DMT

Ein Unternehmen der
TÜV NORD GROUP
Excellence for your Business

DMT GmbH & Co. KG
DMT Test Laboratory for Fire Protection

Test Body for Fire Protection

Tremoniastraße 13
44137 Dortmund
Germany

Branch
Hermann-Kemper-Straße 12a
49762 Lathen
Germany

Telefon +49 5933 92448-0
Telefax +49 5933 92448-25
dmt-firetest@dmt-group.com
www.dmt-group.com

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

- - - - - - - - - -

K-6057-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 in a timber frame
Nr. of the classification report	K-6057-DMT-DO
Issue number	1
Issue date	13.03.2025
Validity	unlimited

egolf member

Prüfstelle für Brandschutz DMT

This classification report consists of 8 pages.

TABLE OF CONTENTS **PAGE**

1 Introduction

This classification report of fire resistance performance defines the classification assigned to a fire protection glazing wall with designation „Pyrobel 42 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 in a timber frame“ in combination with fire protection glass panes “Pyrobel 42“ is defined as a non-loadbearing internal partition assembly.

The building component „Pyrobel 42 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 and the frame symmetrical.

2.2 Detailed product description

Frame: product: timber frame

Panes: product: Pyrobel 42

The product „Pyrobel 42 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 4”2.

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 122 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 hardwood beech, raw density minimum 650 kg/m³, dimensions 37 / 30 mm x 35 mm, chamfered.

The glass panes are of type „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.

The maximum tested glass pane size was 1450 mm x 3000 mm resp. 3000 mm x 1300 mm.

Decorative crossbars 25 mm x 25 mm made of Meranti were glued to the glass.

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 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-61-273 16.02.2023	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-61-273 Non-loadbearing assembly made of timber profiles with a thickness of 122 mm, with seven pieces of fire protection glass panes “Pyrobel 42” with an element size of 4690 mm x 5100 mm and a maximum	Integrity (cotton pad)	100
	Integrity (gap gauge)	100
	Integrity (sustained flaming)	100
	Insulation I	100

glass pane size of 1450 mm x 3000 mm resp. 3000 mm x 1300 mm. Exposed side symmetrical construction	Radiation	100

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-6117-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 in a timber frame“ of AGC Glass Europe with glass panes “Pyrobel 42”, 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

Kruse
(deputy head of test lab)

Prüfstelle für Brandschutz DMT

Kanjahn
(case worker)

Annotations

Documents without stamp and sign have no validity. The cover page and the sign page of this document are signed with the stamp.

This classification report has to be used and reproduced unchanged and entirely only. Extracts or abridgements are subjected to a written permission by DMT GmbH & Co. KG, Test Body for Fire Protection.

This classification report was delivered in digital format.

A publication requires the written approval of DMT GmbH & Co. KG, Test Body for Fire Protection.

Translations of this classification report have to include the annotation „Translation of the german original version not proven by DMT GmbH & Co. KG, Test Body for Fire Protection“. In cases of doubt the german original version of the report is valid.

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.