

Short Form Classification Report No. 19954H

PRODUCT

Ash, Ayous, Douglas fir / Oregon pine, Larch, Oak, Pine, Spruce, Western red cedar, Yellow poplar, Yellow pine, Thermo Ayous, Thermo Frake, Thermo Spruce and Thermo Movingui, all treated with Flame Delay PT

SPONSOR

LEEGWATER HOUTBEREIDING BV

PRODUCT DETAILS AND FIELD OF APPLICATION (SUMMARY)

- Construction products with an open system (with open joints up to 6 mm)
- Wood species: Ash, Ayous, Douglas fir / Oregon pine, Larch, Oak, Pine, Spruce, Western red cedar, Yellow poplar, Yellow pine, Thermo Ayous, Thermo Frake, Thermo Spruce and Thermo Movingui
- Type of fire retardant and application method: Flame Delay PT, vacuum pressure impregnation
- With a ventilated or unventilated air gap of at least 20 mm.
- Vertical and/or horizontal orientation of the wooden profiles.
- With vertical and/or horizontal joints (maximum spacing of 6 mm).
- See annex 1 on pages 2 and 3 for the fully detailed field of application and product parameters

CLASSIFICATION

B-s3,d0

STANDARDS

Test standard: EN ISO 11925-2:2010/AC:2011 & EN 13823:2010+A1:2014

Classification standard: EN 13501-1:2018

SIGNED

APPROVED

For and on behalf of WFRGENT nv

This short form classification report has been drafted according to EGOLF agreement EGA 08rev2:2013 "Application note: clause 5.10 [5.10/1] – Types of test reports used in fire testing". Whilst the test data and classification provided within this short form report was obtained in a test conducted fully in accordance with the standards EN ISO 11925-2:2010/AC:2011, EN 13823:2010+A1:2014 and EN 13501-1:2018, the presentation of the results in this short form report may not satisfy the requirements of those standards and EN ISO/IEC 17025:2005/AC:2006. The presentation of the results in this manner is made by agreement with the sponsor and use of the information herein for product assessment, approval or certification purposes will be restricted.

The full classification report No. **19954F** is available at **LEEGWATER HOUTBEREIDING BV**.

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Annex 1 – Details of the field of application and product parameters

FIELD OF APPLICATION

- Substrates:
 - 1) Euro class A2-s1,d0 or better, excluding paper faced gypsum plasterboards, with a nominal thickness of at least 9 mm and a nominal density of at least 652,5 kg/m³;
 - 2) Fire retardant treated spruce multiplex (CE2+) of Euro class B-s2,d0, with a thickness of 18 mm and a density of 522 kg/m³;
 - 3) Fiber cement board Flame Delay WP-A2 with a thickness of 4,5 mm and a reaction to fire classification A2-s2,d0;
 - 4) Fiber cement board Flame Delay WP-A2 with a thickness of 4,5 mm and a reaction to fire classification A2-s2,d0 + 38 mm x 120 mm wooden rafters + 120 mm stone wool insulation (RockSono Base Vario; Euroclass A1; 31,4 kg/m³);
 - 5) Fiber cement board Flame Delay WP-A2 with a thickness of 4,5 mm and a reaction to fire classification A2-s2,d0 + 120 mm EPS (EPS^{HR} 80SE) with a density of 18 kg/m³;
 - 6) Fassawall FireStop A2 facade foil (345 g/m²; Euro class A2-s1,d0) + 120 mm stone wool insulation (RockSono Base Vario; Euro class A1; 31,4 kg/m³) + 38 mm x 120 mm wooden rafters.
 - 7) Fassawall FireStop A2 facade foil (345 g/m²; Euro class A2-s1,d0) + 120 mm resol hard foam insulation board (Kooltherm® K15) with a density of 35 kg/m³ + 38 mm x 120 mm wooden rafters.
- With a ventilated or unventilated air gap of at least 20 mm.
- Fixing: Mechanically fixed onto a frame of vertical and/or horizontal wooden battens (e.g. ring round head nails and/or screws). The distance between the fixings is 500 mm or less. The frame is mechanically fixed onto the substrate using screws.
- Frame of wooden battens: Preservative treated Norway Spruce wood, fire retardant treated with Flame Delay PT and finished with 2 layers of Colorseen Timberstain; Euro class B-s2,d0 or better.
- Vertical and/or horizontal orientation of the wooden profiles.
- Open system (with open joints up to 6 mm between the wooden profiles)
- Horizontal orientation of the wooden profiles:
 - Horizontal joints between the individual wooden profiles with a maximum joint width of 6 mm
 - With or without vertical joints with a maximum joint width of 6 mm
- Vertical orientation of the wooden profiles:
 - Vertical joints between the individual wooden profiles with a maximum joint width of 6 mm
 - With or without horizontal joints with a maximum joint width of 6 mm

PRODUCT PARAMETERS

- Wood species: Ash, Ayous, Douglas fir / Oregon pine, Larch, Oak, Pine, Spruce, Western red cedar, Yellow poplar, Yellow pine, Thermo Ayous, Thermo Frake, Thermo Spruce and Thermo Movingui
- Nominal thickness: 15 mm – 44 mm
- Nominal profile width: 60 mm – 195 mm (with a thickness of at least 23 mm if the width is larger than 140 mm)
- Surface structure: Planed and fine sawn (rough) surface
- Type of profiles: Rhombus profile and (profiled) boards
- Coating system: Colorseen Timberstain, Colorseen Timberstain HT, Colorseen Timberstain FR, Sansin Enviro Stain SDF, Sansin Woodsealer, Flame Delay Topcoat, Böhme SWS Sealer, Böhme SWS IT Finish, Böhme SWS XT Finish and Böhme LignoStain. Also valid for uncoated systems
- Applied amount (g/m²; wet application) of coating system: see product descriptions in §1b of classification report No. 19954F
- Type of fire retardant and application method: Flame Delay PT, vacuum pressure impregnation

Annex 1 – Details of the field of application and product parameters

PRODUCT PARAMETERS

- Active amount of fire retardants:

Type of wood	Flame Delay PT fire retardant: Active amount of fire retardants (retention; g/m ²) for wood thicknesses 15 mm – 44 mm	Flame Delay PT fire retardant: Active amount of fire retardants (retention; kg/m ³)	
		15 mm	44 mm
Ash	305 or more	47,8 or more	21,6 or more (*)
Ayous	295 or more	46,3 or more	20,9 or more (*)
Douglas fir / Oregon pine	308 or more	48,3 or more	21,8 or more (*)
Larch	150 or more	22,4 or more	10,6 or more (*)
Oak	268 or more	42,1 or more	19,0 or more (*)
Pine	292 or more	45,9 or more	20,7 or more (*)
Spruce	283 or more	44,3 or more	20,0 or more (*)
Western red cedar	240 or more	37,7 or more	17,0 or more (*)
Yellow poplar	288 or more	45,2 or more	20,4 or more (*)
Yellow pine	311 or more	48,8 or more	22,0 or more (*)
Thermo Ayous	251 or more	39,3 or more	17,8 or more (*)
Thermo Frake	305 or more	47,9 or more	21,6 or more (*)
Thermo Spruce	269 or more	42,2 or more	19,1 or more (*)
Thermo Movingui	282 or more	44,2 or more	20,0 or more (*)

(*) The wood retention expressed in kg/m³ is calculated out of the intended wood retention expressed in g/m² (see previous page).