



Certificate No : MD00/1754/0009/1

Appendix 1

OUTOKUMPU STAINLESS AB

BA Europe

Degerfors Operations (QPE),

S-693 81 Degerfors, Sweden

<b>Plates</b>	<b>Austenitic Stainless</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
Solution Treated	-	304L, 304LN, 316L, 316LN, 321	50.0
<b>Plates</b>	<b>Duplex Stainless</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
Solution Treated	-	UNS S32304*	10.0
Solution Treated	-	UNS S32101*	20.0
Solution Treated	-	UNS S31803(MOD)*	50.0

\* Avesta 2205, UNS 32205 and EN 10088-1 grade 1.4462 may be accepted as equivalent to UNS 31803 as shown in LR Rules when properties meet the Rule requirements.

\*\* Grade UNS 32304 may be accepted as equivalent to 316L as shown in LR Rules when properties meet the Rule requirements.

\* The LR certification of Grade 32101 in accordance with EN 10088-2 grade 1.4162, is only permissible for projects for which the use of this grade has been specifically approved by LR plan appraisal.

Valid Until : 12 November 2020

Date of Issue : 13 November 2017

**Gavin Young**

Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



Certificate No : MD00/1754/0009/1

**OUTOKUMPU STAINLESS AB**  
BA Europe  
Degerfors Operations (QPE),  
S-693 81 Degerfors, Sweden

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Steel Plates

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 12 November 2020  
Date of Issue : 13 November 2017

A handwritten signature in blue ink, appearing to read 'G. Young', is written over a horizontal line.

**Gavin Young**  
Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group