

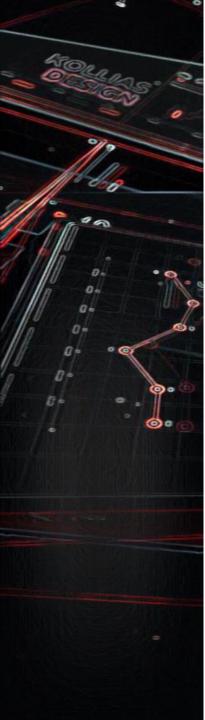
# ΒΙΟΜΗΧΑΝΙΚΟ ΠΥΡΑΝΤΟΧΟ ΡΟΛΟ ΕΙ60





ΣΥΝΟΠΤΙΚΟ ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ





### ΠΙΣΤΟΠΟΙΗΤΙΚΑ ΚΑΤΑΤΑΞΗΣ ΠΥΡΑΝΤΙΣΤΑΣΗΣ - ΕΝ 13501-2:2016

NATIONALTECHNICAL UNIVERSITY OF ATHENS SCHOOL OF APPLIED MATHEMATICAL AND PHYSICAL SCIENCES DEPARTMENT OF MAECHANICS LABORATORY OF TESTING AND MATERIALS Issuing Date 28-02-2022 CLASSIFICATION REPORT FOR ROLLING SHUTTER

Code: 0-06-EN-2.4 Page:1/6

#### NATIONAL TECHNICAL UNIVERSITY OF ATHENS





SCHOOL OF APPLIED MATHEMATICALAND PHYSICAL SCIENCES DEPARTMENT OF MECHANICS LABORATORY OF STRENGTH AND MATERIALS 5. HEROES OF POLYTECHNIOY AVENUE THEOHARIS BUILDING GR 157 80, ZOGRAFOU

2 (210) 772 1150, Fax (210) 772 1302 Email: tsopelas@central.ntua.gr

### CLASSIFICATION OF FIRE RESISTANCE

in accordance with EN 13501-2:2016

KOLLIAS LTD 3rd km KATERINI - THESSALONIKI NATIONAL ROAD, P.O.BOX KATERINI 60100, GREECE Sponsor Tax. Reg. Number: 095675664 Tel: +30-23510.36036, fax: +30-23510.45630 Email: info@kolliasdoors.com

Laboratory of Strength and Materials **National Technical University of Athens** 

Notified Body No: Product Name

Prepared by

Fire Rolling Shutter commercial name "RSM-FR 100"

Classification Report Issue No.

01-C /2022 15.04.2022

NB 2739

#### 1. INTRODUCTION

Date of Issue

This classification report defines the classification assigned to the Fire Rolling Shutter under the commercial name "RSM-FR 100", for integrity and thermal insulation, in accordance with the procedures described in EN 13501-2::2016

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#### 4. CLASSIFICATION

#### 4.1. Reference of Classification

The classification of the tested element is carried out in accordance with Clause 7 of EN13501-2:2016

#### 4.2. Classification

The element:

### «Fire Rolling Shutter

UNDER THE COMMERCIAL NAME "RSM-FR 100"».

is classified as follows:

7	El <sub>2</sub> 60	CATEGORY A
	E 120	CATEGORY B

#### 5. FIELD OF DIRECT APPLICATION

#### 5.1. General

Any significant deviation with respect to size, construction details, load stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

The field of direct application defines the allowable changes to the test specimen following a successful fire resistance test. These variations can be applied automatically without the need for the sponsor to seek additional evaluation, calculations or approval.

NOTE When extended product size requirements are envisaged, the dimensions of certain components within the test specimen can be less than those intended to be used at full size in order to maximize the extrapolation of the test results by modelling the interaction between components at the same scale.

Where referred to annex B or annex C in this paragraph, the annexes in EN 1634-1:2014 are

#### 5.2. Materials and Construction

Unless otherwise stated in the following text, the materials and construction of the rolling shutter door-set shall be the same as that tested. The number of leaves and the mode of operation (e.g. sliding, single action or double action) shall not be changed.

#### 5.2.2. Specific restrictions on materials and construction

#### 5.2.2.1. Metal construction

The dimensions of metal wrap around frames may be increased to accommodate increased supporting construction thickness. The thickness of the metal may also be increased by up to 25%

The type of metal shall not be changed from that tested

The number of stiffening elements for uninsulated doors and the number and type of fixings of such members within the panel fabrication may be increased proportionally with the increase in size but shall not be reduced

#### 5.2.3. Decorative finishes

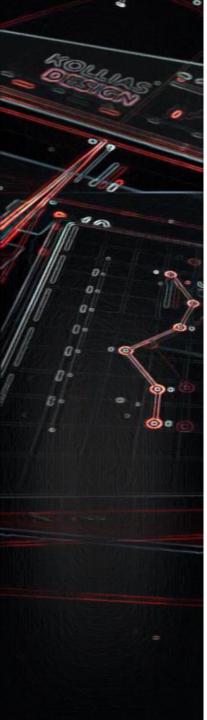
#### 5.2.3.1. Paint-Fixings-Building hardware Metal construction

Where the paint finish is not expected to contribute to the fire resistance of the door, alternative paints are acceptable and may be added to door leaves or frames for which

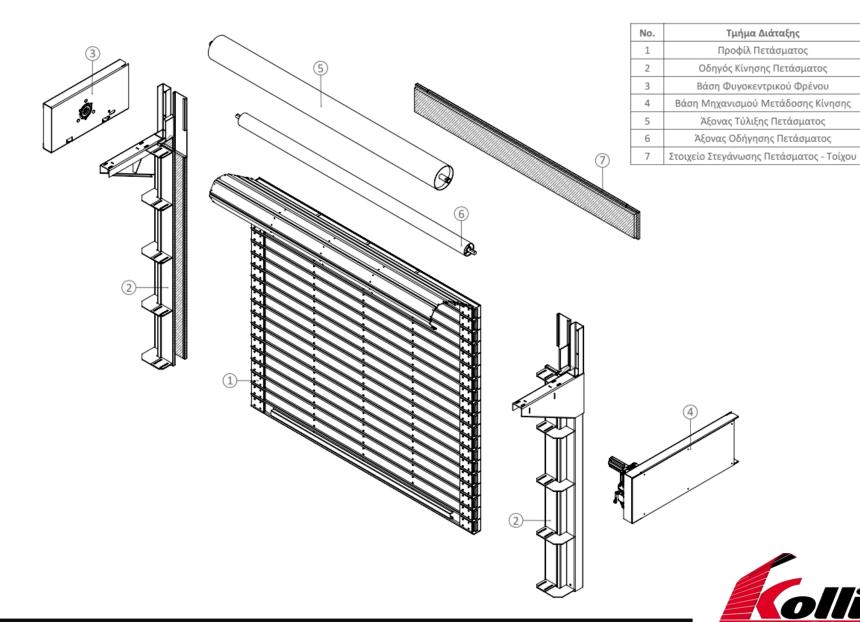
National Technical University of Athens - Laboratory of Strength and Materials - Test Serial Nr: 01-C /2022

Applicant: KOLLIAS LTD - Specimen: Fire Rolling Shutter with commercial name "RSM-FR 100" This Classification Report consists of three (Number) pages and may only be used in its entirety

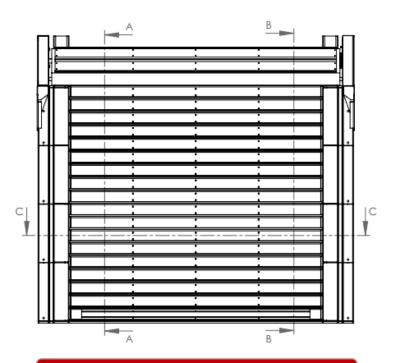


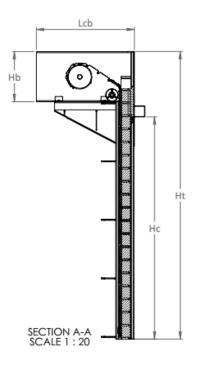


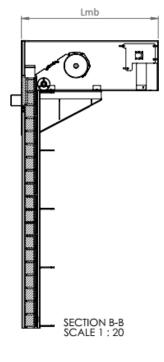
## ΣΤΟΙΧΕΙΑ ΣΥΝΘΕΣΗΣ ΠΥΡΑΝΤΟΧΟΥ ΡΟΛΟΥ



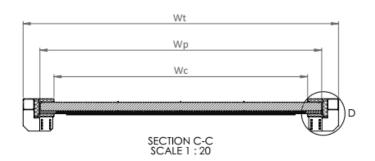
## ΒΑΣΙΚΕΣ ΔΙΑΣΤΑΣΕΙΣ – ΟΛΙΚΟ ΠΛΑΤΟΣ ΔΙΑΤΑΞΗΣ

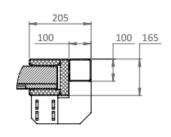






### $W_t = W_p + 260 \text{mm}$





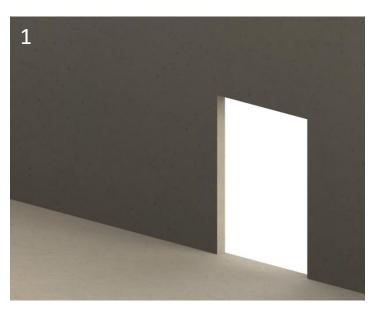
DETAIL D SCALE 1:10

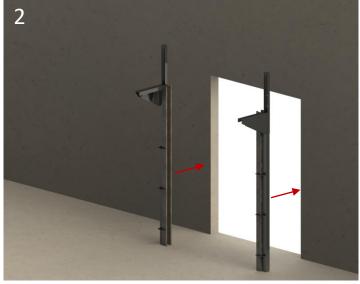
Wt	Ολικό Πλάτος Διάταξης	
Wp	Μήκος Προφίλ	
Wc	Καθαρό Πλάτος Διέλευσης	
Ht	Ολικό Ύψος Διάταξης	
Нс	Καθαρό Ύψος Διέλευσης	
Hb	Ύψος Βάσης	
Lcb	Μήκος Βάσης Φυγοκεντρικού Φρένου	
Lmb	Μήκος Βάσης Συστήματος Κίνησης	

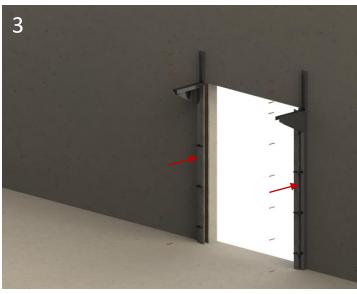


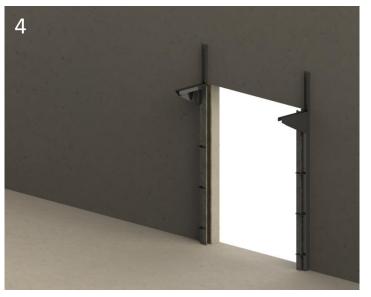


# ΜΕΘΟΔΟΛΟΓΙΑ ΕΓΚΑΤΑΣΤΑΣΗΣ – ΣΤΑΔΙΑ 1-4





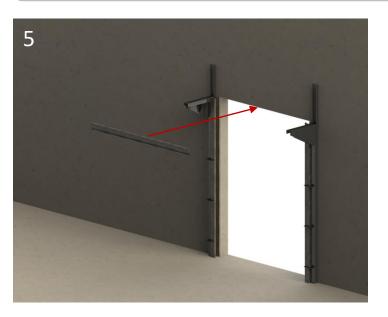




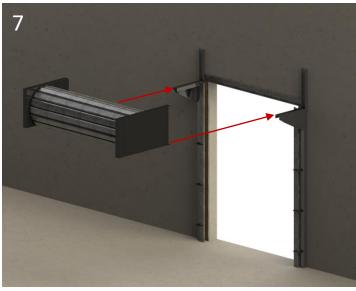




# ΜΕΘΟΔΟΛΟΓΙΑ ΕΓΚΑΤΑΣΤΑΣΗΣ – ΣΤΑΔΙΑ 5-8





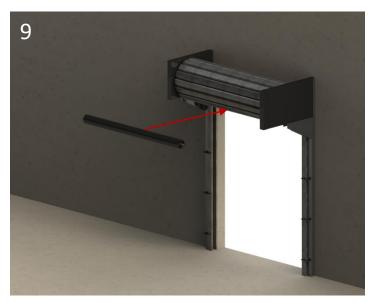




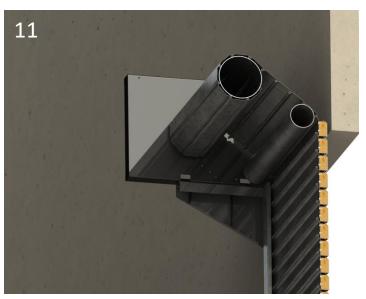


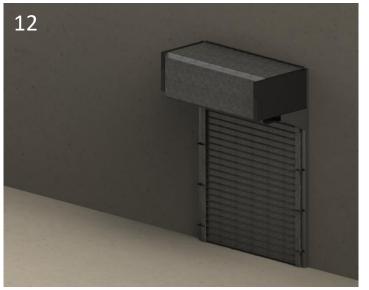


## ΜΕΘΟΔΟΛΟΓΙΑ ΕΓΚΑΤΑΣΤΑΣΗΣ – ΣΤΑΔΙΑ 9-12

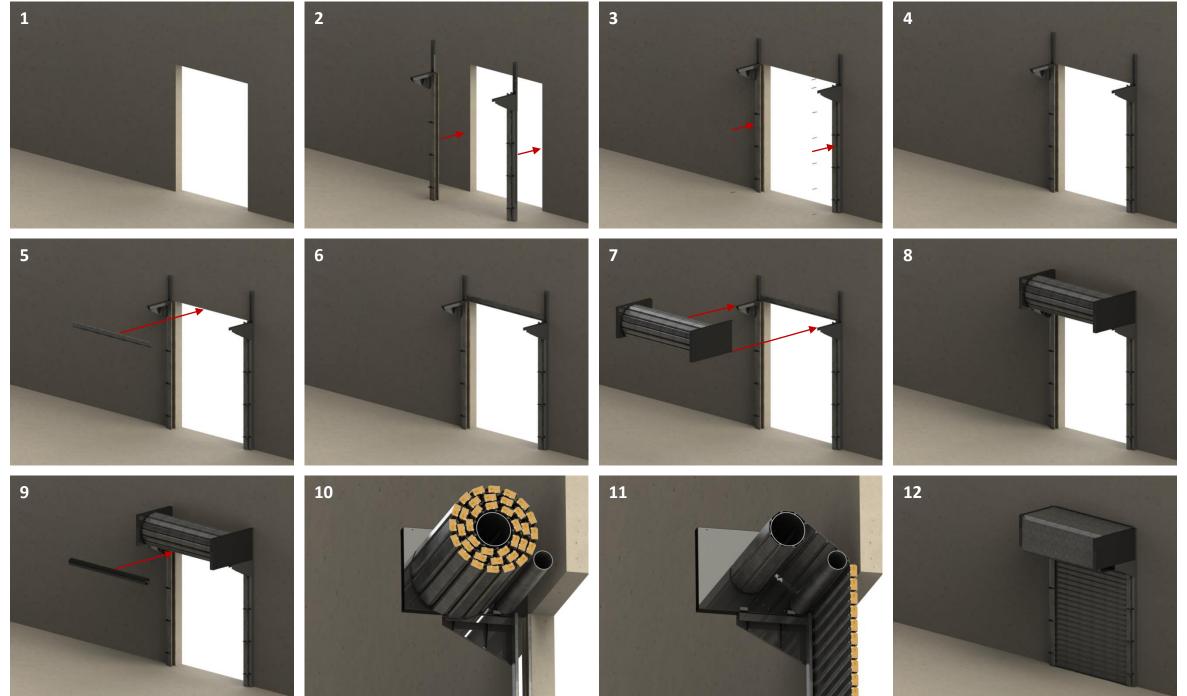


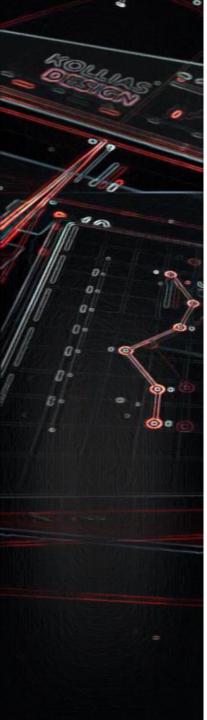












### Όμιλος Εταιρειών

### **KOLLIAS LTD – SMART DOORS**

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