

## **GUIDELINES FOR INTERLABORATORY TESTS ON MORTARS FOR MASONRY EDITION I, 2010 - 2011**

### **1. General considerations**

Mortar sample put at disposal by CEPROCIM S.A. is necessary to be placed into work no later than **28<sup>th</sup> of January 2011**, taking into account the followings:

- the mortar will be worked in the same day in which the container will be opened;
- before perform the determinations, the total quantity mortar sample enclosed in the container will be homogenized;
- the quantity of mortar left for eventual repetitions, will be stored in tight sealed containers.

For data processing, the results shall be typed or **very clear** written in the enclosed registration forms, in each determination fitted place. The papers completed with the values will be sent by post, fax, e-mail or courier to CEPROCIM S.A. no later than **1<sup>st</sup> of April 2011**.

### **2. Information regarding the determination of density in fresh state and of mechanical strength at flexion and compression**

The prescriptions of the following standards will be observed:

- SR EN 1015-2:2001 + SR EN 1015-2:2001/A1:2007 for preparing the testing mortar;
- SR EN 1015-3:2001 + SR EN 1015-3:2001/A1:2004 + SR EN 1015-3:2001/A2:2007 for determination of fresh mortar consistency;
- SR EN 1015-6:2001 + SR EN 1015-6:2001/A1:2007 for determination of density in fresh state;
- SR EN 1015-11:2002 + SR EN 1015-11:2002/A1:2007 for determination of mechanical strength.

It is necessary to take into account the followings:

- temperature of testing sample must be maintained at  $(20 \pm 5) ^\circ\text{C}$ , temperature in the preservation room of samples must be of  $(20 \pm 2) ^\circ\text{C}$ , and the humidity of  $(95 \pm 5) \%$  or of  $(65 \pm 5) \%$ ;
- mixer for mixture preparing will be according to SR EN 196-1:2006;
- mixing of mortar for masonry will be made in accordance with SR EN 1015-2:2001 + SR EN 1015-2:2001/A1:2007, mixing period must be measured from the moment when all components are introduced in mixer vessel;

- it will work with the quantity of mixing water for a spreading value of: .....mm – **specified by CEPROCIM;**
- before testing, the mixture must be slowly agitated with the hand, with a mortarboard or with a levelling palette for 5 seconds until 10 seconds in opposite directions in order to avoid any false setting but without any supplementary mixing of the mixture;
- apparent density of the fresh mortar, according to SR EN 1015-6:2001 + SR EN 1015-6:2001/A1:2007, will be expressed in  $\text{kg/m}^3$ ;
- the press will be in good state and with updated metrology check done;
- recommended speed for load applications is of: N/s – **specified by CEPROCIM;**
- mechanical strength will be determined at the term of 28 days, according to SR EN 1015-11:2002 + SR EN 1015-11:2002/A1:2007, and will be expressed in  $\text{N/mm}^2$ .

Results of the determinations for fresh mortar consistency and of density put at disposal by CEPROCIM S.A. will be filled in the **FORM I**.

Results of determination for mechanical strength on mortar for masonry put at disposal by CEPROCIM S.A. will be filled in the **FORM II**.

*We remind you that the results of your tests must be sent to CEPROCIM S.A. no later than 1<sup>st</sup> of April 2011.*

CEPROCIM S.A.  
#6 BLVD. PRECIZIEI  
SECTOR 6, POSTAL CODE 062203  
BUCHAREST  
ROMANIA  
Fax: 0040 - 21 - 318 88 94; 0040 - 21 - 318 88 76  
Phones: 0040 - 21 - 318.88.93; 0040 - 21 - 318.88.84; 0040 - 21 - 318 88 90  
<http://www.ceprocim.ro>  
e-mail: [mariana.coarna@ceprocim.ro](mailto:mariana.coarna@ceprocim.ro); [graziela.guslicov@ceprocim.ro](mailto:graziela.guslicov@ceprocim.ro)

NOTE: In order to create the data base with your firm name, full address, prefix, phone number, fax number, email, internet address, laboratory department manager, etc., please fill in your data in the empty spaces.

Company denomination / Laboratory .....

Company head-office/laboratory:Street .....

Nr. .... Locality ..... Sector ..... Postal code ..... County .....

Prefix/ Phone .....

Prefix/ Fax ..... Internet address: http:// .....

E-mail .....

## Density in fresh state, according to SR EN 1015-6 (kg/m<sup>3</sup>)

**FORM I**

<b>Mixer type</b> : .....					
<b>Consistency of fresh mortar, according to SR EN 1015-3</b>					
No. crt.	Mixing water/ 1 kg  (ml)	Spreading value			Mean of two determinations  (mm)
		Diameter mortar-direction 1 (mm)	Diameter mortar-direction 2 (⊥1) (mm)	Mean on the two directions  (mm)	
1	_ _ _  ,  _	_ _ _	_ _ _	_ _ _	_ _ _
2	_ _ _  ,  _	_ _ _	_ _ _	_ _ _	
<b>Density in fresh state, according to SR EN 1015-6</b>					
No. crt.	Mixing water / 1 kg  (ml)	Total weight of each individual sample  (g)	Apparent density of fresh mortar  (kg/m <sup>3</sup> )	Mean of the two determinations  (kg/m <sup>3</sup> )	
1	_ _ _  ,  _	_ _ _  ,  _ _	_ _ _	_ _ _	
2	_ _ _  ,  _	_ _ _  ,  _ _	_ _ _		

**Laboratory Department Manager**

Name:

Signature:

Company denomination / Laboratory .....

Company head-office/laboratory:Street .....

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## Mechanical strength, according to SR EN 1015-11 (N/mm<sup>2</sup>)

**FORM II**

<b>Maximum capacity of press :</b> .....kN		
<b>Maximum size of scale on which the test was made :</b> .....kN		
<b>Failure speed :</b>		N/s
<b>Total weight at demoulding of the 3 samples of 40 × 40 × 160 mm (g)</b>	_ _ _ _  ,  _	_ _ _ _  ,  _
Nr. crt.	Flexural strength at 28 days, according to SR EN 1015-11 (N/mm <sup>2</sup> )	Compression strength at 28 days, according to SR EN 1015-11 (N/mm <sup>2</sup> )
1	_  ,  _ _	_ _  ,  _ _
2	_  ,  _ _	_ _  ,  _ _
3	_  ,  _ _	_ _  ,  _ _
4		_ _  ,  _ _
5		_ _  ,  _ _
6		_ _  ,  _ _
<b>Mean</b>	_  ,  _	_ _  ,  _

**Laboratory Department Manager**

Name:

Signature: