

Declaration of Performance
(according to regulation EU No 305/2011)

No. LPE Plate S460M

Plate S460M / 1.8827 according EN 10025-4

To be used in-welded, bolted and riveted structures

Tata Steel UK Limited
Long Products Europe
PO Box 1, Brigg Road
Scunthorpe, DN16 1BP
Tel: +44 (0)1724 404040
Website : www.tatasteeleurope.com

CE Marking Notified Body
Lloyds Register Verification Limited
71 Fenchurch Street, London, EC3M 4BS
Tel :+44 (0)207 423 2428
Email : ecdirectives@lr.org
Website : www.lr.org

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


Notified factory production control certification 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



Jon Bolton – Director, Long Products Europe
Tata Steel UK Limited

1st July 2013
Date

| Essential characteristic | Performance | | | | Harmonised technical specification |
|------------------------------------|------------------------|------|--|-----|------------------------------------|
| | | | | | |
| Tolerances on dimensions and shape | Thickness | | EN 10029 | | EN10025-1 2004 |
| | Flatness | | EN 10029 | | |
| Yield strength (transverse) | Nominal thickness (mm) | | Values Min (Mpa) | | |
| | > | <= | | | |
| | - | 16 | 460 | | |
| | 16 | 40 | 440 | | |
| | 40 | 63 | 430 | | |
| | 63 | 80 | 410 | | |
| | 80 | 100 | 400 | | |
| 100 | 120 | 385 | | | |
| Tensile strength (transverse) | Nominal thickness (mm) | | Values (MPa) | | |
| | > | <= | min | Max | |
| | 5 | 40 | 540 | 720 | |
| | 40 | 63 | 530 | 710 | |
| | 63 | 80 | 510 | 690 | |
| | 80 | 100 | 500 | 680 | |
| | 100 | 120 | 490 | 660 | |
| Elongation (transverse) | Nominal thickness (mm) | | Values min (%; 5.65√s ₀) | | |
| | > | <= | | | |
| | 5 | 120 | 17 | | |
| Impact strength (longitudinal) | | | 40J at -20°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values max (%) | | |
| | > | <= | | | |
| | - | 16 | 0.45 | | |
| | 16 | 40 | 0.46 | | |
| | 40 | 63 | 0.47 | | |
| 63 | 120 | 0.48 | | | |
| Durability | Nominal thickness (mm) | | Values max (%) | | |
| | - | 120 | C: 0,16 Si: 0,60 Mn: 1,70 P: 0,030 S: 0,025 Nb: 0,050 V: 0,12 Al: 0,020 Ti: 0,05 Cr: 0,30 Ni: 0,80 Mo: 0,20 Cu: 0,55 N: 0,025 | | |



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Tata Steel
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Scunthorpe, UK

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EN 10025-1 – 2004
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Tolerances on dimensions : Plate EN10029

Elongation :
Tensile Strength :
Yield Strength : EN10025-4
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined