

Classification Report



ENAC
E N S A Y O S
Nº 41/LE104

Reaction to Fire Laboratory

APPLICANT:



CLP POLYNUM INSOLATION, LTD.

**REACTION TO FIRE CLASSIFICATION ACCORDING TO STANDARD
UNE-EN 13501-1:2019.**

- **Material:** System made by thermal reflective insulation and gypsum plasterboard.
 - **Manufacturer:** CLP Polynum Insolation, Ltd
 - **Reference:** "POLYNUM DOUBLE BUBBLE"

REACTION TO FIRE CLASSIFICATION ACCORDING TO UNE-EN 13501-1:2019 STANDARD

Applicant: **CLP POLYNUM INSOLATION, LTD.**
Roma St. SENDRO (Israel)

Issuer Laboratory: **AFITI-LICOF**

Product: System made by thermal reflective insulation and gypsum plasterboard.

ⓄManufacturer CLP Polynum Insolation, Ltd

ⓄReference: "POLYNUM DOUBLE BUBBLE"

Classification Report Nr: **4478T22-2**

Date of issue: 14th-Feb-22



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The information held in this Classification Report is a confidential nature, meaning the Laboratory shall not provide information in relation to this report to third parties, except with the authorisation of the Applicant.

It is not allowed to reproduce partially this Classification Report without the Laboratory's written approval. In the declaration of compliance with the specification, the decision rule according to ILAC-G8:09/2019 (Binary Declaration for a simple acceptance rule) has been taken into account with a safety zone equal to $a_w = 0$ and a specific risk $< 50\%$ PFA (where PFA = probability of false acceptance). The uncertainties of the test results are available to the applicant for consultation if required.
The uncertainties of the test results are available to the applicant for consultation if required. The expanded uncertainty of measure (U) has been obtained by multiplying the typical uncertainty of measurement by the coverage factor $k = 2$ which, for a normal distribution, corresponds to a probability of coverage of approximately 95%.



1.- AIM OF THE REPORT

This Classification report defines the Reaction to Fire classification of the product of system made by thermal reflective insulation and gypsum plasterboard referenced as “POLYNUM DOUBLE BUBBLE” by the applicant on the basis of the procedures established in UNE-EN 13501-1:2019 “Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests”.

2.- DETAILS OF CLASSIFIED PRODUCT

2.1.- GENERAL

The products defined by applicant as “POLYNUM DOUBLE BUBBLE” are defined as thermal reflective insulation and gypsum plasterboard according to the corresponding technical specification.

2.2.- DESCRIPTION

The product is fully described in the test report is based on. This report is indicated in the chapter 3 of this report.

3.- REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION.

3.1.- TESTS

Test reports

Issuer laboratory	Applicant	Reports	Test standard	End use application
AFITI-LICOF Pol. Ind. Sta. M ^a de Benquerencia C/ Río Estenilla, s/n <u>45007-TOLEDO</u>	CLP POLYNUM INSOLATION, LTD. Roma St. SENDRO (Israel)	Nr: 4478T22 Date of issue: 14 th -Feb-22 Test date: 09 th -Feb-22	UNE-EN 13823:2021	Thermal reflective insulation for roof, external walls.
		Test date: 09 th -Feb-22	UNE-EN ISO 11925-2:2021	



Test results

 Test report nr **4478T22**

Test method	Parameters	Nr. test	Results	
			Continuous parameter mean (m)	Compliance with parameters
UNE-EN 13823:2021, S.B.I.	FIGRA _{0,2MJ} (W/s)	1	10,31	Non applicable
	FIGRA _{0,4MJ} (W/s)		Non applicable	Non applicable
	LSF < borde		Non applicable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	THR _{600s} (MJ)		1,1	Non applicable
	SMOGRA (m ² /s ²)		0,00	Non applicable
	TSP _{600 s} (m ²)		8,7	Non applicable
	Drops / Particles flamed		Non applicable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Test method	Parameters	Nr. test	Results	
			Continuous parameter mean (m)	Compliance with parameters
UNE-EN ISO 11925-2:2021	F _s ≤ 150 mm	2		
Esposure =30 s			Non applicable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Drops / Particles flamed			Non applicable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



4.- CLASSIFICATION AND FIELD OF APPLICATION

4.1.- CLASSIFICATION STANDARD

Reaction to Fire classification according to UNE-EN 13501-1:2019 standard.

4.2.- CLASSIFICATION

Product "POLYNUM DOUBLE BUBBLE" reaches the following classification:

Reaction to fire classification					
Fire behaviour			Smoke production		
B	—	s	1	,	Flaming droplets
					d 0
B – s1 , d0					

4.3.- FIELD OF APPLICATION

According to Technical Report Nr. 4478T22, the product "POLYNUM DOUBLE BUBBLE", has the following field of application.

Classification obtained is valid for the following simple characteristic variations, without further testing needed.

Characteristic/Property	Range allowed
Kind of product	System made by thermal reflective insulation and gypsum plasterboard.
Substrate	Particleboard not fire retardant substrates with density equal or higher to 510 kg/m ³ . Substrates in wood bases Substrates with a euroclass A1 or A2-s1,d0

5.- LIMITATIONS

This document does not represent type approval or certification of the product.

Toledo, 14th of February of 2022



Digitally Signed Document

Fdo.: David Sáez García
Technical Director
Fire Reaction Laboratory

