



Declaration of Performance
The Construction Products (Amendment etc.) (EU Exit)
Regulations 2020 No 1359

Unique identification code of the product-type:
 No. BS Section S420M

Section S420M / 1.8825 according EN 10025-4

Intended use:
 To be used in Metal Structures and Composite Metal and
 Concrete Structures

Manufacturer:
British Steel Limited
Brigg Road
Scunthorpe, DN16 1XA

Tel: +44 (0)1724 404040

Website : www.britishsteel.co.uk

System of assessment and verification of constancy of
 performance of the product:
System 2+

Factory Production Control Assessment body No. 0038 performed the initial
 inspection of the manufacturing plant and of factory production control and the
 continuous surveillance, assessment, and evaluation of factory production
 control and issued the certificate of conformity of the factory production control.

The performance of the product identified in the Declared Performance is in
 conformity with the set of declared performance/s.
 This declaration of performance is issued, in accordance with: Regulation (EU
 Exit) Regulations 2020 No 1359, under the sole responsibility of the
 manufacturer identified above.

Certificate No. 0038/CPR/LRQ0860859/1

Signed for and on behalf of the manufacturer by:

Chris Vaughan
 Technical Director,
 British Steel Limited

1st May, 2024
 Date

| Essential characteristic | Declared Performance | | | | Harmonised Standard |
|------------------------------------|------------------------|-----|------------------------|---|---------------------|
| | Nominal thickness (mm) | | Values (MPa) | | |
| Tolerances on dimensions and shape | I & H Sections | | EN 10034 | | EN10025-1 2004 |
| | Equal Flange Tee | | EN 10055 | | |
| | Equal Angle | | EN 10056-2 | | |
| | Unequal Angle | | EN10056-2 | | |
| | Tapered Flange I | | EN 10024 | | |
| | Bulb Flats | | EN 10067 | | |
| | Channels | | EN 10279 | | |
| Yield strength (transverse) | Nominal thickness (mm) | | Values (MPa) | | EN10025-1 2004 |
| | > | <= | Min | | |
| | - | 16 | 420 | | |
| | 16 | 40 | 400 | | |
| | 40 | 63 | 390 | | |
| | 63 | 80 | 380 | | |
| | 80 | 100 | 370 | | |
| 100 | 150 | 365 | | | |
| Tensile strength (transverse) | Nominal thickness (mm) | | Values (MPa) | | EN10025-1 2004 |
| | > | <= | min | max | |
| | 0 | 40 | 520 | 680 | |
| | 40 | 63 | 500 | 660 | |
| | 63 | 80 | 480 | 640 | |
| | 80 | 100 | 470 | 630 | |
| | 100 | 150 | 460 | 620 | |
| Elongation (transverse) | Nominal thickness (mm) | | Values min (% 5.65√so) | | EN10025-1 2004 |
| | > | <= | | | |
| | 0 | 150 | 19 | | |
| | | | | | |
| Impact strength (longitudinal) | | | 40J at - 20°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values max (%) | | EN10025-1 2004 |
| | > | <= | | | |
| | - | 16 | 0.43 | | |
| | 16 | 40 | 0.45 | | |
| | 40 | 63 | 0.46 | | |
| | 63 | 120 | 0.47 | | |
| Durability | Nominal thickness (mm) | | Values min (%) | Values max (%) | EN10025-1 2004 |
| | - | 120 | | Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.50 P: 0.030 S: 0.025 Nb: 0.050 V: 0.12 Ti: 0.05 Ni: 0.80 Mo: 0.20 N: 0.025 | |
| | | | | | |
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Manufacturer:
British Steel Limited
Brigg Road
Scunthorpe, UK

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BS Section S420M

Harmonised Standard :
 EN 10025-1 – 2004

Section S420M / 1.8825

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 and Concrete Structures

Elongation :
 Tensile Strength :
 Yield Strength : EN 10025-4
 Impact Strength :
 Weldability :
 Durability :

Dangerous Substances : No Performance Determined

UK Conformity Assessment Body
LRQA Verification Limited
1 Trinity Park, Bickenhill Lane,
Birmingham B37 7ES.

Website www.lrqa.com