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

K-6046-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
Product	Non-loadbearing glazed partition
Product designation	Pyrobel T EW30-16 DGU
Nr. of the classification report	K-6046-DMT-DO
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Validity	unlimited

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ANNEXES 1.1 TO 1.10 OF CLASSIFICATION REPORT

1 Introduction

This classification report of fire resistance performance defines the classification assigned to a fire protection glazing wall with designation „Pyrobel T EW30-16 DGU“ in accordance with the procedures given in EN 13501-2:2023.

2 Details of classified product

2.1 General

The building component „Pyrobel T EW30-16 DGU“ as frame “Jansen ECO 60” in combination with fire protection glass panes “Pyrobel T EW30-16 DGU“ is defined as a non-loadbearing internal partition assembly.

The building component „Pyrobel T EW30-16 DGU“ 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).

An exposed side is not defined.

2.2 Detailed product description

Frame: product: Jansen ECO 60

Panes: product: Pyrobel T EW30-16 DGU

The product „Pyrobel T EW30-16 DGU“ is a non-loadbearing glazed wall with non-insulated steel frame profiles “Jansen ECO 60” with glazing beads on one side and fire resistant glass panes of type “Pyrobel-T EW30-16 DGU”.

The uninsulated profiles had a depth of 60 mm and a width of 50 mm resp. 70 mm resp. 90 mm with a wall thickness of 1.5 mm. All connections were welded. At one side, glazing beads were positioned.

The tested size was 3960 mm x 3940 mm, a height of 4356 mm with unlimited width is possible.

The glass panes were of type “Pyrobel-T EW30-16 DGU” with a total thickness of 39.5 mm, consisting of a toughened glass pane, thickness 6, interlayer, thickness 4, toughened glass

pane, thickness 6, spacer, thickness 15, float glass, thickness 4, PVB foil, thickness 0.76, float glass, thickness 4. The test was conducted with flaming on the insulation glass pane side.

Between glass and glazing bead resp. profile, glazing tape “Superwool X607”, dimensions 20 mm x 3 mm and sealing with silicone were placed. Around the glass edges towards the profile, intumescent tape “Flamiseal G”, dimension 2 mm x 39 mm was arranged.

The maximum glass pane size tested was 2000 mm x 3850 mm, a maximum of 2200 mm width and 4235 mm height with a maximum area of 8,47 m² is possible.

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, as also the annexes 1 to 10 of this classification report.

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-61-304 10.01.2024	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-61-304 Non-loadbearing assembly made of hollow uninsulated steel profiles “Jansen ECO 60” with a thickness of 60 mm and seven pieces of fire protection glass panes “Pyrobel T EW30-16 DGU” with an element size of 3940 mm x 3960 mm and a maximum glass pane size of 2000 mm x 3850 mm. Exposed side glazing beads side / insulation glass pane	Integrity (cotton pad)	36
	Integrity (gap gauge)	36
	Integrity (sustained flaming)	35
	Radiation	36

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-6009-DMT-DO 22.02.2024	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 door of type „Pyrobel T EW30-16 DGU“ of AGC Glass Europe with glass panes “Pyrobel T EW30-16 DGU”, 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
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E 30, EW 30

The classification is limited to fire exposure from the side of the insulation glass pane only.

4.3 Field of application

The scope of the classified component with direct and extended field of application is given in the test reports, the reports of extended application and the annexes 1 to 10 of this classification report.

5 Limitations

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

Lathen, 22.02.2024



Kruse
(deputy head of test lab)





Kanjahn
(case worker)

Annotations

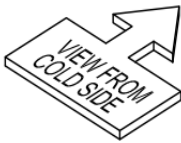
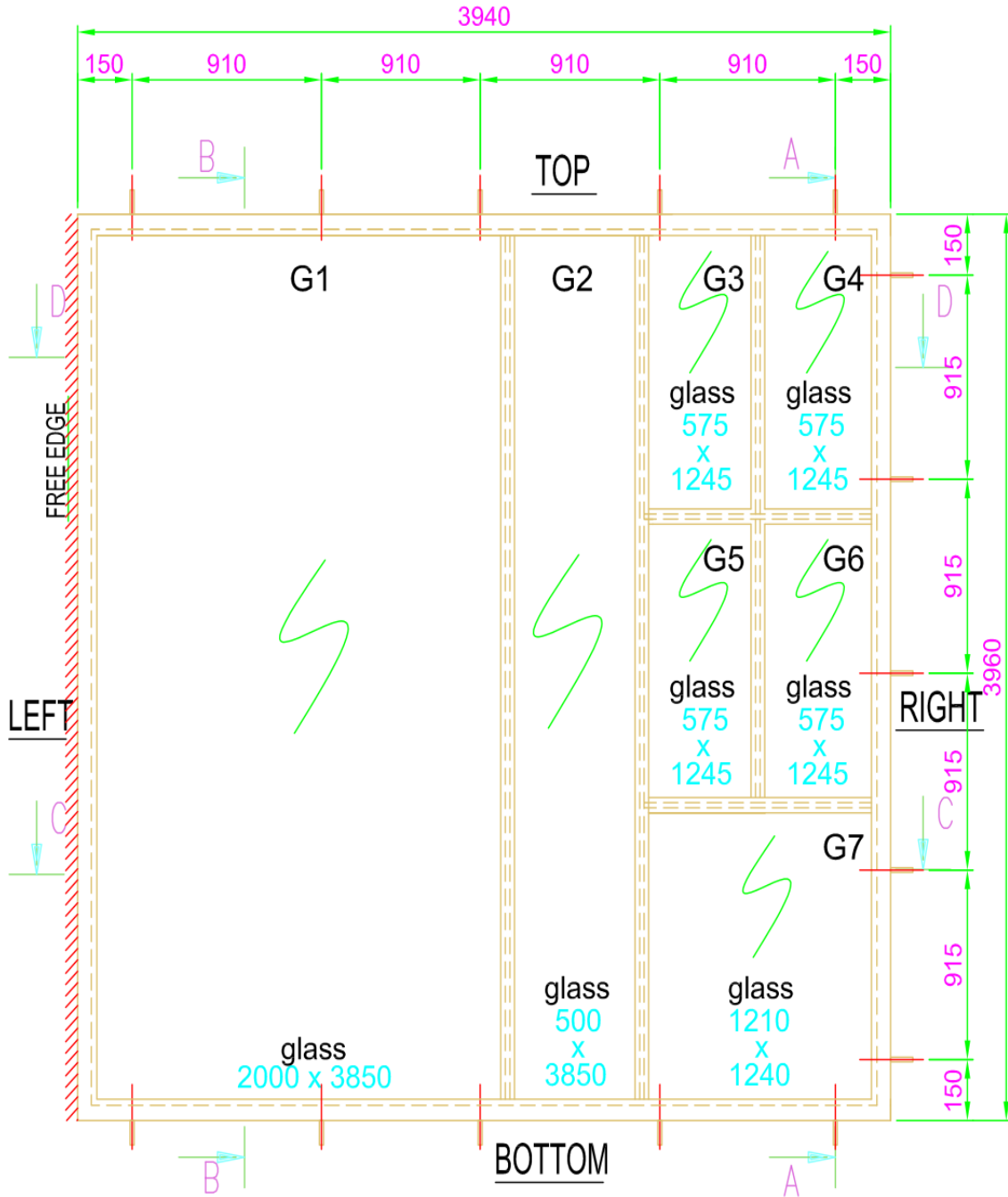
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Translations of this classification report have to include the annotation „Translation of the german original version not proven by DMT GmbH & Co. KG, Test Body for Fire Protection“. In cases of doubt the german original version of the report is valid.



General View

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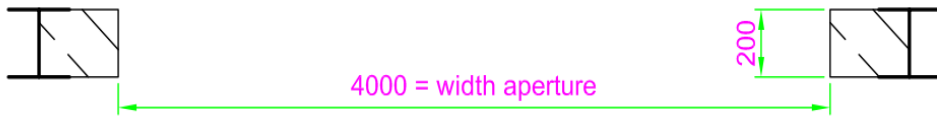
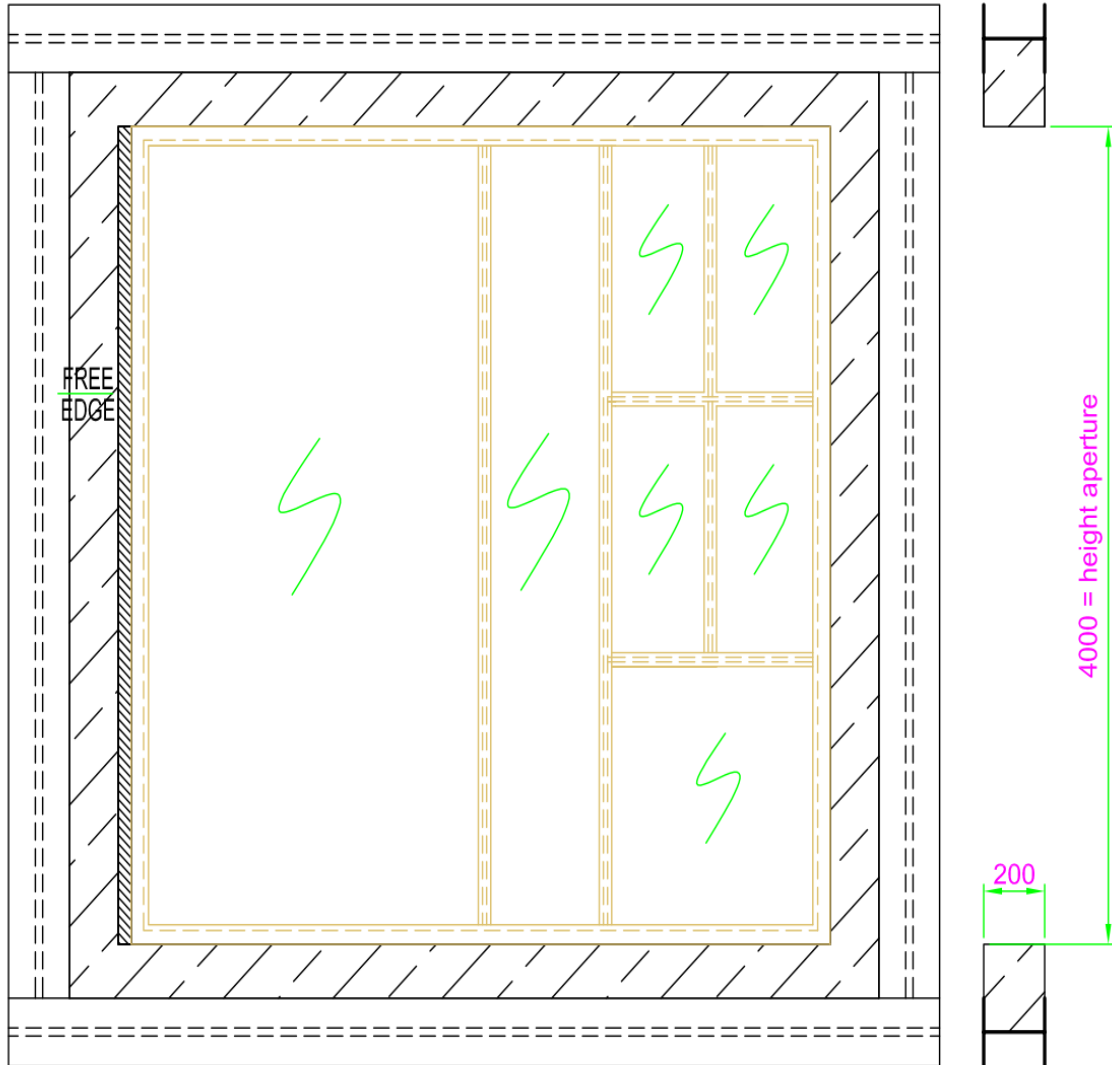
annex 1.1 of
 classification report
 K-6046-DMT-DO

	G1-G2-G3-G4-G5-G6-G7
Product	Pyrobel-T EW30-16 DGU
Structure	T6/4/T6 - air 15 - 44.2
Nominal thickness	39.5 +/- 1.0
Fire side	on 44.2

with

- T6 = 6mm toughened glass
- 4 = 4mm intumescent gel
- air 15 = spacer 15 mm
- 4 = 4mm float glass
- : = 0.76mm standard PVB





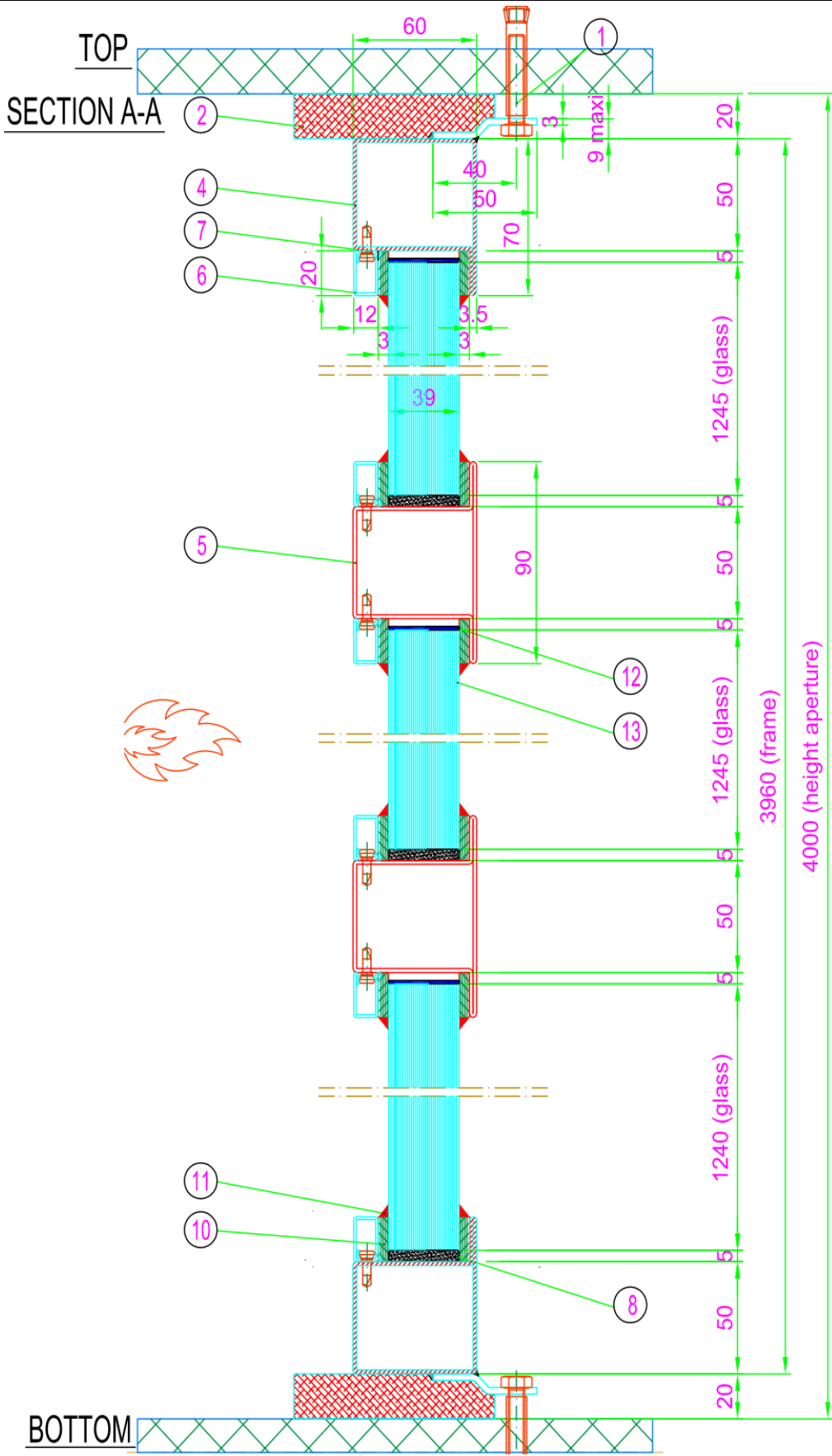
 furnace bricks



General Layout

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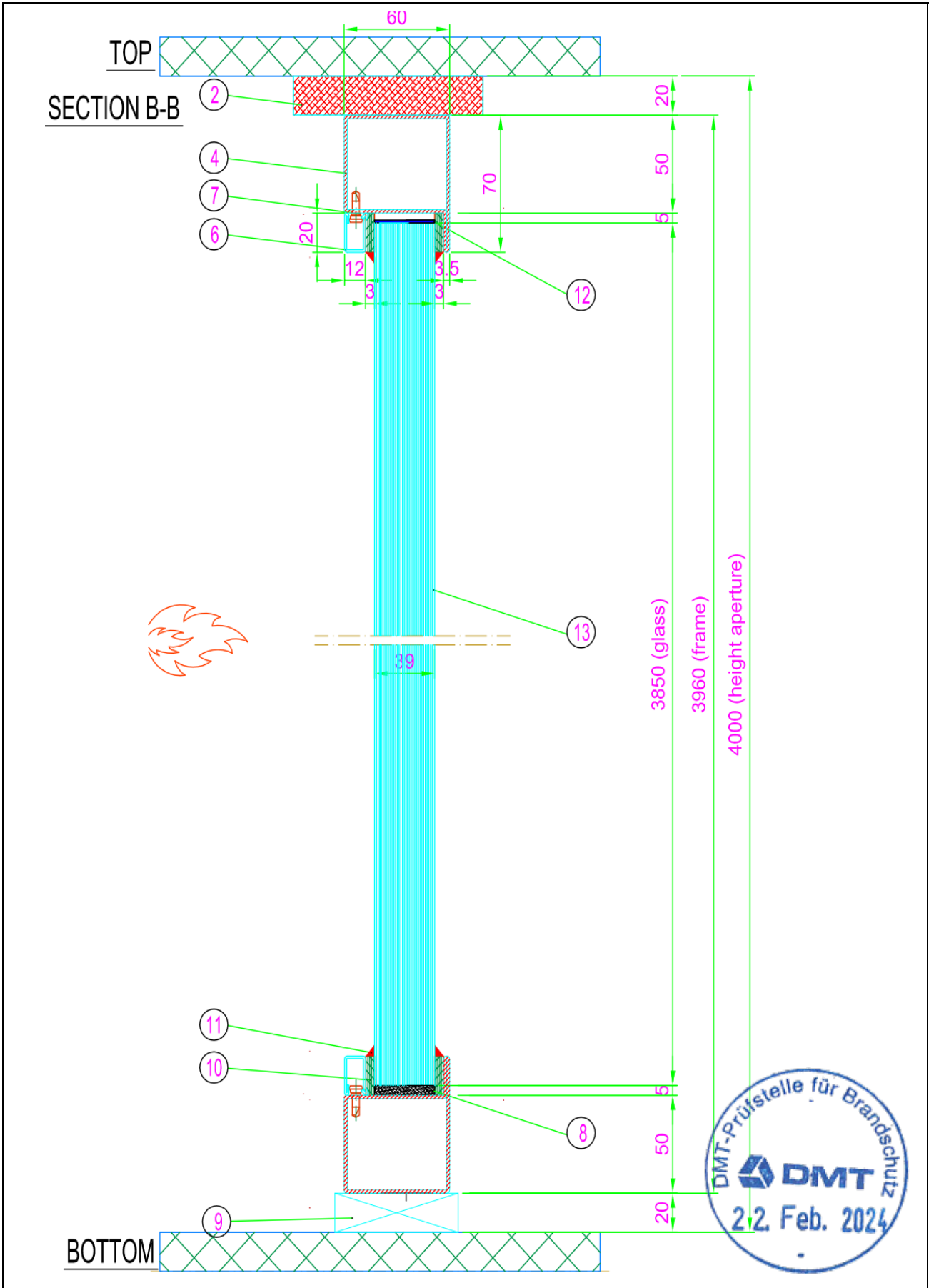
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Section A-A

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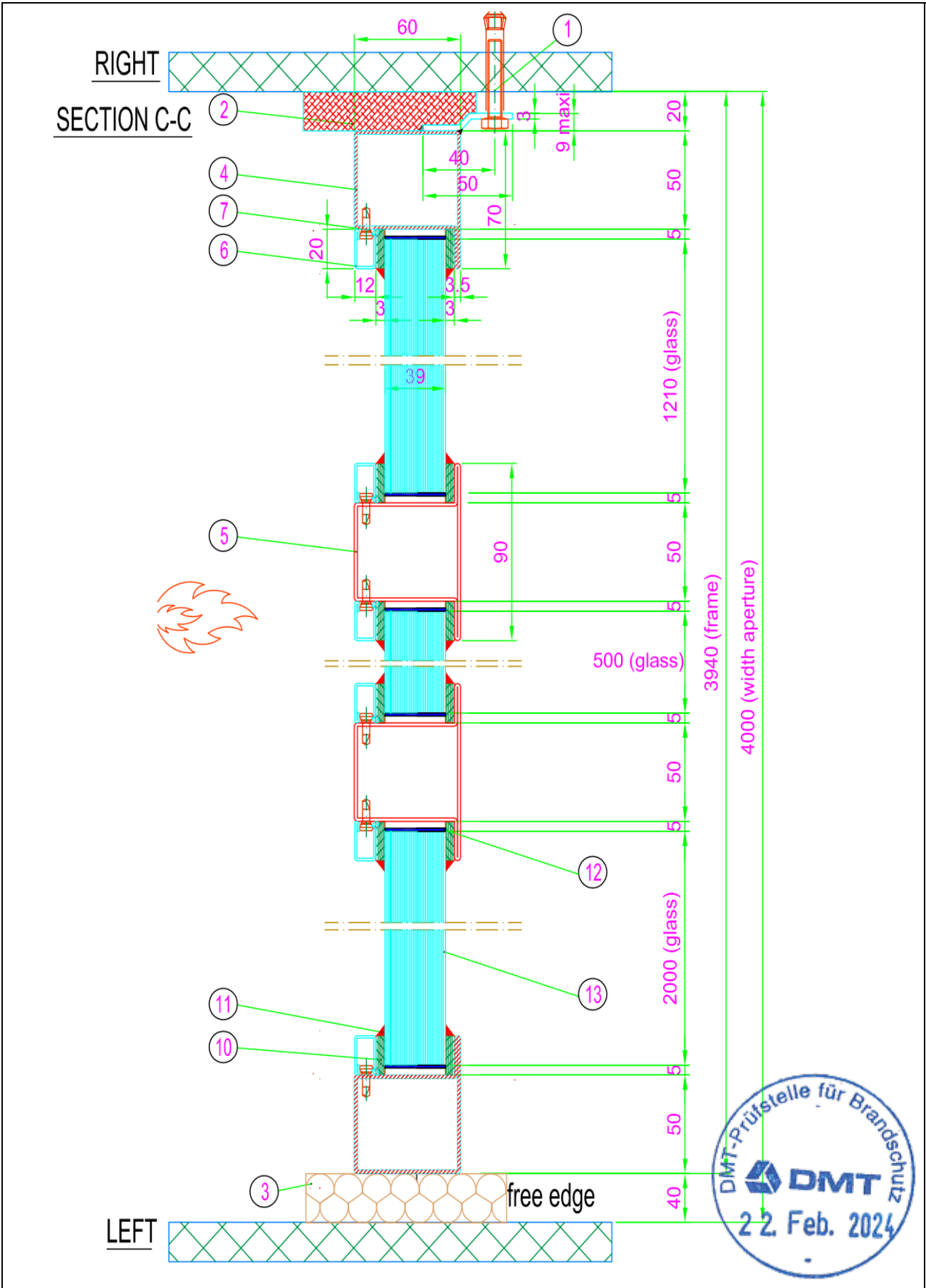


Section B-B

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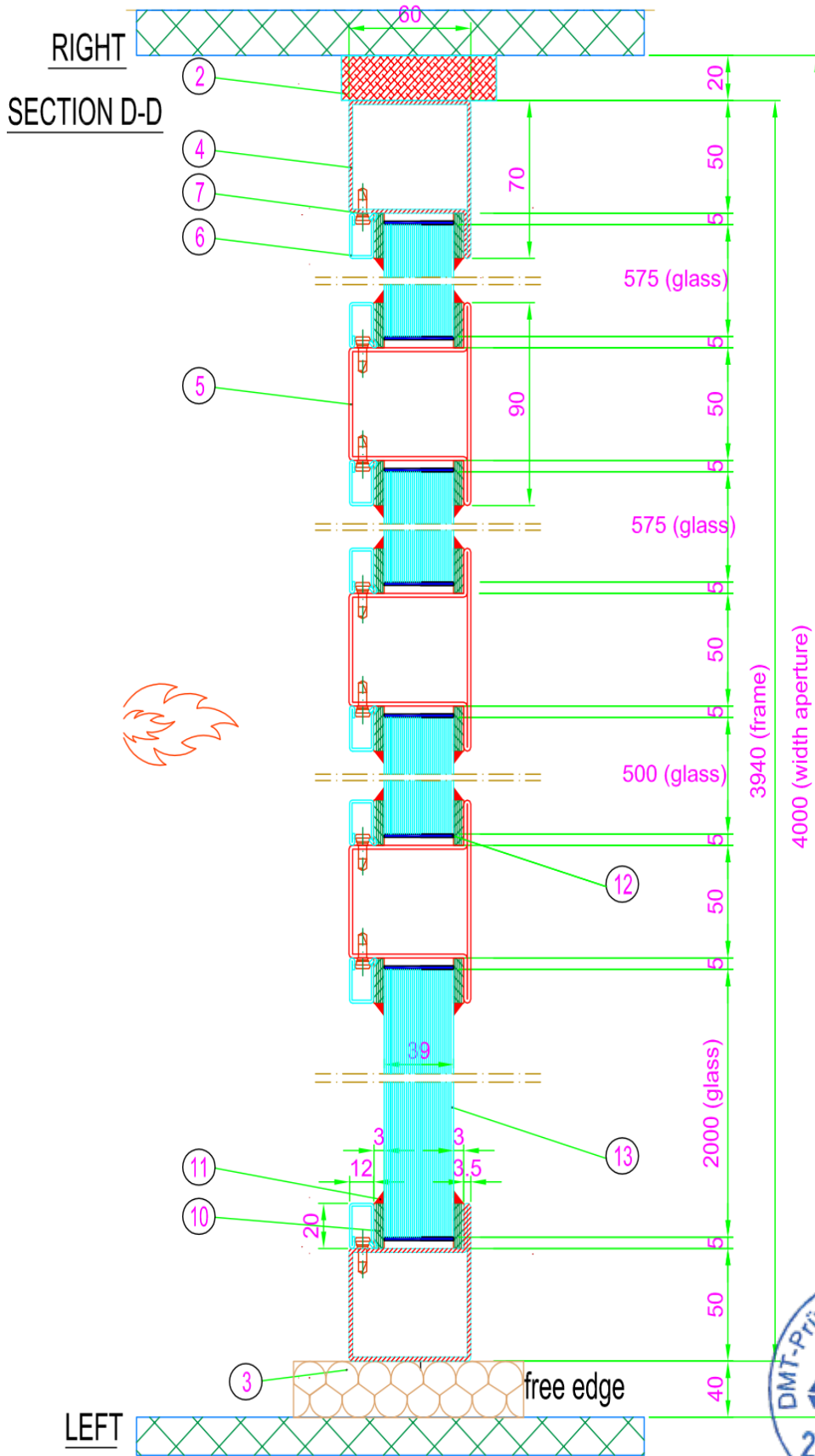
classification report
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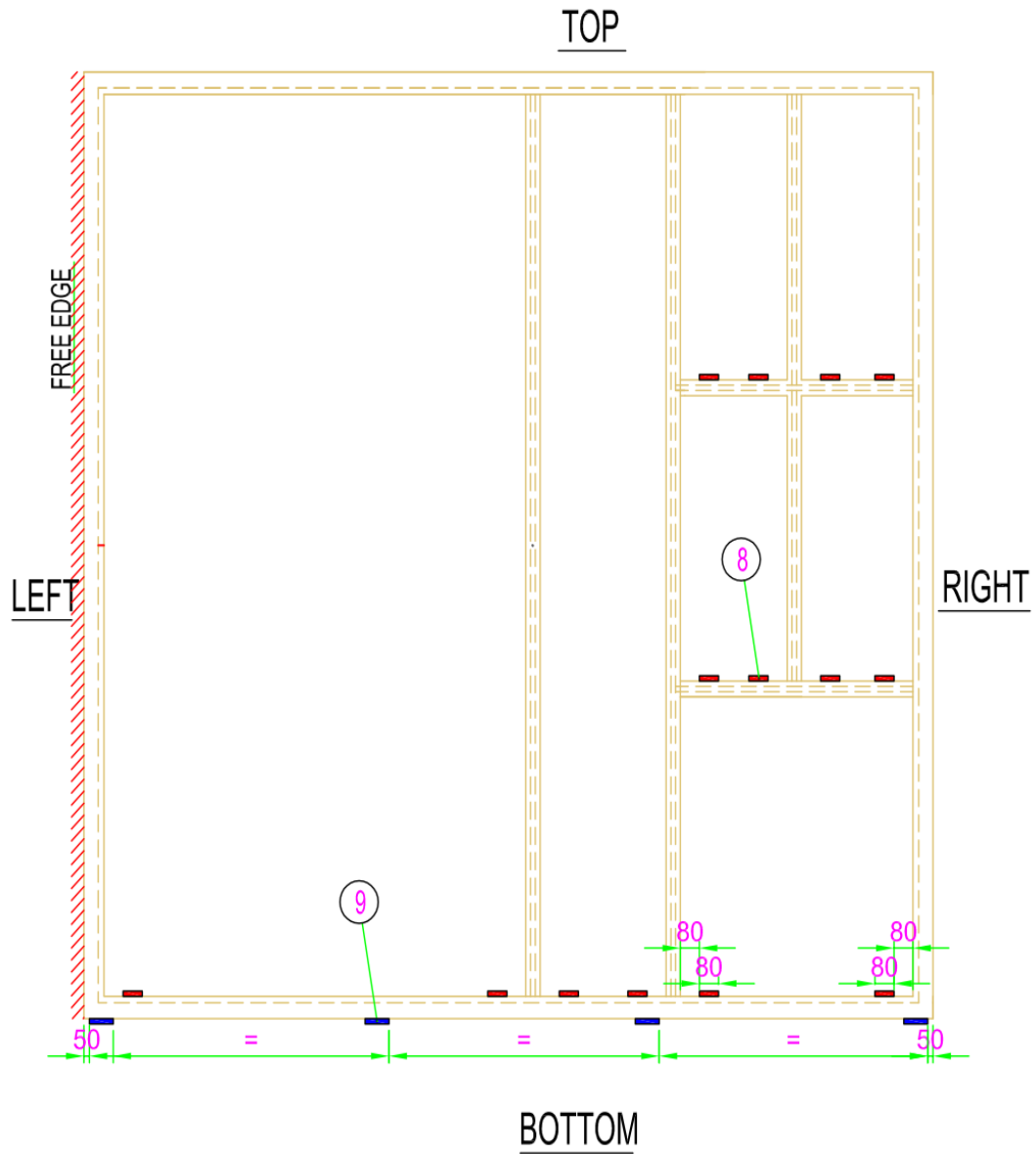
Section C-C

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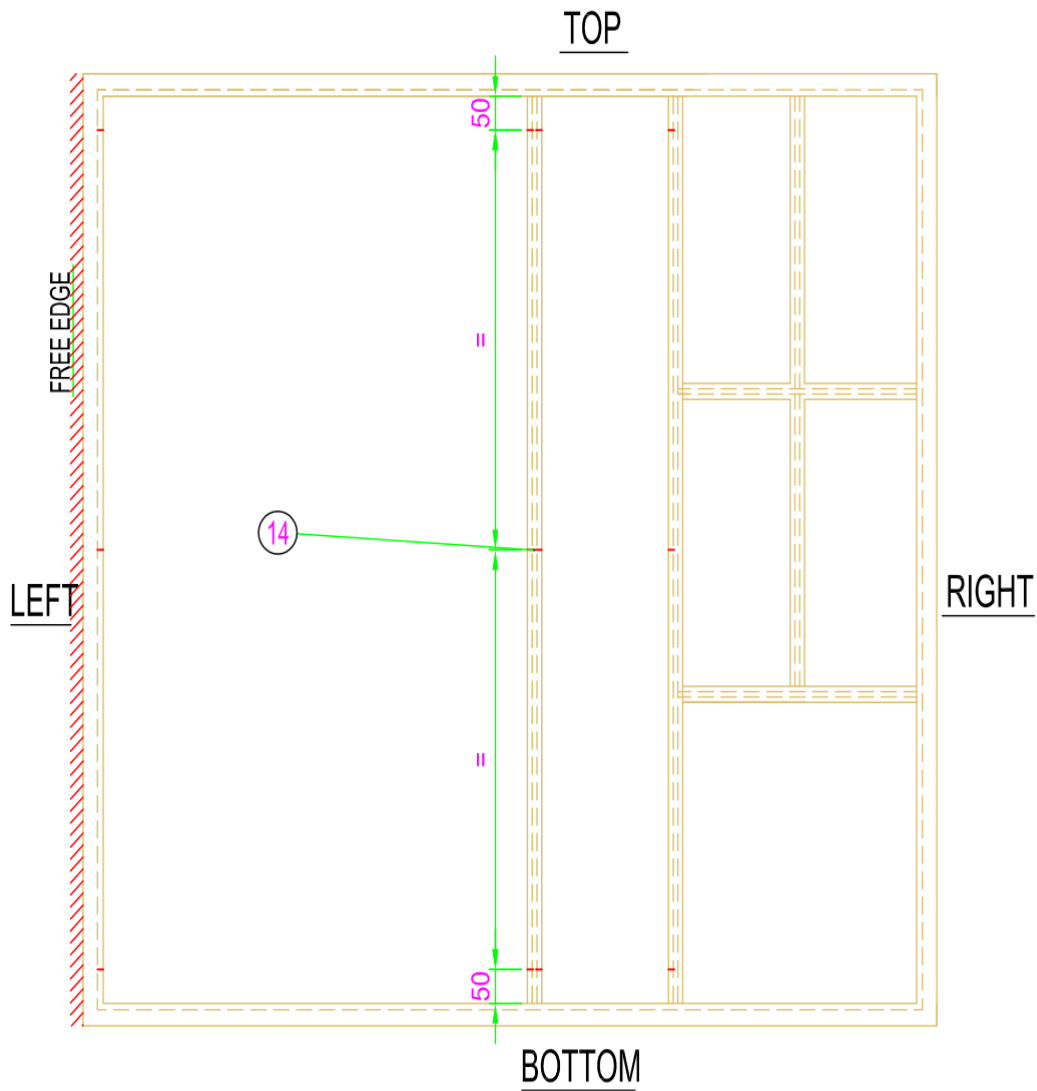
<p>Section D-D</p> <p>DMT GmbH & Co. KG Plant and Product Safety Test Body for Fire Protection</p>	<p>annex 1.7 of classification report K-6046-DMT-DO</p>
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Position of Glazing & Frame Blocks

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annex 1.8 of
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For glazing beads > 3 m => fixation with additional screws



Stainless Steel Screws Position

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annex 1.9 of
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# REF	COMPONENTS
1	Fixation: Hilti 100 HT - Ø10xL112 mm
2	Thermal Insulation Promat Promaglaf HTK 1100 - 96 kg/m ³
3	Thermal Insulation Mineral Wool - 120 kg/m ³
4	Steel Profile Jansen ECO 60 - 70mm x 60mm - reference 01.684
5	Steel Profile Jansen ECO 60 - 90mm x 60mm - reference 02.684
6	Jansen steel glazing bead - 20mm x 12mm - reference 402.112 Z
7	Jansen fastening stud- reference 450.007
8	Glazing setting block : (L) 80mm x (W) 39mm x (H) 5mm - hardwood
9	Frame setting block : (L) 100mm x (W) 60mm x (H) 20mm - Promatect-H
10	Ceramic paper - self adhesive tape - Odice X607 - 20mm x 3mm
11	Neutral Sealant - Dow Dowsil Firestop 700 (grey)
12	Fire-resistant laminate - Jung Flamiseal G - 39mm x 2mm
13	Pyrobel-T EW30-16 DGU
14	Stainless steel screws M4 x 30 H/T

