

Special Profiles

Cathode bars



Corus Special Profiles is a business unit within the Corus group. We specialise in the manufacture of hot rolled, special shaped steel profiles for a range of industries around the world.

We offer an extensive range of rectangular and square bars for use as cathode bars (or collector bars) for the aluminium smelting industry.



Width (mm)

	120	130	135	140	150	160	170	180	190	200	210
170											
160											
150											
140											
135											
130											
120											
110											
100											
90											
80											
70											
60											

Thickness (mm)



Available bar sizes. Please enquire if you need other sizes.

Dimensional tolerances :

Standard tolerances are available as follows. Please enquire if you require alternatives :

Width & Thickness : + / - 2mm

Length : Hot sawn +100 / -0mm. Cold sawn +10 / -0mm

Straightness : 2mm/metre

Corner radii : most bars have corners within the range 13 – 18mm. Please ask for details for individual bar sizes.

Supply conditions :

We offer the following options for supply of bars. Please contact us for further details :

- Long bars : hot sawn lengths up to 10 metres.
- Cold sawn lengths : typically between 1.5 and 5 metres.
- Fabricated bars : with machined and drilled ends.



Steel grades :

We offer a range of steel specifications with varying levels of carbon to suit individual smelter requirements. Typically these are as follows :

EN 10025 : 2004 S235JO	aim C max 0.20%
Low carbon : (SAE 1006 type)	aim C max 0.06%
Ultra Low Carbon :	aim C max 0.01%

Ultra Low Carbon steel offers the lowest level of resistivity compared with other specifications. Please contact us if you require further details.

Product developments :

We work with individual smelters to explore opportunities for improving the performance of cathode bars. This includes evaluating the benefits of reduced resistivity from larger bar sizes. We can offer small quantities of new sizes for testing in trial pots. Please contact us for further details



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**we don't generalise
we specialise**

