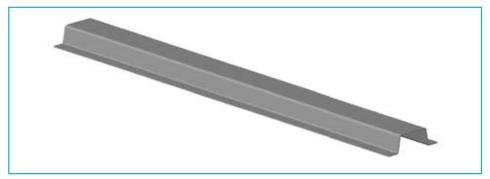


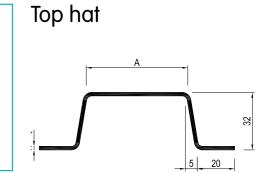






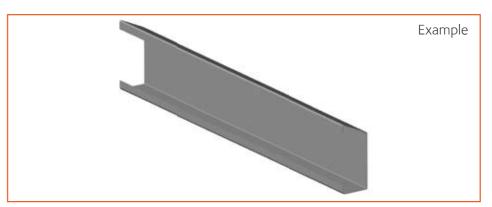






Eaves purlin

Maximum lengthwise bend 8 m Consult us





	A mm	t maxi
Cleader angle *	40 to 70	3 mm
Top hat	50 to 150	2 mm

^{*} Cleader angle with unequal legs, maximum length 8m.



Post-Painting

Arval

Examples of Applications

Description of post-painting operations

System: powder coating onto galvanised steel

SURFACE PREPARATION

APPLIED AUTOMATICALLY (PARKER tri-metal treatment)...

- Pickling
- Phosphate/degrease
- Chrome passivation
- Demineralised water rinse,
- Stoving.

APPLIED MANUALLY

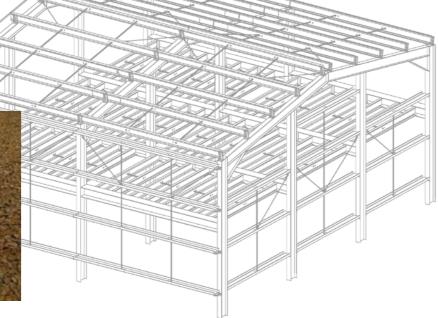
- Phosphate/degrease
- Water rinse,
- 1 layer of wash primer, PASSIREX primer or water-soluble primer, 1 0/1 5 μ thick,
- Stoving or ambient-drying.

COATING

APPLIED AUTOMATICALLY OR MANUALLY

• 1 layer of polyester powder with a QUALICOAT label, or industrial polyester, 60 µ thick.





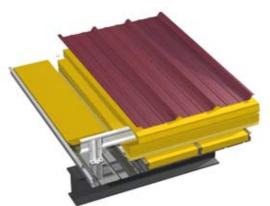








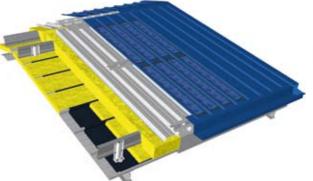
Acoustic and thermal complex



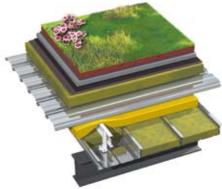
Acoustic complex and structure



Hairaqua and structure



Arsolar and structure



Vegetated roofing and structure



Standard price enquiry

	Profil du Futur 8 rue de Fortschwihr F-68180 Horbourg-Wihr
pany:	Tel:
'ess:	Fax:

Tel.: +33 (0)3 89 20 77 00
Fax: +33 (0)3 89 20 77 01
E-mail: profil@profildufutur.com

Company:	Tel:	Date:	
Address:	Fax:	Contact:	
	E-mail:		
Building reference:	ding reference: Location:		
Diagram:	Building: type	slope(s)	
	Pitch:	_%	
	Long:	m in bay(s) m	
		bay(s) m	
	Wide:	m in hall(s) de m	
	Height: Eaves p	ourlinm	
	Ridge p	urlin m	
Weather loading:			
Snow: Accumulation: \	/es - no type	Wind:	
Permeability of long sections: % F			
Purlin system:			
Type of roofing:	daN/m	2	
Type of insulation – on roof:			
Extra loads:			
Compression sustained by the purlins:	(daN non weighted)	Purlins between-on portal frames	
Rail system:			
Type of cladding:	daN/m	2	
Long side: number: length:	m in bays of n	n Space between rails: mm	
	in bays of n	Rails between – on stanchions	
Gables: number: length:	m in bays of n	Space between rails: mm	
	in bays of n	Rails between – on stanchions	
Joist system:			
Type of flooring:	daN/m	² Compositely acting and screw fixed: yes-no	
Extra Loads:	daN/m	Deflection: 1 /	
Space between joists:	mm	Joists between – on bars	
Miscellaneous:			
Cleader rails: ml	Sliding trimmer beams:	u Others:	
Braces + plates: u	Downspout trimmer beams:	u	



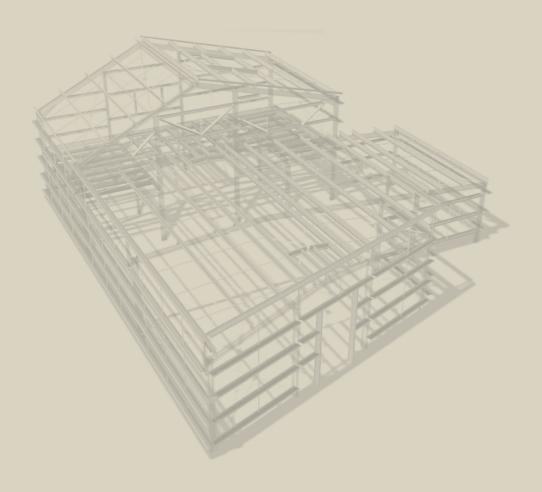
Notes

specifications described in this guide, without prior notice.

"The photos and illustrations are not contractually binding".

Price to be quoted on:





Arval

Profil du Futur

8 rue de Fortschwihr F-68180 Horbourg-Wihr Tel.: +33 (0)3 89 20 77 00

Fax: +33 (0)3 89 20 77 01 www.arval-construction.fr e-mail: profil@profildufutur.com