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Classification of Fire Resistance Performance in accordance with EN 13501-2:2023

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K-6055-DMT-DO

Customer	AGC Glass Europe Avenue Jean Monnet 4 1348 Louvain-la-Neuve Belgium
Compiled by	DMT GmbH & Co. KG DMT Test Laboratory for Fire Protection, Test Body for Fire Protection Hermann-Kemper-Straße 12a 49762 Lathen Germany
Number of notified body	2509 *(Horizontal notification for: EN 1364-1)*
Product	Non-loadbearing glazed partition
Product designation	Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame
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Prüfstelle für Brandschutz DMT

This classification report consists of 8 pages.

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1 Introduction

This classification report of fire resistance performance defines the classification assigned to a fire protection glazing wall with designation „Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame“ in accordance with the procedures given in EN 13501-2:2023.

2 Details of classified product

2.1 General

The building component „Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame“ in combination with fire protection glass panes “Pyrobel 42 DGU“ and “Pyrobel 42 TGU” is defined as a non-loadbearing internal partition assembly.

The building component „Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame“ is provided for the appropriation as a fire protection non-loadbearing partition. It fulfils specific performance characteristics for fire resistance behaviour according to section 5 of EN 13501-2 when flamed one-sided (section 5.2.2, 5.2.3 and 5.2.4).

The exposed side is not defined, as the glass panes were tested from the insulation glass pane and the fire protection glass pane and the frame was symmetrical.

2.2 Detailed product description

Frame: product: timber frame

Panes: product: Pyrobel 42 DGU / TGU

The product „Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame“ is a non-loadbearing glazed wall with timber frame profiles with glazing beads on both sides and fire resistant glass panes of type „Pyrobel 42“ with double and triple insulation construction and panel.

In the test report the building component is described completely, so the construction is described here only in rough outlines.

The timber profiles made of hardwood profiles beech with a raw density of minimum 650 kg/m³. It had a depth of 156 mm resp. 110 mm, depending on the filling thickness, and a width of 40 mm resp. 55 mm (transom / mullion). The connections were tenon-jointed and glued. At

both side glazing beads were positioned, material hardwoord beech, raw density minimum 650 kg/m³, dimensions 37 / 30 mm x 35 mm, chamfered.

The glass panes are of type „Pyrobel 42 DGU“ and “Pyrobel 42 TGU“. The basis is “Pyrobel 42“ with a total thickness of 42 mm, consisting of floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / PVB-foil, thickness 0,76 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm / intumescent layer, thickness 1,65 mm / floatglas, thickness 3 mm. For „Pyrobel 42 DGU“ an LSG made of floatglas, thickness 4 mm / PVB-foil, thickness 0,76 mm / floatglas, thickness 4 mm is set in front with a spacer of 16 mm. For “Pyrobel 42 TGU” with a space of 10 mm a Floatglass, thickness 6 mm is set in front, than the LSG made of floatglas, thickness 4 mm / PVB-foil, thickness 0,76 mm / floatglas, thickness 4 mm, also with an air space of 10 mm.

The maximum tested glass pane size was 1300 mm x 3000 mm.

The panel was made of 2 layers of Promatect-H with a thickness of 15 mm each. It has the dimensions 2665 mm x 580 mm.

Between glass and glazing bead glazing tape „Superwool X607“, manufacturer Odice, dimensions 20 mm x 5 mm, above sealing with silicone “Firestop 700”, manufacturer Dow.

The glazing wall was mounted to an associated supporting constructions for fire resistance class EI 120, double planked with 12,5 mm fire-resistant gypsum boards, stud depth 150 mm, with 50 mm insulation, density 100 kg/m³, total thickness 200 mm.

The building component is described completely in the test report and the report of extended application, which are referred to in section 3.1 for verification of classification.

3 Test reports / reports of extended classification and test results for verification of classification

3.1 Test reports

3.1.1 Test reports according to EN 1364-1

No.	Name of Laboratory No. of Notified Body	Name of sponsor	Test report no. dated	Test method
F1	DMT GmbH & Co KG 2509	AGC Glass Europe	DMT-DO-61-257 08.05.2023	EN 1364-1: 2015 EN 1363-1: 2020

3.1.2 Test results of test reports according to EN 1364-1

Test report number Brief description of the test specimen	Parameter	Results [min]
(F1) DMT-DO-61-257 Non-loadbearing assembly made of timber profiles with a thickness of 156 mm, with four pieces of fire protection glass panes “Pyrobel 42 DGU” and “Pyrobel 42 TGU” with an element size of 3740 mm x 3760 mm and a maximum glass pane size of 1300 mm x 3000 mm and one panel. Exposed side insulation glass pane / fire protection glass pane	Integrity (cotton pad)	101
	Integrity (gap gauge)	101
	Integrity (sustained flaming)	101
	Insulation I	95
	Radiation	101

3.2 Reports of extended application

Nr.	Test report no. dated	Name of Test Body Notified Body	Name of sponsor	Standard of extended application
E1	E-6115-DMT-DO 13.03.2025	DMT GmbH & Co. KG 2509	AGC Glass Europe	EN 15254-4: 2018

4 Classification and field of application

4.1 Reference of classification

This classification was carried out in accordance with EN 13501-2:2023, section 7.5.2.

4.2 Classification

The fire protection glazing wall of type „Pyrobel 42 DGU and Pyrobel 42 TGU in a timber frame“ of AGC Glass Europe with glass panes “Pyrobel 42 DGU” and “Pyrobel 42 TGU”, may be classified according to the following combinations of performance parameters and classes as appropriate.

R	**E**	**I**	**W**		**t**	**t**	**–**	**M**	**S**	**–**	**C**	**IncSlow**	**sn**	**ef**	**r**

E 90, EI 90, EW 90

4.3 Field of application

The scope of the classified component with direct and extended field of application is given in the test report and the report of extended application.

5 Limitations

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

Lathen, 13.03.2025

Prüfstelle für Brandschutz DMT

Kruse
(deputy head of test lab)

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Annotations

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NB numbers of the inspection bodies are given in the lists for the reports; information on the complete scope of notification of the respective body can be found in the NANDO database.