



RECOGNITION OF A TEST LABORATORY CERTIFICATE

No. 02-001507/023130

THIS IS TO CERTIFY:

That CROATIAN REGISTER OF SHIPPING did undertake, at the Laboratory's request, and pursuant of the Work instruction QW104 - "Recognition of test laboratory", on assessment of the organisational structure, responsibilities, facilities and associated quality assurance procedures of the referenced Laboratory with respect to test and testing standards, subject to any conditions in the Schedule of recognition attached hereto.

1. LABORATORY:

Name of laboratory: **CMC Sisak d.o.o.** Sektor kvalitete
Laboratorij za mehanička ispitivanja, Laboratorij za kemijska ispitivanja
Address: **Braće Kavurića 12, 44010 SISAK, HRVATSKA - CROATIA**

2. SCOPE OF RECOGNITION

As listed in Annex I of the Schedule of recognition providing that test witnessing shall be as stated hereto.

3. CONDITIONS FOR THE VALIDITY OF THE RECOGNITION

- Tests are to be carried out and reported in compliance with the relevant Regulation(s).
- Surveillance audits are to be carried out annually by the CRS's surveyors and recorded in the Annex II of the Schedule of the recognition.
- CRS is to be informed immediately of any modification in the organisational structure, responsibilities, facilities and associated quality assurance procedures.

Recognition is valid until: **2015-07-02**

Place and date: **Split, 2011-08-01**

Seal

Signature

Goran Begović, dipl.ing.

SCHEDULE OF RECOGNITION

Annex I to Certificate No:

No. 02-001507/023130

Item No.	Test method	Regulation	Test standards (latest edition)	Test witnessing mode (see note)	Comments
1.	Ispitivanje kemijskog sastava metala <i>Testing of chemical composition of metals</i>	CRS Rules Part 25.	ASTM E 1019 ASTM A 751 ASTM E 415	(2)	
2.	Vlačno ispitivanje <i>Tensile test</i>	CRS Rules Part 25. Part 26.	ISO 6892-1 DIN EN 10002-1 DIN EN 10002-5 ASTM E 8-03 ASTM A 370 DIN 50125	(1)	
	Ispitivanje žilavosti <i>Impact test</i>		HRN EN 10045-1 ISO 148-1 ASTM E-23-02 DIN 50115		
	Ispitivanje tvrdoće <i>Hardness test</i>		HRN EN ISO 6506-1 HRN EN ISO 6507-1 HRN EN ISO 6508-1		
	Ispitivanje spljoštavanjem prstena <i>Flattening test</i>		DIN EN 10233 HRN ISO 8492		
	Ispitivanje proširivanjem <i>Drift expanding test</i>		DIN EN 10234		
	Ispitivanje prirubljivanjem <i>Flanging test</i>		DIN EN 10235		
	Ispitivanje proširivanjem prstena na trnu <i>Ring expanding test</i>		DIN EN 10236		
	Ispitivanje savijanjem <i>Bend test</i>		ISO 8491 DIN EN ISO 7438		
	Ispitivanje zatezanjem prstena <i>Ring tensile test</i>		DIN EN 10237		
3.	Baumannov otisak <i>Baumann's impression</i>	CRS Rules Part 25.	ISO 4968	(2)	
	nagrivanje u amonipersulfatu <i>etching in ammonia-persulphate</i>		ISO 4969 ASTM E 381		
	nemetalni uključci <i>non-metallic inclusions</i>		ASTM E45 DIN 50602		
	veličina zrna <i>grain size</i>		ASTM E112 HRN EN ISO 643		
	karbidi <i>carbides</i>		HRN C.A3.005		
	razugljičenje <i>decarburization</i>		EN ISO 3887		

Note:

- (1) Except otherwise agreed upon, the CRS witnessing is compulsory for every test.
- (2) First test and one per 4 years.
- (3) CRS witnessing is not compulsory.

SURVEILLANCE AUDITS

Annex II to Certificate no:

No. 02-001507/023130

Mandatory survey due period (+/- 3 months):

	1.	2.	3.
Due date:	2012-07-02	2013-07-02	2014-07-02
Date of survey:			
Name and signature:			
Seal:			

Raščlana

55.00

Zamjenjuje potvrdu

02-001175/022293
