

## DECLARATION OF PERFORMANCE

(according to regulation EU No 305/2011)

No. Stainless Long 1.4307, 1.4404  
**Bars, Rods, Wire,**  
**Hot Rolled Sections eg Angles Channels, I Beams**  
**1.4307, 1.4404**  
 according EN 10088-5

**Head Office: ParkerSteel Limited**  
**Vauxhall Road, Canterbury**  
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Website: www.parkersteel.co.uk

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

### UKCA Marking Notified Body (No. 2273)

Steel Construction Certification Scheme

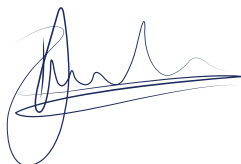
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 London, SW1A 2ES

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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 surveillance, 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 | Hardness HB | 0,2% Proof strength R <sub>p0.2</sub> MPA min. | 0,1% Proof strength R <sub>p0.1</sub> MPA min. | Tensile Strength R <sub>m</sub> MPA |
|-------------------|--------|-----------------------|-------------|--|--|-------------------------------------|
| Name              | Number | mm                    | max         |  |  |                                     |
| X2CrNi18-9        | 1.4307 | ≤160                  | 215         | 175  | 210  | 500 to 700                          |
|                   |        | 160<t≤250             |             |  |  |                                     |
| X2CrNiMo17-12-2   | 1.4404 | ≤160                  | 215         | 200  | 235  | 500 to 700                          |
|                   |        | 160<t≤250             |             |  |  |                                     |

| Steel designation |        | Thickness or diameter | Elongation after fracture A % min. |      | Impact energy |      | Resistance to intergranular corrosion |                             |
|-------------------|--------|-----------------------|------------------------------------|------|---------------|------|---------------------------------------|-----------------------------|
| Name              | Number | mm                    | (long)                             | (tr) | (Long)        | (tr) | in the delivery condition             | in the sensitized condition |
| X2CrNi18-9        | 1.4307 | ≤160                  | 45                                 | -    | 100           | -    | yes                                   | yes                         |
|                   |        | 160<t≤250             | -                                  | 35   | -             | 60   |                                       |                             |
| X2rNiMo17-12-2    | 1.4404 | ≤160                  | 40                                 | -    | 100           | -    | yes                                   | yes                         |
|                   |        | 160<t≤250             | -                                  | 30   | -             | 60   |                                       |                             |

| Chemical composition (cast analysis) of austenitic corrosion resisting steels |              |                          |              |
|---|--------------|--------------------------|--------------|
| X2CrNi18-9 (1.4307)   |              | X2CrNiMo17-12-2 (1.4404) |              |
| C   | ≤0,030       | C                        | ≤0,030       |
| Si  | ≤1,00        | Si                       | ≤1,00        |
| Mn  | ≤2,00        | Mn                       | ≤2,00        |
| P max.  | ≤0,045       | P max.                   | ≤0,045       |
| S   | ≤0,030       | S                        | ≤0,030       |
| N   | ≤0,10        | N                        | ≤0,10        |
| Cr  | 17,5 to 19,5 | Cr                       | 16,5 to 18,5 |
| Cu  | -            | Cu                       | -            |
| Mo  | -            | Mo                       | 2,00 to 2,50 |
| Nb  | -            | Nb                       | -            |
| Ni  | 8,0 to 10,5  | Ni                       | 10,0 to 13,0 |



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EN 10088 - 5  
 Stainless Long 1.4307, 1.4404

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