

Short Form Classification Report No. 20384F

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 a closed system (butt joints between all planks)
- 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.
- See annex 1 on pages 2 and 3 for the fully detailed field of application and product parameters

CLASSIFICATION

B-s2,d0: All profile types (except featheredged profiles) in thicknesses 15 mm - 23 mm

B-s3,d0: All profile types (except featheredged profiles) with a thickness > 23 mm (up to 70 mm)

B-s3,d0: Featheredged profiles

STANDARDS

Test standard: EN ISO 11925-2:2010/AC:2011, EN 13823:2010+A1:2014 and EN 13823:2020

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 039:2021 "Application note: clause 7.8 [7.8/1] – Types of reports". 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, EN 13823:2020 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 17025:2017. 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. **20384E** is available at **LEEGWATER HOUTBEREIDING BV**: The impregnation and coating process (applied amount, wood retention, etc) and coating process of each tested wood species is witnessed and described thoroughly by SKH (NB 0502).

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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;
 - 8) 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 resol hard foam insulation board (Kooltherm® K15) with a density of 35 kg/m³.
- 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 of Euro class D-s2,d0 or better.
- Vertical and/or horizontal orientation of the wooden profiles.
- Closed system (with butt joints between the wooden profiles)
- Horizontal orientation of the wooden profiles:
 - Horizontal butt joints between the individual wooden profiles
 - With or without vertical joints with a maximum joint width of 6 mm
- Vertical orientation of the wooden profiles:
 - Vertical butt joints between the individual wooden profiles
 - 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 and greater (up to 70 mm; 44 mm for Larch)
 - T&G profiles: 17 mm and greater (up to 70 mm; 44 mm for Larch)
 - Featheredged profiles: 9/20 mm and greater (up to 12/27 mm)
- Nominal profile width: 40 mm – 195 mm (with a thickness of at least 23 mm if the width is larger than 140 mm)
- Surface structure: Planed, brushed and fine sawn (rough) surface
- Type of profiles: Rhombus, shiplap, drop siding, tongue & groove, dressed & matched, ceiling, decking profiles, and (profiled) boards; with or without coating system. Also valid for featheredged profiles (bevel siding) with a coating system.
- 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 (except the featheredged profiles)
- Applied amount (g/m²; wet application) of coating system: see product descriptions in §1b of classification report No. 20384E.
- 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 - 70 mm	Flame Delay PT fire retardant: Active amount of fire retardants (retention; kg/m ³)	
		15 mm	70 mm
Ash	305 or more	47,8 or more	15,9 or more (*)
Ayous	295 or more	46,3 or more	15,4 or more (*)
Douglas fir / Oregon pine	308 or more	48,3 or more	16,0 or more (*)
Larch	117 or more for thicknesses 15-44 mm (Rhombus) and 168 or more (featheredged profile)	22,4 or more	9,7 or more for wood thickness 44 mm (maximum thickness for this wood species)
Oak	268 or more	42,1 or more	14,0 or more (*)
Pine	292 or more	45,9 or more	15,2 or more (*)
Spruce	283 or more	44,3 or more	10,7 or more
Western red cedar	240 or more	37,7 or more	12,5 or more (*)
Yellow poplar	288 or more	45,2 or more	15,0 or more (*)
Yellow pine	311 or more	48,8 or more	16,2 or more (*)
Thermo Ayous	251 or more	39,3 or more	13,1 or more (*)
Thermo Frake	305 or more	47,9 or more	15,9 or more (*)
Thermo Spruce	269 or more	42,2 or more	14,0 or more (*)
Thermo Movingui	282 or more	44,2 or more	14,7 or more (*)

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