WIND LOAD = 150 KG/CM^2, Fy=240N/MM^2
YIELD STRESS OF ZINCALUME SHEET = 5500 KG/CM^2
YIELD STRESS OF A.C SHEET & COLOUR COATED = 2400 KG/CM^2
SLOPE 10 DEG TO 14 DEG

SPAN	AS SHEET ROOFING	COLOUR COATED ROOFINGS	ZINCALUME ROOFING	SAG RODS
IN MM	(AT 1.4 M)	(AT 1.60 M)	(AT 1.80 M)	(AT 1.4 M)
4.5	Z180 X 2.0	Z180 X 2.0	Z180 X 2.0	NIL
5.0	Z180 X 2.0	Z180 X 2.0	Z180 X 2.0	NIL
5.5	Z200 X 2.0	Z200 X 2.0	Z200 X 2.0	NIL
6.0	Z200 x 2.3	Z200 X 2.3	Z200 X 2.3	1 NO
6.5	Z200 x 2.3	Z230 x 2.0	Z230 x 2.0	1 NO
7.0	Z230 x 2.3	Z230 x 2.5	Z230 x 2.3	1 NO
7.5	Z230 x 2.5	Z230 x 2.5	Z230 x 2.5	1 NO
8.0	Z250 x 2.3	Z250 x 2.3	Z250 x 2.3	2 NO
8.5	Z250 x 2.5	Z250 x 2.5	Z250 x 2.5	2 NO

TECHNICAL SPECIFIACTIONS OF 'Z' AND 'C'						
Purlin DEPTH 'D'	Thickness (t)	Mass (Kg/M)	ZED PURLIN		CEE PURLIN	
			F	L	F	L
160	2.00	4.82	60	20	60	20
160	2.30	5.54	60	20	60	20
160	2.55	6.15	60	20	60	20
200	2.00	5.44	60	20	60	20
200	2.30	6.27	60	20	60	20
200	2.55	6.95	60	20	60	20
230	2.00	5.92	60	20	60	20
230	2.30	6.87	60	20	60	20
230	2.55	7.55	60	20	60	20
250	2.00	6.23	60	20	60	20

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Hosur/Tamilnadu - Unit 1
PEB/Continuous Sandwich Puf Panel Production Line
Survey no.162,163,164/2,&167,
Kalukondapalli Village,Thally Road,
Hosur - 635114.

Bengaluru/Karnataka - Unit 2
Steel Rofing Production Line
65/9-10, N.R. Road
Bengaluru - 560 027

Pune/Maharashtra - Unit 3
Steel Purlin/Steel Decking/ Steel Roofing Production Line
Gat No.262, Alandi Phata,
Opp. Hotel Gandharva,
Nanekarwadi, Chakan,
Pune- 410501

Harohalli/Karnataka - Unit 4
Clean Room Wall And Ceiling Panel/Cold Storage/ Clean Rooms Doors & Steel Doors Production line
Plot NO. 345, Harohalli II
Phase Ind. Area, Harohalli
Kanakapura Taluk,
Ramanagar Dist, PIN - 562112.

Ahmedabad/Gujarat Unit 5
All Types of Continuous Sandwich Puf Panel Production Line.
Survey NO. 192, Paikki khata No 254 and survey No 212 Paikki 2
village chancharvadi, Taluka: Sanand, District: Ahmedabad - 382213

Branch offices :

Bengaluru Marketing office
43/41, Nanjappa Layout
Stonart Building, 3rd Floor,
Audugodi, Bengaluru
Karnataka 560 030

Hyderabad
18305 D, Minister Road,
Secunderabad - 500 003.

Chennai
7, 1st Floor, Alsa Mall, No.149,
Montieth Road, Egmore,
Chennai - 600008.

Kochi
48/1775, Geethanjali Junction
Near Vyttila, Cochin - 682 019

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Toll-free No: 1800 103 9242

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ALFA PEB LIMITED

Alfaa™
PRE ENGINEERED BUILDING
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The Modern CONSTRUCTION™ Solutions

Z and C Cold Rolled Formed Section
Purlin & Girt



INTRODUCTION

Purlins, girts and eave struts are secondary structural members used to support the wall and roof panels. Purlins are used on the roof, girts are used on the walls and eave struts at the intersection of the sidewall and the roof.

Secondary members have two other functions: they act as struts that help in resisting part of the longitudinal loads that are applied on the building such as wind and earthquake loads, and they provide lateral bracing to the compression flanges of the main frame members thereby increasing frame capacity.

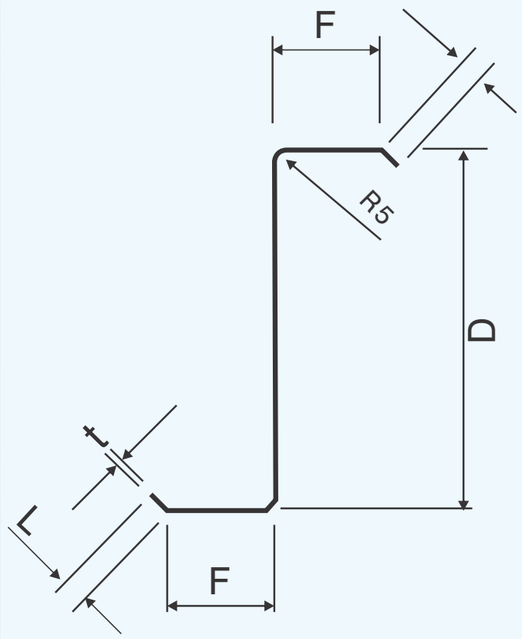
Purlins, girts and cave struts are designed in accordance of the American Iron and Steel Institute (AISI), “Cold-Formed Steel Design Manual”.

Purlins, girts and eave struts are available in two standard surface finishes i.e. MS & Galvanized and three standard thicknesses as shown in the table:

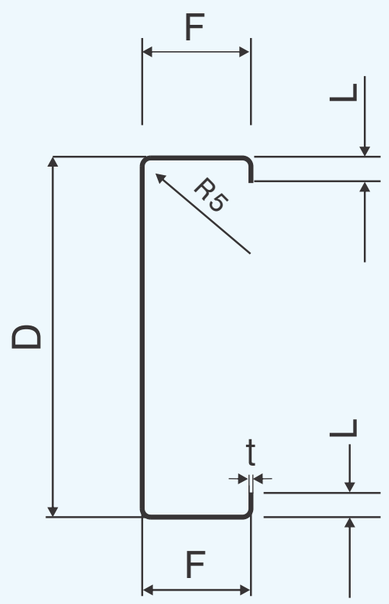
Galvanized finish can be made available upon request and subject to extended delivery Galvanized finish for secondary members is available only in thickness ranging from 1.5 mm to 2.0 mm.

Roof and wall panels are laid perpendicular to the roof purlins and wall girts, respectively, and fastened to them by means of self drilling fasteners.

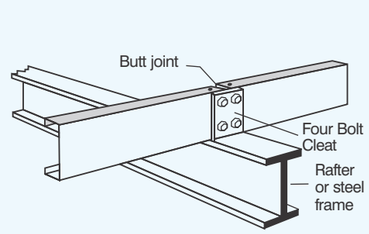
‘ Z ’ Purlin

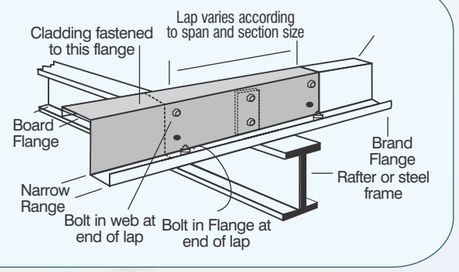


‘ C ’ Purlin

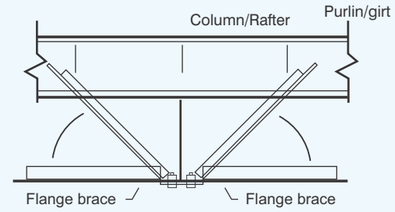


Typical Connection

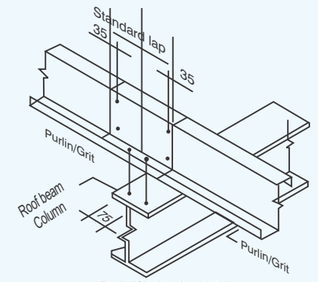




Typical assembly & Connection details

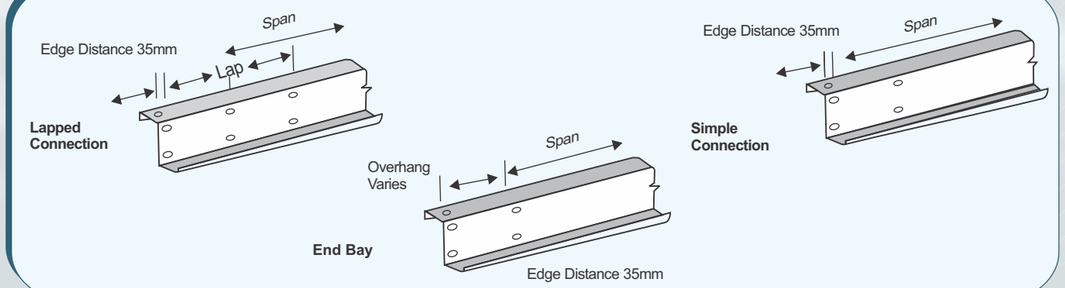


Double flange brace connection details

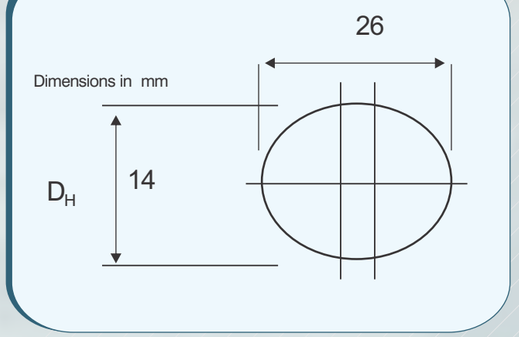


Purlin/Girt lapping detail

Standard Hole for Zed section



Holes & Cleats



Standard hole for CEE sections