

Western European 460 Yield Steel Plate



Brown McFarlane
Global Steel Solutions



Applications

- 🌐 Bridges
- 🌐 Grouted tees/Grouted sleeves
- 🌐 Pipe caps/Pipe fittings
- 🌐 Pipe lines
- 🌐 Plate girders
- 🌐 Pressure vessels
- 🌐 Road tankers

Key Benefits

- 🌐 Cutting to optimum size.
- 🌐 Excellent weldability with CEV 0.50% max (up to 30mm) CEV 0.53% max (over 30mm).
- 🌐 High strength to weight ratio significantly reduces weight of overall components.
- 🌐 Yield guaranteed 450N/mm² minimum.(≤ 50mm)
- 🌐 Fully accredited quality systems to ISO 9001, 14001 and 18001.
- 🌐 Delivered worldwide by our international logistics organisation.

Brown McFarlane offers the widest range of carbon and stainless steel plate, available ex-stock.

Designers are increasingly using 460 MPa yield plate to combine increased strength with savings in weight.

We recognise the need for an ex-stock source of 460 yield plate and are able to offer the following material:-

Specifications

EN10028-3 P460NL1
EN10028-3 P460NL2
EN10028-3 P460NH
EN10025-3 S460N

Material certified in accordance with EN 10204 3.2 Lloyds register.

Dimensional Tolerances.

Thickness tolerance in accordance with EN10029 Class C. All other dimensional tolerances in accordance with EN 10029.

Available Sizes

EN 10028 P460 NL1 / NL2 / NH - EN10025-3 S460 N / NL1

Thickness: 6/8/8.3/10/12/16/20/25/30/35/40/45mm Length: 12000 Width:3000
 Thickness: 50/55/60mm Length: 12000 Width 3000

Chemical Composition (Ladle %)

C	Si	Mn	P	S	Al total	N	Cr	Cu	Mo	Nb	Ni	Ti	V
Max	Max		Max	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max
0.20	0.60	1.10 to 1.70	0.020	0.005	0.020	0.025	0.30	0.70	0.10	0.05	0.80	0.03	0.20

Nb + Ti + V
0.22% Max

Carbon Equivalent
Up to 30mm thick 0.50% max
Over 30mm thick 0.53% max

Mechanical Properties

Product Thickness	Yield Strength MPa (min)	Tensile Strength MPa	Elongation % (min)
< 16mm	450	570 to 730	17
16 to 50mm	450	570 to 720	17
> 50mm	430	570 to 720	17

Minimum Impact Values Transverse Direction

Grade	Temperature (°C)		
	-50	-40	-20
P460NH	--	--	30J
P460NL1	--	27J	35J
P460NL2	27J	30J	40J

Applicable for plate thickness less than 250mm



Quality steel plate suppliers to the world

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