

**BUREAU
VERITAS**

Marine & Offshore

Certificate number: SMS.LAB.320/51046/B.0

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RECOGNITION OF TEST LABORATORY

ABS SISAK d.o.o.
Sisak - CROATIA

Summary of the range of the recognition which is detailed in the subsequent page(s):

MATERIAL TESTING AND NON DESTRUCTIVE TESTING
DESTRUCTIVE TEST, NON-DESTRUCTIVE TEST AND CHEMICAL ANALYSIS OF METALLIC MATERIALS

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the testing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 19 Dec 2021

For Bureau Veritas Marine & Offshore,

At BV RIJEKA, on 03 Jan 2018,

Slaven Celic



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfRecognition.jsp?id=insg7t36i5>

BV Mod. Ad.E 686 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF RECOGNITION

1. RANGE OF THE RECOGNITION

Type of test	Test standard	Test witnessing requirements	Remark
Analysis of C,S,N,O in steel	ASTM E 415:2017	Tests to be witnessed -as practicable- at each periodical audit	
Chemical analysis of steels	ASTM E 415ASTM E 1019:2011	Tests to be witnessed -as practicable- at each periodical audit	
Hardness test	ASTM E92 -17:2017 ;ASTM E140 - 12be1:2012	Tests to be witnessed -as practicable- at each periodical audit	ASTM E6-99: 2002 ;ASTM E10 -17:2017 ; ASTM E18-17ei:2017
Impact test	ASTM A350/A350M -17:2017 ; ASTM E23 - 169:2016;	Tests to be witnessed	
Macrographic examination	ISO 4968:1980 ;ISO 4969:2015;ASTM E 340-15:2015	Tests to be witnessed -as practicable- at each periodical audit	ASTM E 381-17:2017 ; ASTM 381 - 17:2017; ASTM E 1180-08:2014
Micrographic examination	ASTM E 3-11: 2017;ASTM E 7-17: 2017;ASTM E 407-07 :2015	Tests to be witnessed -as practicable- at each periodical audit	ISO 3763:1976;ASTM E 112-13:2013; ASTM E 45-13:2013
Micrographic examination	DIN 50 602: 1985 UNI 3244: 1980 UNI EN 10247:2007 HRN EN ISO	Tests to be witnessed -as practicable- at each periodical audit	HRN EN ISO 643: 2012 EU 103-71: 1971 SEP 1584: 1996
Tensile test	ISO 6892-1:2016 ;ASTM E8/E8M-16a: 2016; ASTM A370:2017	Tests to be witnessed	UNI EN ISO 6892-1:2009;UNI EN ISO 148-1:2011

2. LIMITATIONS

Bureau Veritas Marine & Offshore is to be informed immediately of any modification to testing facilities and associated quality procedures in order to agree on appropriate actions.

ABS SISAK d.o.o. has to carry out and report the tests in compliance with the relevant testing standard(s) and has to make the necessary arrangements to comply with the witnessing requirements agreed with Bureau Veritas Marine & Offshore.

ABS SISAK d.o.o. has to apply for the periodical audits as agreed with Bureau Veritas Marine & Offshore.

3. REMARKS

Nil.

*** END OF CERTIFICATE ***