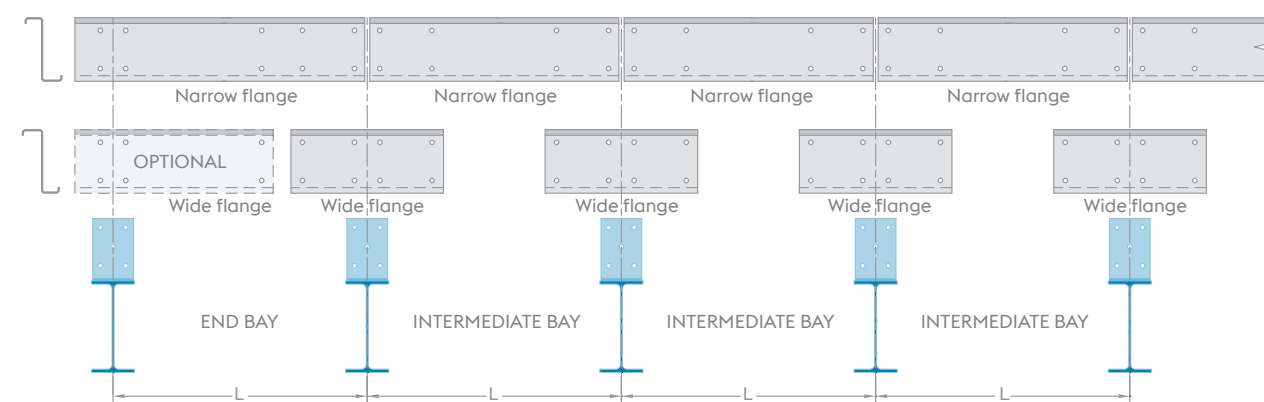
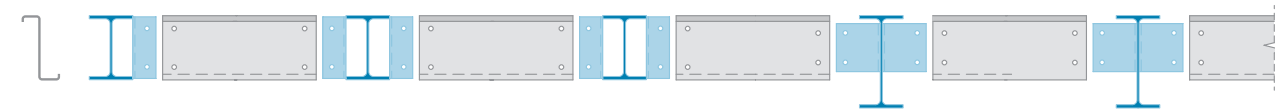


# ROOF PURLINS & SIDE RAILS

## SLEEVE BEAM



## SINGLE SPAN BEAMS (ASSEMBLY BETWEEN SPANS)



# SURFACE TREATMENT

### A. STANDARD PREGALVANISING (EN10.346) (Continuous hot dip galvanised coil)

- Galvanised before rollforming
- Z275 (275 gr. zinc/m<sup>2</sup> - average 19 micron Zn coating)

### B. OPTIONS: ON REQUEST

- Alternative Zn-coatings up to Z1000 available on request (average 70 micron Zn coating)
- Coating of strip edges can be arranged if required
- Alternative ZnMg-coatings (average 24 micron ZnMg coating)

### C. HOT DIP GALVANISING (EN-ISO 1461): ON REQUEST

- After rollforming of pickled material profiles can be galvanised by dipping in zinc bath
- Minimum coating to EN-ISO 1461: see table below

AVERAGE MINIMUM COATING (EN-ISO 1461)	
Steel thickness	Mean coating thickness (minimum) µm
steel > 6 mm	85 µm
3 mm < steel ≤ 6 mm	70 µm
1,5 mm ≤ steel ≤ 3 mm	55 µm

#### HEADQUARTERS:

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 sadeF.bouw@voestalpine.com  
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#### REPRESENTATIVE OFFICES:

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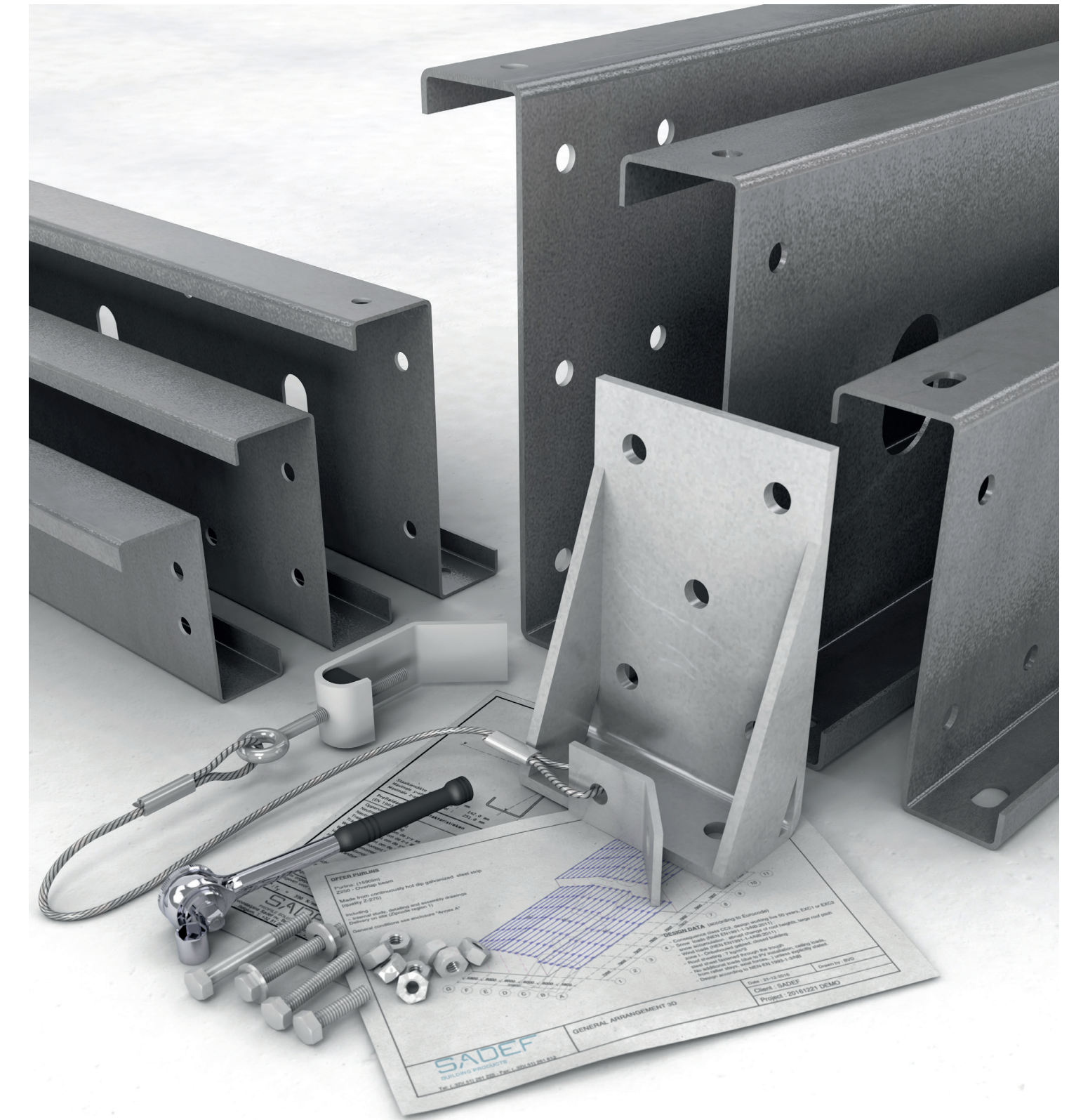
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# ZED SECTIONS RANGE

voestalpine SadeF nv

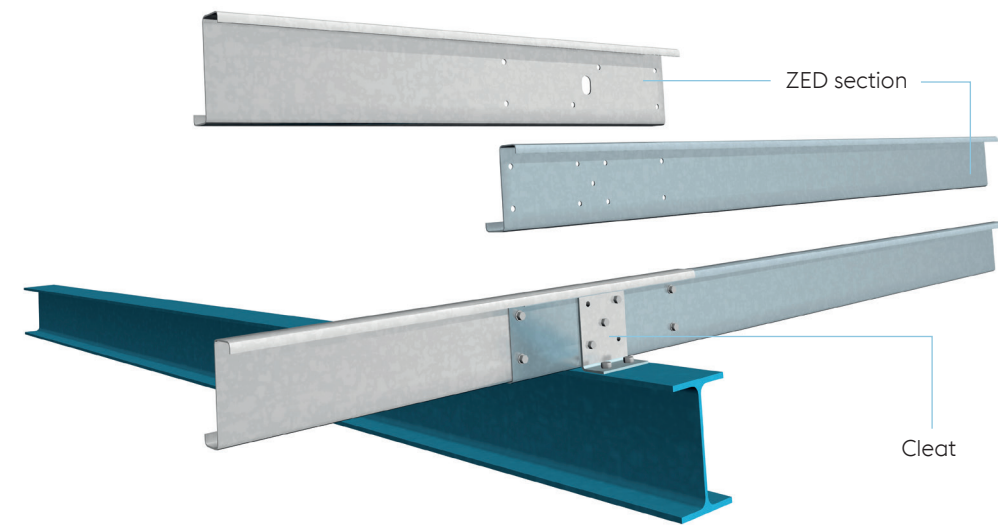
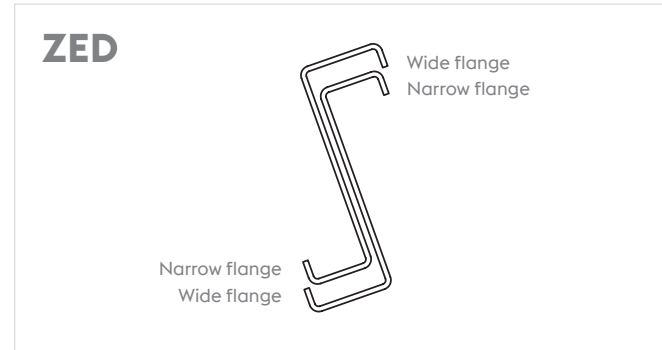
voestalpine  
 ONE STEP AHEAD.

voestalpine  
 ONE STEP AHEAD.

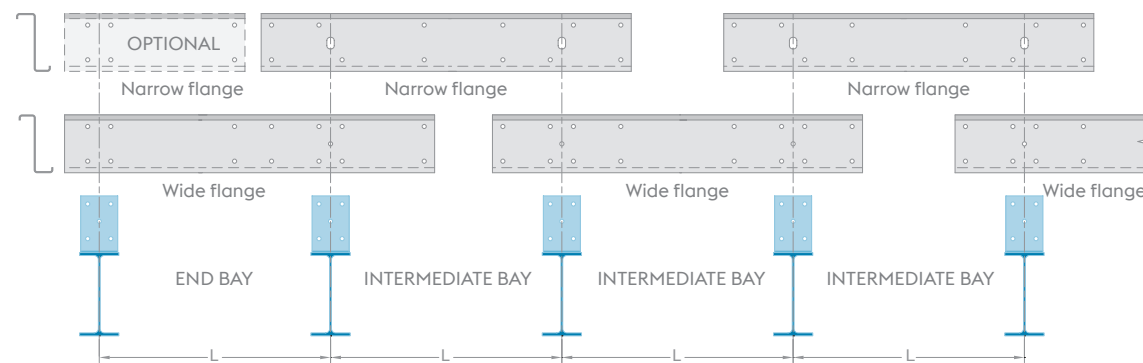
# ROOF PURLINS & SIDE RAILS

voestalpine Sadef offers you a wide range of ZED sections for spans up to 18 m. The sections are suitable for any substructure. The shape of the ZED section allows us to nest the sections, and to create an optimal beam system.

voestalpine Sadef ZED sections can be used as single span beams, double span beams or as a continuous beam. The optimal beam system is, in most cases, a continuous overlap beam. ZED sections are the best solution for projects with a bigger roof slope. voestalpine Sadef will be pleased to advise you.



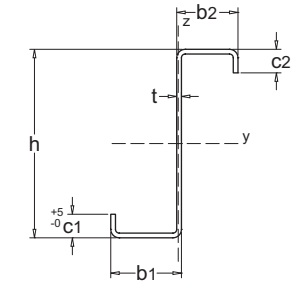
## OVERLAP BEAM WITH QA-SYSTEM



- » Nesting narrow flange inside wide flange creates an overlap.
- » Nesting of beams results in a double section at intermediate beam supports (where loads are to be transferred) thus ensuring that the material is used to its optimum efficiency.
- » Several possibilities for optimizing the beam system: adjust the overlap length (between 5 and 15% of the span), use heavier beams or a double 'nested' beam on end bays. (see OPTION)
- » Faster and safer assembly is achieved using the QA-system.

# SECTION PROPERTIES

Effective section properties: on demand  
Base material: S390 GD +pregalvanised Z275 (Following EN 10.346)  
\*S350GD + pregalvanised Z275 (Following EN 10.346)  
Alternative grades or coating available on request.

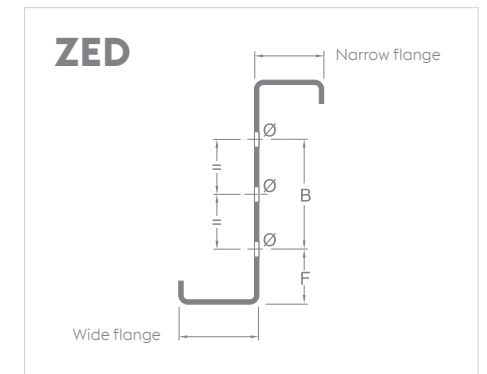


SECTION										GROSS CROSS SECTION PROPERTIES					
Section Type	Section name	h (mm)	b <sub>1</sub> (mm)	c <sub>1</sub> (mm)	b <sub>2</sub> (mm)	c <sub>2</sub> (mm)	t (mm)	G (kg/m)	A <sub>point</sub> (m <sup>2</sup> /m)	A (cm <sup>2</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>z</sub> (cm <sup>4</sup> )	W <sub>z</sub> (cm <sup>3</sup> )	
Z 375	Z 375x5*	379	103	28	88	28	5,00	23,11	1,20	29,20	5766	300,7	421,8	44,33	
	Z 375x4	377	96		88		4,00	18,54		23,38	4597	243,2	330,5	36,53	
	Z 375x3	376	95	30	87		3,00	13,99		17,61	3478	184,0	253,1	27,97	
	Z 375x2,5	375	94		86	30	2,50	11,66		14,66	2897	153,0	209,5	23,29	
	Z 375x2	375	94		86		2,00	9,38		11,73	2325	123,0	170,9	18,90	
Z 350	Z 350x4	352	96		88		4,00	17,75	1,15	22,39	3895	220,7	330,5	36,55	
	Z 350x3,5	351	95		87		3,50	15,56		19,61	3415	193,5	288,2	32,05	
	Z 350x3	351	95	30	87	30	3,00	13,40		16,87	2947	167,0	253,0	27,99	
	Z 350x2,5	350	94		86		2,50	11,18		14,04	2455	139,1	209,5	23,30	
	Z 350x2	350	94		86		2,00	8,98		11,24	1971	111,7	170,9	18,91	
Z 300	Z 300x5*	304	103		88		5,00	20,32	1,04	25,68	3421	222,4	437,7	46,21	
	Z 300x4	302	96		88		4,00	16,18		20,41	2698	178,3	330,4	36,61	
	Z 300x3,5	301	95		87		3,50	14,18		17,88	2365	156,3	288,1	32,10	
	Z 300x3	301	95	30	87	30	3,00	12,22		15,39	2043	135,0	253,0	28,03	
	Z 300x2,5	300	94		86		2,50	10,20		12,81	1702	112,5	209,5	23,34	
Z 250	Z 250x4	253	81	23			27,5	4,00	0,84	16,74	1524	119,6	173,9	22,75	
	Z 250x3,5		80	22			26	3,50		14,64	1340	105,1	149,6	19,67	
	Z 250x3			22,5			26	3,00		12,50	1133	90,0	125,8	16,97	
	Z 250x2,5			21			24	2,50		10,39	948	75,1	103,6	13,92	
	Z 250x2	251	77		20	68		2,00		8,29	761	60,0	82,3	11,01	
Z 230	Z 230x3								0,79	7,23	666	52,5	71,5	9,54	
	Z 230x2,5	231	72				21,5	1,75		6,18	570	45,0	60,8	8,08	
	Z 230x2						21	1,50		5,78	453	38,8	52,5	7,48	
	Z 230x1,5						20	1,25		5,18	313	30,8	43,6	6,50	
	Z 230x1,5						20	1,50		4,17	238	26,2	38,6	5,98	
Z 200	Z 200x4	203	72	22,5	61	26	4,00	11,14	0,71	14,05	833	81,7	125,3	18,56	
	Z 200x3		71	22	61	22	3,00	8,36		10,50	622	61,1	93,4	13,92	
	Z 200x2,5			21			22	2,50		8,72	519	51,0	74,6	11,31	
	Z 200x2	201	69				21	2,00		6,96	417	41,0	59,1	8,88	
	Z 200x1,75			18,5			20	1,75		6,07	365	35,9	51,4	7,71	
Z 180	Z 180x1,5			17			20	1,50	5,18	313	30,8	43,6	6,50		
	Z 180x2,5			18			21	2,50	8,06	394	43,6	66,1	10,36		
	Z 180x2			17			19	2,00	6,43	317	35,0	52,4	8,18		
	Z 180x1,75	181	66	16	60	18,5	1,75	4,49	5,61	278	30,6	45,5	7,08		
	Z 180x1,5			15			18	1,50	4,79	238	26,2	38,6	5,98		
Z 140	Z 180x1,25			14,5			17	1,25	3,96	198	21,7	31,8	4,92		
	Z 140x2,5			19			21,5	2,50	6,86	208	29,6	54,3	9,26		
	Z 140x2			19			22	2,00	5,54	170	24,1	45,2	7,64		
	Z 140x1,75	141	61	19	55	21	1,75	3,88	4,85	149	21,1	39,7	6,69		
	Z 140x1,5			18			20	1,50	4,13	128	18,1	33,5	5,64		
Z 140x1,25			19,5			21	1,25	3,47	108	15,2	29,2	4,90			

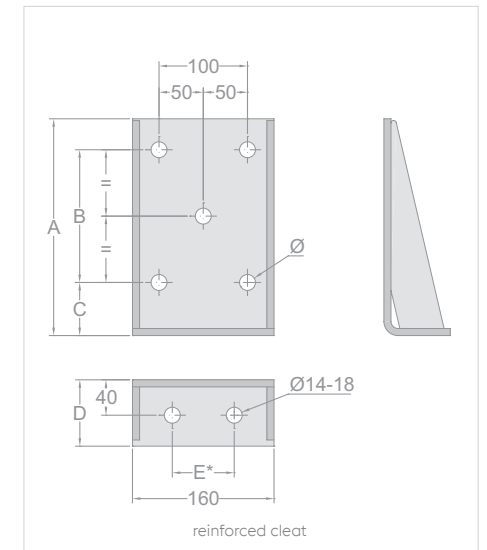
# CLEATS

Depending on the substructure geometry either standard (EZED) or reinforced (EZEDXX) cleats can be used. Both types are suitable for the QA-system.

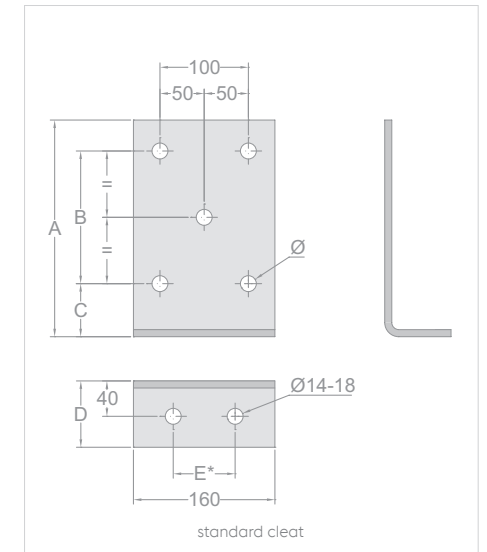
ZED - CLEATS							
Type	Section name	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Ø (mm)
EZED375XX	Z 375x5	365	265	65	85	60,0	18
	Z 375x4					58,0	
	Z 375x3					57,5	
	Z 375x2,5					57,0	
	Z 375x2					56,5	
EZED350XX	Z 350x4	340	240	65	85	58,0	18
	Z 350x3,5					58,0	
	Z 350x3					57,5	
	Z 350x2,5					57,0	
	Z 350x2					56,5	
EZED300XX	Z 300x5	290	190	65	85	59,5	18
	Z 300x4					58,0	
	Z 300x3,5					58,0	
	Z 300x3					58,0	
	Z 300x2,5					57,0	
EZED250 EZED250XX	Z 250x4	245	150	60	75	53,0	18
	Z 250x3,5					53,0	
	Z 250x3					52,0	
	Z 250x2,5					52,0	
	Z 250x2					51,5	
EZED230 EZED230XX	Z 230x2,5	225	130	60	75	52,0	18
	Z 230x2					51,5	
	Z 230x1,75					51,5	
	Z 230x1,5					51,5	
	Z 230x1,5					51,5	
EZED200 EZED200XX	Z 200x4	195	100	60	75	54,0	14
	Z 200x3					52,0	
	Z 200x2,5					51,5	
	Z 200x2					51,5	
	Z 200x1,75					51,5	
EZED180 EZED180XX	Z 180x2,5	176	81,5	60	75	51,0	14
	Z 180x2					51,0	
	Z 180x1,75					51,0	
	Z 180x1,5					51,0	
	Z 180x1,25					51,0	
EZED140 EZED140XX	Z 140x2,5	135	60	50	75	41,5	14
	Z 140x2					41,5	
	Z 140x1,75					41,5	
	Z 140x1,5					41,5	
	Z 140x1,25					41,5	



## TYPE EZEDXX



## TYPE EZED



Piercing pattern is symmetrical in the bottom of the cleats.  
For alternative piercing patterns: please contact voestalpine Sadef.  
E\*: Hole distance variable from 50 to 100 mm with 70 mm (Ø 18 mm) as standard.

To avoid any misunderstanding none of these sections are on stock. Please contact our sales people to agree on volume and delivery time.