



# BUILDING ENERGY PERFORMANCE LABORATORY

## Test Report for Solar Reflectance Index (SRI)



T-2169

Report No: BEPL/RPT/SRI/142

Report Date: 28<sup>th</sup> January 2015

### Report of test carried out by CEPT – CARBSE: BEPL for Solar Reflectance Index of Supplied Material

The test results of the specimen submitted for Solar Reflectance Index on date 23<sup>rd</sup> January 2015 are as under:

#### 1. Customer Information

- 1.1. Name of the Organization : AB Ceramic Services  
1.2. Contact Person : Ari Bhai  
1.3. Address : 11, Pon Nagar,  
Jayankondam, Ariyalur District,  
Tamil Nadu – 621802  
(Tiles Supplied to The Executive Engineer,  
Tamil Nadu Police Housing Corporation Ltd,  
Melakottaiyur project, Chennai, Tamil Nadu)  
1.4. Phone Numbers : 09047573230  
1.5. Fax Number : ---  
1.6. Email : abc@abceramic.in

#### 2. Sample Details

- 2.1. Sample Identification Number : SRI/01/15/1143  
2.3 Date of Test : 27<sup>th</sup> January 2015  
2.4 Name and any other pertinent  
Identification of the material (including physical description): abc Weather Proof S.R.I Tiles (ABC-01)  
2.5 Thickness of the specimen (Reported) : 9 mm  
2.6 Thickness as tested : Not Applicable  
2.7 Condition of Sample when received : Satisfactory  
2.8 Method and Environment used for conditioning (if used) : Not Applicable  
2.9 No. of Surfaces : Not Applicable  
2.10 The type of surfaces : Not Applicable  
2.11 Position of panes (if Multiple Glazed) : Not Applicable  
2.12 The position of coating(s) designating faces of the panes as 1, 2, 3 starting from the outer surface of pane 1:  
Not Applicable  
2.13 The face of the panes (if Coated) : Not Applicable  
2.14 Instrument used : Spectrophotometer with integrating sphere with reference material  
spectralone & FTIR with IR specular reflection set.  
2.15 Boundary Conditions (Test Method) : As per ASTM E 1980-11, EN 673:2011, and EN 410:2011.  
2.16 Tested By : Mr. Jigar Patel, Lab Technician



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### 3. Results of the measurement:

#### Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
abc Weather Proof S.R.I Tiles	SRI/01/15/1143	0.7552	0.7556	0.7562	0.7557

#### Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
abc Weather Proof S.R.I Tiles	SRI/01/15/1143	0.841	0.841	0.841	0.841

#### Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
		Low Wind( $h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$ )	Medium Wind( $h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$ )	High Wind( $h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$ )
abc Weather Proof S.R.I Tiles	SRI/01/15/1143	92	93	93

#### Surface Temperature ( $T_s$ ) under different wind conditions

Sample name	Sample ID	Surface Temperature ( $^{\circ}\text{C}$ )		
		Low Wind( $h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$ )	Medium Wind( $h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$ )	High Wind( $h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$ )
abc Weather Proof S.R.I Tiles	SRI/01/15/1143	53.9	47.4	42.2

### 4. Certificate of Accuracy:

This is to certify that the test results herein presented are, to the best of my knowledge, true and accurate representations of the samples submitted.

Yashkumar Shuklal  
Technical Director  
Building Energy Performance Laboratory  
Disclaimer:

1. The CARBSE / BEPL are not responsible for any kind of alterations in the physical property of the sample and the customer is solely responsible for it and its consequences.
2. Result relates to the sample tested only. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
3. Any complains about this report should be communicated in writing within 7 days of issue of the report.
4. The test report shall not be reproduced fully or partially or in parts and cannot be used as an evidence in a court of law and shall be used in advert singeing media without written approval of Executive Director, BEPL