

# Classification Report



Fire Resistance Laboratory

**APPLICANT:**



DANA STEEL PROCESSING INDUSTRY LLC

**CLASSIFICATION OF THE FIRE RESISTANCE  
ACCORDING TO STANDARD EN 13501-2:2016**

- Specimen: ..... metal sandwich panels roof
  - Manufacturer:..... © DANA STEEL PROCESSING INDUSTRY LLC
  - Reference:..... © “50 mm ROCKWOOL DCP 35/200 SANDWICH PANELS ROOF”

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**3. TEST REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION**
**3.1.- TESTS PERFORMED**
**Test reports**

Issuing laboratory	Applicant	Report	Test method
<b>AFITI-LICOF</b> Camino del Estrechillo, 8 28500 – Arganda del Rey (Madrid)	<b>DANA STEEL PROCESSING                      INDUSTRY LLC</b> Factory: Unit no 11, Emirates Modern Industrial area, Umm- al-Quwain, (UAE). Head office: Suite No. 405-406, B Block, Centurion Star Building Opposite Deira City Centre, Dubai (UAE).	No.: <b>9664/19</b>  Test date: 05 <sup>th</sup> -Feb-19	UNE-EN 1365-2:2016 UNE-EN 1363-1:2015
Notified Body No.: <b>1168</b>			

**Conditions of exposure**

Temperature curve / time:	Standard
Number of exposed sides:	One (exposure on the bottom side)

**Test results**

		Specimen No. <b>9664A</b>
<b>Loadbearing capacity (R)</b>	.....	<b>240 minutes<sup>(F)</sup></b>
Deflection	.....	240 minutes <sup>(F)</sup>
Rate of deflection	.....	240 minutes <sup>(F)</sup>
<b>Integrity (E)</b>	.....	<b>240 minutes<sup>(F)</sup></b>
Cotton pad	.....	240 minutes <sup>(F)</sup>
Gap gauges $\varnothing$ 6 mm	.....	240 minutes <sup>(F)</sup>
Gap gauges $\varnothing$ 25 mm	.....	240 minutes <sup>(F)</sup>
Sustained flames > 10 s	.....	240 minutes <sup>(F)</sup>

(F): End of specimen evaluation without failure of this criterion



#### 4. CLASSIFICATION AND FIELD OF APPLICATION

##### 4.1. CLASSIFICATION STANDARD

This classification has been carried out in accordance with the clause 7.3.3 of the standard EN 13501-2:2016.

##### 4.2. CLASSIFICATION

The product "50 mm ROCKWOOL DCP 35/200 SANDWICH PANELS ROOF" is classified according the following combination of performance parameters and classes.

**Fire Resistance Classification**

**RE 240**

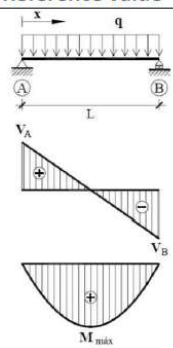
The following classifications are allowed:

<b>RE</b>	20	30	60	90	120	180	240
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##### 4.3. FIELD OF APPLICATION

According to the chapter 13 of the Standard UNE-EN 1365-2:2016, the tested element has the following field of application:

The classification obtained is also valid for the following modifications of the characteristics of the specimen without the need for further testing.

<u>Characteristics</u>	<u>Permitted modification</u>	<u>Reference value <sup>(1)</sup></u>
Structural building member	The maximum moment and shear forces, which when calculated on the same basis as the test load, shall not be greater than those tested.	 $R_A = R_B = \frac{qL}{2}$ $V_{AB} = q \left( \frac{L}{2} - x \right)$ $M_{AB} = \frac{qx}{2} (L - x)$ $M_{\max} = \frac{qL^2}{8}$
Inclination of roof constructions without glazing	In the 0 - 15° Range	Inclination angle 0°

(1) Reference values of the tested specimen on the basis of which the permitted modifications could be carried out.