

Customer

Plywood Plant "Vlast Truda", JSC
Pereulok Shirokiy 31
442150, Nihiniy Lomov, Penza region
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Summary report no. P60-18-8118en**Fire testing**

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This report consists of
3 page(s) and 0 enclosure(s).

Fon: 03302 49982 60

Delivery date specimen: 24.09.2018

Test date: 19.10.2018 to 24.10.2018

Test specimen: Fire-retardant plywood represented under the brand "PlyGuard"
Thickness 6 mm to 30 mm

Test specification: Test methods of requirement set R10 according to
DIN EN 45545-2 (02/2016) „Railway applications – Fire protection on
railway vehicles – Part 2: Requirements for fire behavior of materials
and components“

Objective: Evaluation according to DIN EN 45545-2 (02/2016)
Requirement set R10 (see table 5 – Set of material requirements)

Test results: The fire-retardant plywood represented under the brand "PlyGuard"
achieved the following results for requirement R10:


Thickness 6 mm: Hazard Level 3 (HL3)

Thickness 30 mm: Hazard Level 3 (HL3)

Based on these results, the material fulfills requirement **R10** with
Hazard Level 3 (HL3) for all thicknesses in between the tested ones.

Remark:

The classification is valid only in conjunction with the test reports listed
on page 2. Please refer to the test reports for details.



Stefan Harder
Head of Fire Lab

The results refer only to the specimens mentioned above.

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1 Details about the specimens

Material or combination of materials:

Plywood produced with glue based on phenol-formaldehyde resin.
Flame retardant impregnation of veneers.
Thickness 6 mm to 30 mm

Manufacturer:

Plywood Plant "Vlast Truda", JSC
Pereulok Shirokiy 31
442150, Nihiniy Lomov, Penza region
Russian Federation

Dimensions of sample:

1050 mm × 230 mm × approx. 7 mm and 1050 mm × 230 mm × approx. 28 mm
75 mm × 75 mm × 6,7 mm and 75 mm × 75 mm × 23,9 mm (reduced to maximum testable thickness)

Side of specimen to be tested by flame:

sides identical

2 Summary of results

The fire-retardant plywood represented under the brand "PlyGuard" was tested for use in railway vehicles, requirement set R10 (Table 5 DIN EN 45545-2).

Thickness 6 mm:

Test report no.	Ref. test method	Standard	Parameter	Unit	Result	HL
P60-18-0664en	T04	EN ISO 9239-1	CHF	kWm ⁻²	≥ 11,0	3
P60-18-4366en	T10.03	EN ISO 5659-2	Ds (max)	dimensionless	46	3
P60-18-3464en	T11.02	EN ISO 5659-2	CIT	dimensionless	0,21	3
Classification		EN 45545-2				3

Thickness 30 mm:

Test report no.	Ref. test method	Standard	Parameter	Unit	Result	HL
P60-18-0665en	T04	EN ISO 9239-1	CHF	kWm ⁻²	≥ 11,0	3
P60-18-4367en	T10.03	EN ISO 5659-2	Ds (max)	dimensionless	29	3
P60-18-3465en	T11.02	EN ISO 5659-2	CIT	dimensionless	0,27	3
Classification		EN 45545-2				3

The Hazard Level HL depends on the operation category and design category according to DIN EN 45545-2 Table 1.

Operation category	Design category			
	N: Standard vehicles	A: Automatic vehicles having no emergency trained staff on board	D: Double decked vehicle	S: Sleeping and couchette cars double decked or single deck
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3	HL3