

DECLARATION OF PERFORMANCE N. 1219 – CPR – 0082 – 2021.v2.FR

1. Unique identification of the product-type:

etalbond® FR Riveted Boards
etalbond® FR Suspended Cassettes

2. Intended use: **Kits for external wall claddings mechanically fixed according to ETA 14 / 0145 v. 4 of 30/12/2020**

3. Name and contact address of the manufacturer: **ELVAL COLOUR S.A.**

3rd km. Inofyta Peripheral Rd. 32011 Saint Thomas. Viotia. Greece. www.elval-colour.com

4. Authorized representative: **Not applicable**

5. System of assessment and verification of constancy of performance: **1**

6. The declaration of performance concerns a construction product for which a European Technical Approval has been issued: **ETA 14/0145 version 4 of 30/12/2020 issued by Instituto de Ciencias de Construcción Eduardo Torroja (IETcc), Spain, according to European Assessment Document (EAD) 090062-00-0404 ed. July 2018. Kits for external wall claddings mechanically fixed. IETcc Notified product certification body: N° 1219**

7. Declared performance

n.	Essential characteristic	Performance	EAD 090062-00-0404 ed. July 2018
BWR 2: Safety in case of fire			
1	Reaction to fire	Class B-s1,d0	§ 2.2.1 of EAD
2	Façade fire performance	No Performance Assessed	§ 2.2.2 of EAD
3	Propensity to undergo continuous smouldering	No Performance Assessed	§ 2.2.3 of EAD
BWR 3: Hygiene, health and the environment			
4	Watertightness of joints (protection against driven rain)	Purposeless. Kit not watertight	§ 2.2.4 of EAD
5	Water absorption of cladding	No Performance Assessed	§ 2.2.5 of EAD
6	Water permeability and water vapour permeability	No Performance Assessed	§ 2.2.6 of EAD
7	Drainability	Allowed	§ 2.2.7 of EAD
8	Content, emission and/or release of dangerous substances	No Performance Assessed	§ 2.2.8 of EAD
BWR 4: Safety in use			
9	Wind load resistance	See Tables 1 to 4 of ETA 14-0145 for etalbond® FR (3,4,6) mm Riveted Boards	§ 2.2.9 of EAD
		See Tables 5 to 8 of ETA 14-0145 for etalbond® FR (3,4,6) mm Suspended Cassettes	§ 2.2.9 of EAD
10.	Resistance to horizontal point loads	See Table 9 of ETA 14-0145	§ 2.2.10 of EAD
11.	Impact resistance	See Table 10 of ETA 14-0145	§ 2.2.11 of EAD
Index of mechanical resistances characteristics applicable			
12	Mechanical resistance of cladding element	See Annex B.2 of ETA 14-0145	§ 2.2.12.1 of EAD
15	Pull through resistance of cladding element	See Table 11 of ETA 14-0145 for etalbond® FR Riveted Boards	§ 2.2.12.4 of EAD
16	Pull through resistance under shear load	See Table 12 of ETA 14-0145 for etalbond® FR Riveted Boards	§ 2.2.12.5 of EAD
20	Resistance of slot	See Table 13 of ETA 14-0145 for etalbond® FR Suspended Cassettes	§ 2.2.12.9 of EAD
24	Resistance of profiles	See Table 14 of ETA 14-0145	§ 2.2.12.13 of EAD
25	Tension/pull out resistance of subframe fixings:	See Table 15 of ETA 14-0145	§ 2.2.12.14 of EAD
26	Shear load resistance of subframe fixings:	See Table 15 of ETA 14-0145	§ 2.2.12.15 of EAD
27	Bracket resistance (horizontal loads)	See Table 16 of ETA 14-0145	§ 2.2.12.16 of EAD
	Bracket resistance (vertical load)	See Table 17 of ETA 14-0145	§ 2.2.12.16 of EAD
BWR 5: Protection against noise			




n.	Essential characteristic	Performance	EAD 090062-00-0404 ed. July 2018
28	Protection against noise	No Performance Assessed	§ 2.2.13 of EAD
BWR 6: Energy economy and heat retention			
29	Thermal resistance	Not relevant	§ 2.2.14 of EAD
Aspects of durability: Index of characteristics applicable for the kit based on thin metallic composite panel as cladding material			
30	Hygrothermal behavior of the kit	Not relevant	§ 2.2.15.1 of EAD
37	Corrosion resistance of subframe	Durability rating B	§ 2.2.15.8 of EAD
38	Decay of delamination resistance after hygrothermal cycles	Aged value \geq 75% initial value	§ 2.2.15.9 of EAD
39	Decay of delamination resistance after immersion in water 6 h 90° C	Aged value \geq 75% initial value	
40	Decay of delamination resistance after immersion in water 50 h 20° C	Aged value \geq 75% initial value	
41	Decay of delamination resistance after freeze-thaw cycles	Aged value \geq 75% initial value	
42	Decay of delamination resistance after long term exposure to heat	Aged value \geq 75% initial value	
43	Decay of flexural resistance after hygrothermal cycles	Aged value \geq 75% initial value	
44	Decay of flexural resistance after immersion in water 6 h 90° C	Aged value \geq 75% initial value	
45	Decay of flexural resistance after immersion in water 500 h 20° C	Aged value \geq 75% initial value	
46	Decay of flexural resistance after freeze-thaw cycles	Aged value \geq 75% initial value	
47	Decay of flexural resistance after long term exposure to heat	Aged value \geq 75% initial value	
48	Decay of flexural stiffness after short term exposure (1 h 80 °C) increase of deflection (mm) at centre of span	Aged value $<$ 125% of initial value	
51	Corrosion infiltration after exposure to salt spray	Satisfactory for colour metallic PVDF 27-35 microns	
52	Resistance to humidity of coil coated aluminium sheet (silver metallic PVDF)	No defects 500 and 1000 h (PVDF). Index 3	
53	Retention of colour and gloss after humidity (silver metallic PVDF)	Not applicable / \geq 80% gloss initial value	
54	Retention of colour and gloss after UV and water condensation (silver metallic PVDF)	Not applicable / \geq 80% gloss initial value	
55	Retention of colour and gloss after accelerated ageing by heat (silver metallic PVDF)	Not applicable / \geq 80% gloss initial value	

8. The performance of the kit identified in points 1 and 2 is in conformity with the declared performance (point 7). This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

George Michalatos

Date: January 7th, 2021



Function: Technical Manager
Saint Thomas, Viotia, Greece