



Caparo Merchant Bar plc

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

Ref: CMB Bar and Section S235JR

Section S235JR / 1.0038 according EN 10025-2

To be used in-welded, bolted and riveted structures

Caparo Merchant Bar plc
Caparo House, P O Box 15
Brigg Road, Scunthorpe
DN16 1XL United Kingdom

T: +44 (0) 1724 853333
F: +44 (0) 1724 403044

Website : www.cmbplc.co.uk

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

Steve Unwin – Managing Director
Caparo Merchant Bar plc

Date **1st July 2013**

Essential characteristic	Performance		Harmonised technical specification	
Tolerances on dimensions and shape	Flat Bar Equal & Unequal Angle Rounds Squares PFC I & H Sections		EN10058 EN 10056-1 & 2 EN 10060 EN 10059 EN 10279 EN 10034	
Yield strength (longitudinal)	Nominal thickness (mm)		Values Min (MPa)	
	>	≤		
	-	16	235	
	16	40	225	
Tensile strength (longitudinal)	Nominal thickness (mm)		Values (MPa)	
	≥	≤	min	max
	3	100	360	510
Elongation (longitudinal)	Nominal thickness (mm)		Values min (% , 5.65√s ₀)	
	>	≤		
	-	40	26	
	40	63	25	
Impact strength (longitudinal)	JR		27J at +20°C	
Weldability CEV	Nominal thickness (mm)		Values max (%)	
	>	≤		
	-	40	0.35	
Durability	Nominal thickness (mm)		Values max (%)	
	-	≤ 40	C: 0.17 Mn: 1.40 P: 0.035 S: 0.035 N: 0.012 Cu: 0.55	
	>40	100	C: 0.20 Mn: 1.40 P: 0.035 S: 0.035 N: 0.012 Cu: 0.55	



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CMB Bar and Section S235JR

EN 10025-1 – 2004

Bar and Section S235JR / 1.0038

To be used in-welded, bolted and riveted structures

Elongation :
Tensile Strength :
Yield Strength :
Impact Strength :
Weldability :
Durability :

EN10025-2

Dangerous Substances : No Performance Determined



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Ref: CMB Bar and Section S355J0

Section S355J0 / 1.0553 according EN 10025-2

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Tolerances on dimensions and shape	Flat Bar Equal & Unequal Angle Rounds Squares PFC I & H Sections	EN10058 EN 10056-1 & 2 EN 10060 EN 10059 EN 10279 EN 10034	EN10025-1 2004			
Yield strength (longitudinal)	Nominal thickness (mm)	Values Min (MPa)				
	>	≤				
	-	16			355	
	16	40			345	
	40	63			335	
Tensile strength (longitudinal)	Nominal thickness (mm)	Values (MPa)			min	max
	≥	≤				
	3	100			470	630
	Elongation (longitudinal)	Nominal thickness (mm)			Values min (% , 5.65√s ₀)	
		>	≤			
-		40	22			
Impact strength (longitudinal)	40	63	21			
	63	100	20			
	J0	27J at -20°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	≤				
	-	30	0.45			
Durability	30	100	0.47			
	Nominal thickness (mm)	Values max (%)				
	-	≤40	C: 0.20 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 N: 0.012 Cu: 0.55			
	>40	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 N: 0.012 Cu: 0.55				



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CMB Bar and Section S355J0

EN 10025-1 – 2004

Bar and Section S355J0 / 1.0553

To be used in-welded, bolted and riveted structures

Elongation :
Tensile Strength :
Yield Strength : EN10025-2
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined



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Section S355J2 / 1.0577 according EN 10025-2

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	> ≤					
	- 16	355				
	16 40	345				
	40 63	335				
Tensile strength (longitudinal)	Nominal thickness (mm)	Values (MPa)			min	max
	≥ ≤					
	3 100	470			630	
	Elongation (longitudinal)	Nominal thickness (mm)			Values min (% , 5.65√s ₀)	
		> ≤				
- 40		22				
Impact strength (longitudinal)	40 63	21				
	63 100	20				
	J2	27J at -20°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	> ≤					
	- 30	0.45				
Durability	30 100	0.47				
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	- ≤40	C: 0.20 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 N: 0.012 Cu: 0.55				
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Elongation :
Tensile Strength :
Yield Strength : EN10025-2
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined