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# APPROVAL REPORT

**Project No:** PR447209  
**Class:** 4470, 4482  
**Product Name:** Cool-R  
**Name of Listing Company:** Selena FM SA  
**Address of Listing Company:** ul. Strzegomska 2-4  
Wroclaw 53-611  
Poland  
**Customer ID:** 254242-1  
**Customer website:** <http://www.selena.com/en>

**Prepared by**

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**Reviewed by**

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**3/29/2022**

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**Date of Approval**

**1 INTRODUCTION**

1.1 Selena FM SA requested Approval of their Cool-R coating to determine if it meets the Approval requirements of the standard(s) listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

**1.3 Standard(s)**

Title	Number	Issue Date
Single-Ply, Polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for use in Class 1 and Noncombustible Roof Deck Construction	4470	12/2016
Examination Standard for Roof Maintenance Coatings	4482	10/2021

**1.4 Listing**

The products and assemblies will be listed in RoofNav, an on-line resource of FM Approvals. Formulations, drawings and specifications are on file at FM Approvals.

**2 DESCRIPTION**

The Cool-R coating is described as follows:

**2.1 Liquid Applied Roof Cover and Maintenance Coating:**

Trade name	Cool-R
Material Type	Acrylic
Color	White, Gray

2.2 All other products are as described in RoofNav.

**3 EXAMINATIONS AND TESTS**

3.1 All components, except those in Section(s) 2.1, were produced under the FM Approvals Surveillance Audit program as indicated by FM Approvals labels. All samples were considered to be representative of standard production and were examined and tested as indicated below. Components incorporated into test samples were selected by FM Approvals personnel. Test samples were prepared by, or under the supervision of, FM Approvals personnel. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 Several performance requirements and tests required by the Standard(s) have been waived. See Table 1 and Table 2 below for details.

Table 1

FM Standard 4470 Performance Requirement	Original Project ID(s)
Combustibility From Above the Roof Deck	Conducted in PR447209
Combustibility From Below the Roof Deck	Not required for Recover (<1 in [25 mm] insulation) and Class NC

Hail Damage Resistance Test	Conducted in PR447209
Water Leakage Resistance Test	Conducted in PR447209
Foot Traffic Resistance Test	Conducted in PR447209
Susceptibility to Heat Damage Test	Waived <sup>1</sup>
Corrosion Resistance Test	Waived <sup>2</sup>
Wind Uplift Resistance	Conducted in PR447209
NCC Rated Roof Insulation	Optional – not requested
Dynamic Puncture Resistance Rating	Optional – not requested
Solar Reflectance of Roof Surfaces	Optional – not requested
Identification Tests	Not required, testing performed at the sole discretion of FM Approvals

<sup>1</sup> No insulation products in the new assemblies.

<sup>2</sup> No fastener products in the new assemblies.

Table 2

FM Standard 4482 Performance Requirement	Original Project ID(s)
Combustibility From Above the Roof Deck	Conducted in PR447209, see FM4470 requirement
Identification Tests	Not required, testing performed at the sole discretion of FM Approvals
Additional Tests	Not required

## 4 MARKING

4.1 Marking on the product or, if not possible due to size, on its packaging or label accompanying the product, shall include the following information:

- name and address of the manufacturer or marking traceable to the manufacturer;
- date of manufacture or code traceable to date of manufacture or lot identification;
- model number, model type and/or product trade name as appropriate.

When hazard warnings are needed, the markings shall be universally recognizable.

4.2 The product trade name, model number or model type identification shall correspond with RoofNav, the manufacturer's catalog designation and shall uniquely identify the product as FM Approved. The manufacturer shall not place this trade name or model number identification on any other product unless covered by a separate agreement with FM Approvals.

4.3 The Approval Mark shall be displayed visibly and permanently on the product and/or packaging as appropriate. The manufacturer shall not use this Mark on any other product unless such product is covered by a separate FM Approvals Approval Report.

4.4 Markings denoting Approval by FM Approvals shall be applied by the manufacturer only within and on the premises of manufacturing locations that are under the FM Approvals Surveillance Audit program.

4.5 The manufacturer agrees that use of the FM Approvals name or Approval Mark is subject to the conditions and limitations of the Approval by FM Approvals. Such

conditions and limitations must be included in all references to Approval by FM Approvals.

**5 REMARKS**

The roof cover must be installed using a roof perimeter flashing system Approved by FM Approvals. See RoofNav.

**6 SURVEILLANCE AUDIT**

The manufacturing facilities at the following location(s) shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that tested and Approved. An FM Approved Products/Specification Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

**Audit Location(s)**

Pieszycza 3  
58-200 Dzierzoniow  
Poland

Selena Labs  
Pieszycza 1  
58-200 Dzierzoniow  
Poland

**7 MANUFACTURER'S RESPONSIBILITIES**

7.1 The manufacturer shall notify FM Approvals of any planned change in the Approved products, prior to general sale or distribution, using the FM Approved Products/Specification Tested Revision Request Form. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals.

7.2 To ensure compliance with his procedures in the field, the manufacturer shall supply to the installer such necessary instruction or assistance required to produce the desired performance achieved in the tests.

7.3 In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.

**8 DOCUMENTATION**

The following document describes the Cool-R coating and is on file at FM Approvals.

Document Title	Issue Date
Surveillance Audit Manuals @ Dzierzoniow	March 2022

**9 CONCLUSIONS**

**9.1** Test results from this program indicate that the submitted products as evaluated, meet the requirements FM Approvals Standard(s) listed in section 1.3 when installed as follows:

**9.1.1**

Recover – Composite panel, Standing or lap seam (Insulated or uninsulated)	
Liquid Applied (Top Coat):	Cool-R at a rate of 1.6 gal/sq (0.7 L/m <sup>2</sup> ) [0.9 kg/m <sup>2</sup> (18.4 lbs/sq)]
Liquid Applied (Base Coat):	Cool-R at a rate of 1.6 gal/sq (0.7 L/m <sup>2</sup> ) [0.9 kg/m <sup>2</sup> (18.4 lbs/sq)]
Recover – Existing Roof	FM Approved metal faced Composite panel cover, Standing or lap seam (Insulated or uninsulated)
Wind / Hail:	1-510 / Class 1-SH, wind not to exceed the existing roof
ASTM E 108:	Max Class A @ 1.5 in 12, not to exceed rating of existing roof

**9.1.2**

Maintenance Coating Approval – Composite panel, Standing or lap seam (Insulated or uninsulated)	
Description:	Two coats of Cool-R applied at a rate of 1.6 gal/sq (0.7 L/m <sup>2</sup> ) [0.9 kg/m <sup>2</sup> (18.4 lbs/sq)] each over existing FM Approved Composite panel cover, standing or lap seam (Insulated or uninsulated)
Existing Roof	FM Approved metal faced Composite panel cover, Standing or lap seam (Insulated or uninsulated)
ASTM E 108:	Max Class A @ 1.5 in 12, not to exceed rating of existing roof

**9.2** Tests show that the tested roof constructions in and of themselves would not create a need for automatic sprinklers.

**9.3** Since a duly signed Master Agreement is on file for this customer, Approval is effective as of the date of this report.

**9.4** Continued Approval will depend upon satisfactory field experience and periodic Facilities and Procedures Audits.

**PROJECT DATA RECORD:** PR447209

**ORIGINAL TEST DATA** None