



“ColbyRACK Beams”

Optimum combination of structural performance, durability
and cost efficiency



Beams

- All standard duty Colby Beams are made from **1.6mm** thick high tensile steel. Heavy Duty Beams are made from **2.0mm** thick high tensile steel.
- Available standard lengths are:
 - **1370mm / 2590mm/ 2740mm / 3050mm**
- Wide variety of beams for adjustable pallet racking
- Different range of profiles to balance the needs of structural performance, cost and durability
- Powder coat finish in standard orange colour

Benefits

- Optimum combination of structural performance, durability and cost efficiency
- Durable, hard wearing finish



Box Beam (BB)

Depth (mm) kg/Pair of beams
(2590 Span + 1.9 Upright)

85	1500kg
93	2000kg
110	2800kg
130	3500kg
155	4500kg



Heavy Duty Beam (UU)

Depth (mm) kg/Pair of beams
(2590 Span + 1.9 Upright)

110	3000kg
130	3700kg
150	4400kg



Open Beam (OB)

Depth (mm) kg/Pair of beams
(2590 Span + 1.9 Upright)

55	500kg
75	950kg



4-tang End Connector

- › Improved stability under the most demanding conditions
- › Maximum structural effectiveness
- › For Standard, Heavy-Duty and Structural Box Beams



3-tang End Connector

- › For light-duty Open Section beams only
- › Used for shelving and CLS applications



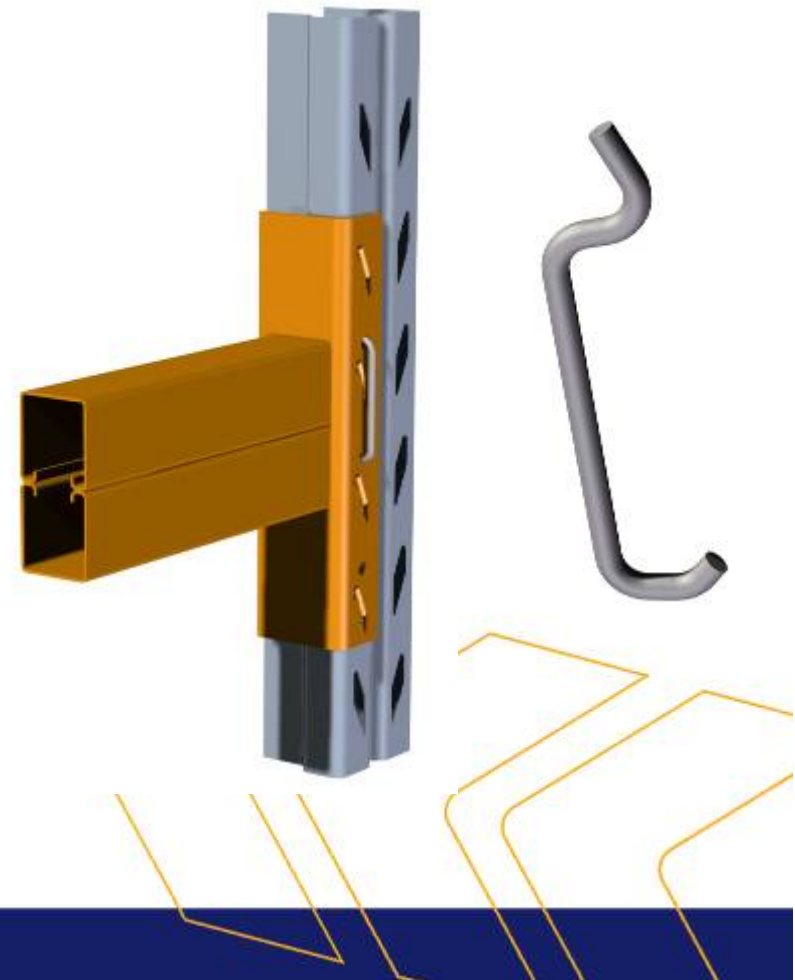
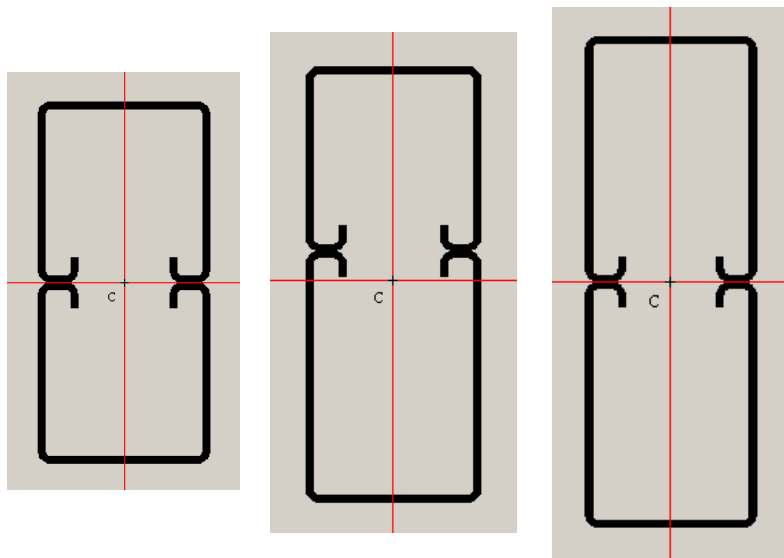
Safety Clips

- › Spring-loaded to prevent accidental dislodging
- › Available for Heavy-Duty (patented and registered) and Standard Beams



New Racking Beam and Safety Clip

- The heavy-duty, high impact, UU-range
 - 110 x 2.0 = 55 + 55
 - 130 x 2.0 = 55 + 75
 - 150 x 2.0 = 75 + 75
- Protected by patents and registered designs



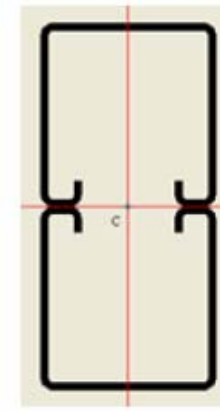
Frontal impact testing



Interlocking



RHS



Dematic "UU" Beam

Box Beam Type	Steel Mass	Strength Under Horizontal Load (by Calculation)	Permanent Deformation after Dematic Standard Test	File name for video tests
Interlocking Box Beam 110 x 50 x 1.5mm	1.00	1.00	1.00	B04_110 x 1.5mm Box
RHS – 100 x 50 x 2.0mm	0.86	0.98	1.06	B06_100 x 50 x 2.0mm RHS
RHS – 100 x 50 x 3.0mm	1.33	1.63	0.47	B08_100 x 50 x 3mm RHS
New Dematic Box Beam 110 x 52 x 2.0mm	1.07	1.43	0.35	B09_110 x 52 x 2.0mm New



Box Beam

- › Two inward lipped channels, stitch welded together top and bottom along their seam with ribs over the entire length of the beam
- › Ribs provide an additional stiffness to the beam web from the point of view of local buckling of the compression web
- › Manufactured from 1.6mm high tensile steel



Heavy-Duty Beam

- › Fabricated from two U profiles, stitch welded along the seam
- › Stiffens the front face so that it does not suffer from local buckling and is instead able to realise the full yield capacity of the material
- › Exceptional resistance to horizontal impact loads
- › Manufactured from 2.0mm high tensile steel