



Fire technical assessment

Name of sponsor: Knauf Danoline A/S
Product name: 12.5 mm perforated gypsum plasterboard
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Endorsement of Fire protection ability and reaction to fire

Knauf Danoline A/S has asked the Danish Institute of Fire and Security Technology (DBI) about a fire technical assessment regarding the combination of the fire protection ability and reaction to fire for the product designated "12.5 mm perforated gypsum plasterboard".

Fire technical documentation

Knauf Danoline A/S has referred to the following documentation:

Report no.	Laboratory	Dated	Owner	Standard	Classification
PC10070a	DBI	20-11-2006	Knauf Danogips A/S	EN 13501-1:2002 EN 14190:2005 Annex C	A2-s1,d0
PGA11352A	DBI	04-02-2019	Knauf Danoline A/S	EN 14135:2004	
PCA10541A	DBI	14-03-2019	Knauf Danoline A/S	EN 13501-2:2016	K ₁ 10 / K ₂ 10

Fire technical rationale

Knauf Danoline A/S has asked for a fire technical assessment regarding the combination of fire protection ability and reaction to fire for the product designated "12.5 mm perforated gypsum plasterboard".

DBI has evaluated the above mentioned reports belonging to Knauf Danogips A/S and Knauf Danoline A/S.

The classification report PC10070a refers to a range of products designated "Product Group 1". The range of products are described in the classification report and includes varieties of perforated gypsum plasterboards. According to classification report PC10070a the range of products in "Product Group 1" are classified reaction to fire class A2-s1,d0.

The classification report PCA10541A refers to the product designated "12.5 perforated gypsum plasterboard". The product is fully described in the test report PGA11352A and the classification report PCA10541A. According to classification report PCA10541A the product designated "12.5 mm perforated gypsum plasterboard" is classified fire protection ability class K₁ 10 and K₂ 10.

According to classification report PC10070a the reaction to fire classification is valid for the following product parameters:

- Perforated with a maximum individual hole area of 410 mm² and a perforation area between 10-20 %
- Face side is painted with paint with a maximum PCS-value of 0.56 MJ/m²
- Back side is equipped with a sound absorbing felt with a maximum PCS-value of 1.07 MJ/m² and glued with a glue with a maximum PCS-value of 0.09 MJ/m²

According to classification report PCA10541A the product designated "12.5 mm perforated gypsum plasterboard" is classified for a total percentage area of perforation for each board of maximum 19 % and an area of each perforation not exceeding 81 mm².



The product designated "12.5 mm perforated gypsum plasterboard" is – according to test report PGA11352A tested with the front side painted with a paint designated "NCS 0701 Y24R". According to Knauf Danoline A/S the applied paint is similar to "Krautol gloss 5" and fulfils the required 0.56 MJ/m² as referred to in PC10070a.

The product designated "12.5 mm perforated gypsum plasterboard" is – according to test report PGA11352A tested with a white acoustic sound felt (50 g/m²) on the backside. According to Knauf Danoline A/S the applied sound felt is similar to "Danotex 70, white" and fulfils the required 1.07 MJ/m² as referred to in PC10070a. Also the applied glue is according to Knauf Danoline A/S similar to "Danosil 7103" and fulfils the required 0.09 MJ/m² as referred to in PC10070a.

Assessment

It is the assessment of DBI, that the above mentioned classification reports can apply as documentation for the ability of the material according to the European classification system. This documentation can be applied where The Danish Building Regulation (BR18) refers to a covering class K₁ 10 B-s1,d0.

Therefore it has been assessed that the product designated "12.5 mm perforated gypsum plasterboard" fulfil the requirements for a combined fire protection ability and reaction to fire class

assessed

covering class K₁ 10 A2-s1,d0 and K₂ 10 A2-s1,d0

under the following conditions:

- All details as described in PC10070a are fulfilled
- All details as described in PCA10541A are fulfilled
- Any changes for the product shall be in accordance with direct field of application as specified in PCA10541A

Validity

This assessment is issued on the basis of test data and information available at the time of the issue. If contradictory evidence becomes available to DBI the assessment will be unconditionally withdrawn, and the manufacturer will be notified in writing. Similarly the assessment is invalidated if the assessed construction is subsequently tested because actual test data is deemed to take precedence over an expressed opinion. The assessment is valid for 5 years from the date of issue. DBI must reassess the validity after this period.

The assessment is only valid provided that no other modifications are made to the tested construction, other than those described in this report.



DBI

Limitation

This is a national assessment and can not be equated with a classification based on EN 13501-2:2016.

This assessment is only valid for the country where it is produced and as far as national rules are satisfied. Validity in other countries is subject to acceptance by the relevant national authorities/regulations.

This assessment is only valid for the product designated "12.5 perforated gypsum plasterboard" owned by Knauf Danoline A/S.

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