

MP-PURLINS

Z and C Purlins for Framed Steel Structures



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MULTICOLOR PROJECTS (INDIA) LTD.

Engineering the Earth

Multicolor Projects (India) Ltd., an ISO 9001:2000 accredited company, specializes in manufacture, supply and erection of (PEB) pre-engineered steel buildings and pre-fabricated steel buildings. MPIL pre-engineered buildings are custom-designed to meet exact requirements using steel structures, plate welded H/I beams, profiled sheets, "Z" and "C" sections, steel decking sheets, single skin and insulated sandwich panels and other building accessories such as flashings, gutters, ridges, doors, windows and louvers.

MP-CEE and MP-ZED Purlins

MP-CEE and MP-ZED Purlins are secondary members of steel structures which serve as the basic material of construction for fast-track projects. These purlins are characterized by high strength, yet low cost (as a result of the high strength to weight ratio). MP Purlins are supplied in required sizes and lengths with pre-punched holes for quick bolting. The production system deployed consists of international standard cold-roll forming technology using high quality machines with online measuring, cutting, punching and forming to provide assured dimensions and straightness, and an overall supreme quality product. MP Purlins are widely used in commercial, industrial and rural buildings, steel structures, sheds and awnings as well as in racking and wall framings.

Advantages of MP-CEE and MP-ZED Purlins

- Very high strength-to-weight ratio: high strength – low cost
- More than 40% saving in steel
- More than 30% saving in overall construction cost
- Easy and low-cost handling and transportation
- Economy due to reduction in dead weight on the main frame structure
- Significantly reduces installation time
- Ability to span long lengths
- No site drilling or cutting required
- Maintenance free owing to application of proper surface finish
- Purlins are factory finished, cut to exact lengths with pre-punched holes to avoid wastage of time and material
- Continuous splay and splicing for better structural strength, stability and economy
- 45 degree (use degree sign) lip for better sectional modulus and easy nesting

Technical & Material Specifications

Thickness: 1.5mm to 3mm

Length: Upto 12000mm

Material: CR Steel as per IS:513/HR Steel as per IS:1079

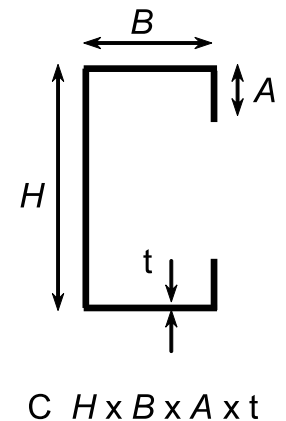
Yield Strength: 245 MPa to 345 MPa

Type: Bare, Primer coated, Galvanized, Painted

MP-CEE and MP-ZED purlins made of hot rolled coils are degreased, phosphated and then primer finished with Zinc Chromate Red-Oxide Paint-matching test requirement of IS:4777 and IS:2074. Special treatment to combat severe atmospheric corrosion can be offered. We also offer purlins in galvanized coated steel in 120 GSM/175 GSM/275 GSM coating as per customer requirement.

STANDARD PURLIN SELECTION C - SECTION

Span (m)	No of Sag rods	Wind Load = 100 kg/m ²	Wind Load = 150 kg/m ²
3.00	-	C 100 x 45 x 15 x 1.6	C 100 x 50 x 15 x 2
3.50	-	C 100 x 50 x 15 x 2	C 120 x 60 x 15 x 2
4.00	-	C 120 x 50 x 15 x 2	C 140 x 60 x 15 x 2
4.50	1	C 140 x 60 x 15 x 2	C 160 x 70 x 20 x 2
5.00	1	C 160 x 60 x 20 x 2	C 200 x 70 x 20 x 2
5.50	1	C 180 x 60 x 20 x 2	C 200 x 70 x 20 x 2.5
6.00	1	C 200 x 70 x 20 x 2	C 200 x 80 x 20 x 2.5
6.50	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 2.5
7.00	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 3
7.50	2	C 200 x 80 x 20 x 2.8	C 250 x 80 x 20 x 2.8
8.00	2	C 200 x 80 x 20 x 3	C 300 x 80 x 20 x 2.5
8.50	2	C 220 x 80 x 20 x 3	C 300 x 70 x 20 x 3
9.00	3	C 220 x 100 x 20 x 3	C 300 x 90 x 20 x 3



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Span (m)	No of Sag rods	Wind Load = 100 kg/m ²	Wind Load = 150 kg/m ²
3.00	-	C 100 x 45 x 15 x 1.6	C 100 x 45 x 15 x 1.6
3.50	-	C 100 x 50 x 15 x 1.6	C 100 x 50 x 15 x 2
4.00	-	C 100 x 50 x 15 x 2	C 120 x 50 x 15 x 2
4.50	1	C 120 x 50 x 15 x 2	C 140 x 50 x 15 x 2
5.00	1	C 140 x 50 x 15 x 2	C 160 x 60 x 20 x 2
5.00	1	C 150 x 60 x 20 x 2	C 180 x 60 x 20 x 2
6.00	1	C 160 x 70 x 20 x 2	C 200 x 70 x 20 x 2
6.50	2	C 180 x 60 x 20 x 2	C 200 x 80 x 20 x 2.5
7.00	2	C 200 x 70 x 20 x 2	C 200 x 80 x 20 x 2.5
7.50	2	C 200 x 80 x 20 x 2.5	C 200 x 80 x 20 x 3
8.00	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 3
8.50	2	C 200 x 80 x 20 x 3	C 250 x 70 x 20 x 2.8
9.00	3	C 220 x 80 x 20 x 3	C 250 x 80 x 20 x 3
9.50	3	C 200 x 80 x 20 x 3	C 300 x 80 x 20 x 2.5
10.00	3	C 220 x 80 x 20 x 3	C 300 x 80 x 20 x 2.8



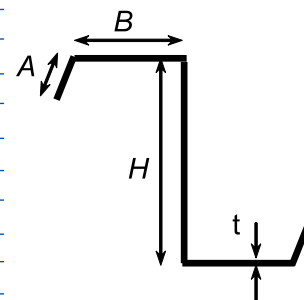
World-Class CRF Purlin Machine



Butt - Connection

STANDARD PURLIN SELECTION Z - SECTION

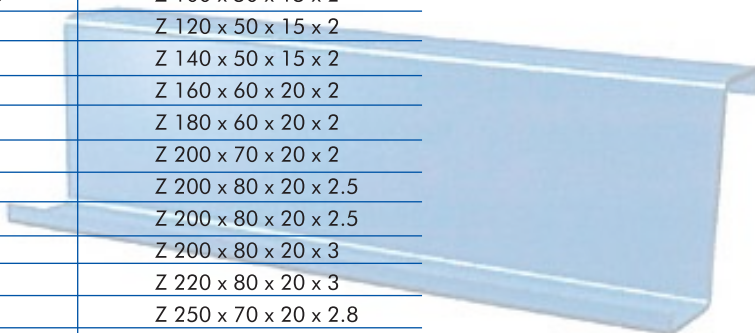
Span (m)	No of Sag rods	Wind Load = 100 kg/m ²	Wind Load = 150 kg/m ²
3.00	-	Z 100 x 45 x 15 x 1.6	Z 100 x 50 x 15 x 2
3.50	-	Z 100 x 50 x 15 x 2	Z 120 x 60 x 15 x 2
4.00	-	Z 120 x 50 x 15 x 2	Z 140 x 60 x 15 x 2
4.50	1	Z 140 x 60 x 15 x 2	Z 160 x 70 x 20 x 2
5.00	1	Z 160 x 60 x 20 x 2	Z 200 x 70 x 20 x 2
5.50	1	Z 180 x 60 x 20 x 2	Z 200 x 70 x 20 x 2.5
6.00	1	Z 200 x 70 x 20 x 2	Z 200 x 80 x 20 x 2.5
6.50	2	Z 200 x 80 x 20 x 2.5	Z 220 x 80 x 20 x 2.5
7.00	2	Z 200 x 80 x 20 x 2.5	Z 220 x 80 x 20 x 3
7.50	2	Z 200 x 80 x 20 x 2.8	Z 250 x 80 x 20 x 2.8
8.00	2	Z 200 x 80 x 20 x 3	Z 300 x 80 x 20 x 2.5
8.50	2	Z 220 x 80 x 20 x 3	Z 300 x 70 x 20 x 3
9.00	3	Z 220 x 100 x 20 x 3	Z 300 x 90 x 20 x 3
9.50	3	Z 250 x 100 x 20 x 3	Z 300 x 110 x 20 x 3
10.00	3	Z 300 x 80 x 20 x 2.8	Z 300 x 120 x 20 x 3



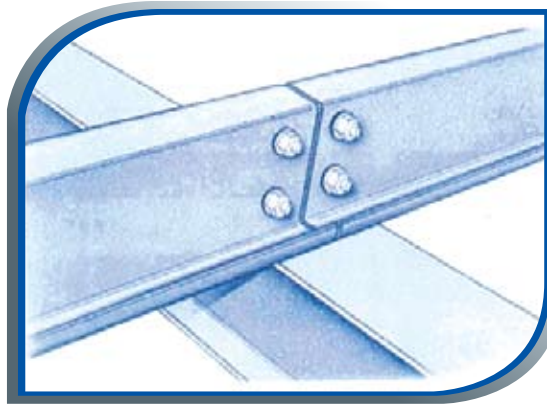
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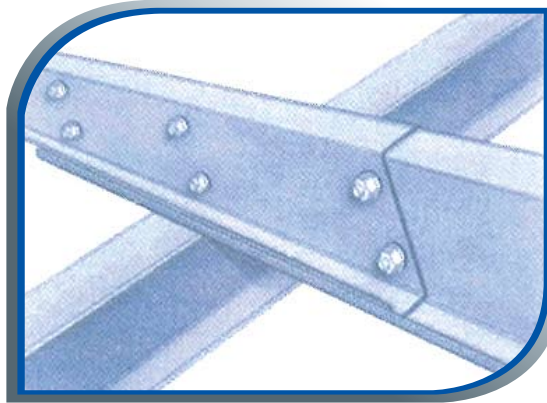
Span (m)	No of Sag rods	Wind Load = 100 kg/m ²	Wind Load = 150 kg/m ²
3.00	-	C 100 x 45 x 15 x 1.6	Z 100 x 45 x 15 x 1.6
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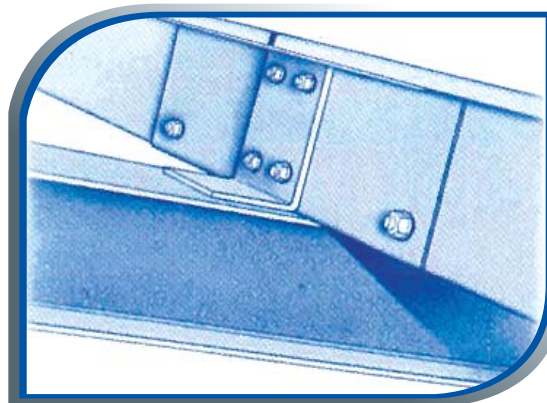
*Data is approved and certified by IIT, Mumbai



Butt - Connection



Overlapping



Sleeve Connection



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