

DECLARATION OF PERFORMANCE

(according to regulation EU No 305/2011)

No. Stainless Long 1.4301, 1.4305, 1.4401

**Bars, Rods, Wire,
Hot Rolled Sections eg Angles Channels, I Beams
1.4301, 1.4305, 1.4401
according EN 10088-5**

Head Office: ParkerSteel Limited

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Kent CT1 1HD

Tel: 01227 783333

Website: www.parkersteel.co.uk

View DOP: www.parkersteel.co.uk/dop

UKCA Marking Notified Body (No. 2273)

Steel Construction Certification Scheme

4 Whitehall Court, Westminster

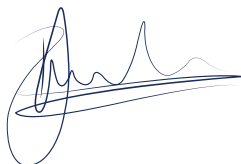
London, SW1A 2ES

Tel: 020 7839 8566

Website: www.steelconstruction.org

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

Steel Construction Certificate Scheme has performed (i) intial
inspection of the manufacturing plant and factory product
control and (ii) continuous surveillence, assessment and
evaluation of factory production control and issued Factory
Production Control certificate 2273-CPR-0025 and Welding
Certificate 2273-CPR-0025-WC.



Dylan Alexander
Managing Director
ParkerSteel Limited

Date:
December 2023

Steel designation		Thickness or diameter mm	Hardness HB max	0,2% Proof strength R _{p0.2} MPA min.	0,1% Proof strength R _{p0.1} MPA min.	Tensile Strength R _m MPA
Name	Number					
X5CrNi18-10	1.4301	≤160	215	190	225	500 to 700
		160<t≤250				
X8CrNi18-9	1.4305	≤160	230	190	225	500 to 750
X5CrNiMo17-12-2	1.4401	≤160	215	200	235	500 to 700
		160<t≤250				

Steel designation		Thickness or diameter mm	Elongation after fracture A ₅ % min.		Impact energy max		Resistance to intergranular corrosion	
Name	Number		(long)	(tr)	(Long)	(tr)	in the delivery condition	in the sensitized condition
X5CrNi18-10	1.4301	≤160	45	-	100	-	yes	no
		160<t≤250	-	35	-	-		
X8CrNi18-9	1.4305	≤160	35	-	-	-	no	no
X5CrNiMo17-12-2	1.4401	≤160	40	-	100	-	yes	no
		160<t≤250	-	30	-	60		

Chemical composition (cast analysis) of austentic corrosion resisting steels								
X5CrNi18-10 (1.4301)			X8CrNi18-9 (1.4305)			X2CrNiMo17-12-2 (1.4401)		
C	≤0,07		C	≤0,10		C	≤0,07	
Si	≤1,00		Si	≤1,00		Si	≤1,00	
Mn	≤2,00		Mn	≤2,00		Mn	≤2,00	
P max.	0,045		P max.	0,045		P max.	0,045	
S	≤0,030		S	0,15 to 0,35		S	≤0,030	
N	≤0,10		N	≤0,10		N	≤0,10	
Cr	17,5 to 19,5		Cr	17,0 to 19,0		Cr	16,5 to 18,5	
Cu	-		Cu	≤1,00		Cu	-	
Mo	-		Mo	-		Mo	2,00 to 2,50	
Nb	-		Nb	-		Nb	-	
Ni	8,0 to 10,5		Ni	8,0 to 10,0		Ni	10,0 to 13,0	



2273

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EN 10088 - 5
Stainless Long 1.4301, 1.4305, 1.4401

To be used in metal structures or in composite metal and
concrete structures for building construction or
civil engineering

Elongation:
Tensile Strength:
Yield Strength: EN10088-5
Impact Strength:
Weldability:
Durability:
Dangerous Substances: No Performance Determined