

Woodsafe PRO and Woodsafe Exterior WFX- fire protection system for wall, ceiling and facade cladding

Holder/Issued to

Woodsafe Timber Protection AB

Fågelbacken, Hubbo-Jädra 7-9, 725 95 Västerås, Sweden

Product description

Woodsafe PRO and Woodsafe Exterior WFX, fire protection system with impregnated flame retardant treated solid wood panelling and plywood boards, wood batten and fastening profiles as follows:

Facade cladding SP Fire 105

- Fire protection system with impregnated flame retardant Woodsafe PRO

Panel:

Wood species/ Product	Thick- ness, width	Surface coating, Alternative 1	Surface coating, Alternative 2	Air gap	Insulation	Supporting construction
PRO Spruce panel	≥21 mm, ≥120 mm	Primer, intermediate and top coating with Lasol 9000 (one layer each and total 250 g/m ² (wet)	Primer, intermediate and top coating with Nordic EKO (one layer each and total 250 g/m ² (wet)	Max 45 mm Lath: Spruce, Woodsafe FR-treated c/c 600 mm Fire barrier according to assembly instruction	-	Masonry or cast with classification A1/A2-s1,d0 Alt. Wall of boards with thickness ≥12 mm, density ≥600 kg/m ³ , classification A1/ A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher

Facade cladding SP Fire 105

- Fire protection system with impregnated flame retardant Woodsafe Exterior WFX

Panel:

Wood species/ Product	Thick- ness, width	Surface coating, Alternative 1	Surface coating, Alternative 2	Air gap	Insulation	Supporting construction
WFX Cedar panel	≥17,5 mm, ≥143 mm	-	-	Max 28 mm Lath: Spruce, Woodsafe FR-treated c/c 600 mm Alt. according to assembly instruction Fire barrier according to assembly instruction	-	Masonry or cast with classification A1/A2-s1,d0 Alt. Wall of boards with thickness ≥9 mm, density ≥600 kg/m ³ , classification A1/A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher

Panel:

Wood species/ Product	Thick- ness, width	Surface coating, Alternative 1	Surface coating, Alternative 2	Air gap	Insulation	Supporting construction
WFX Heat modified pine panel	≥21 mm, ≥141 mm	-	-	Max 28 mm Lath: Untreated spruce, c/c 600 mm Alt. according to assembly instruction	-	Masonry or cast with classification A1/ A2-s1,d0 Alt. Wall of boards with thickness ≥9 mm, density ≥600 kg/m ³ , classification A1/A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher

Facade cladding SP Fire 105

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Panel:

Wood species/ Product	Thick- ness, width	Surface coating, Alternative 1	Surface coating, Alternative 2	Air gap	Insulation	Supporting construction
WFX Heat modified spruce panel*	≥19 mm, ≥142 mm	-	Signati	Max 28 mm Lath: Spruce, Woodsafe FR-treated c/c 600 mm Alt. according to assembly instruction	FF-PIR 150 ALK total thickness 150 mm Alt. Rockwool insulation, classification A2-s1,d0 or higher total thickness 150 mm Alt. No insulation	<u>With insulation:</u> Wall/ material with classification D-s2,d2 or higher <u>Without insulation:</u> Wall of boards with thickness ≥12 mm, density ≥600 kg/m ³ , classification A1/A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher
*Södra Decori						

Facade cladding SP Fire 105

- Fire protection system with impregnated flame retardant Woodsafe Exterior WFX

Panel:

Wood species/ Product	Thick- ness	Surface coating, Alternative 1	Surface coating, Alternative 2	Air gap	Insulation	Supporting construction
WFX Frontwood CLT spruce	≥ 21 mm	-	Signati	Max 45 mm Lath: Untreated spruce, c/c 600 mm	Kooltherm K15C total thickness 150 mm Alt. Rockwool insulation, classification A2-s1,d0 or higher total thickness 150 mm Alt. No insulation	<u>With insulation:</u> Wall/ material with classification D-s2,d2 or higher <u>Without insulation:</u> Wall of boards with thickness ≥12 mm, density ≥600 kg/m ³ , classification A1/A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher

Facade cladding SP Fire 105

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Facade shingle:

Wood species/ Product	Thick- ness, width	Assembly Alternative 1	Assembly Alternative 2	Air gap	Insulation	Supporting construction
WFX Cedar shingle	3-10 mm with varying width	Cedar shingle mounted on: spruce plywood 18 mm FR-treated with Woodsafe PRO	Cedar shingle mounted on: Spruce or pine panel rim or tongue and groove 18-22 mm FR-treated with Woodsafe PRO	Max 28 mm Lath: Spruce, Woodsafe FR-treated c/c 600 mm	-	Masonry or cast with classification A1/ A2-s1,d0 Alt. Wall of boards with thickness ≥ 9 mm, density ≥ 600 kg/m ³ , classification A1/ A2-s1,d0 attached with screws or staples on material with classification D-s2,d2 or higher

Wall and ceiling cladding for indoor use K₂10/K₁10

- Fire protection system with impregnated flame retardant Woodsafe PRO

Plywood boards:

Wood species	Thickness	Air gap alternative 2	Air gap alternative 2	Covering
Birch (regular and with HPL)	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10
Pine	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10
Pine/spruce (combination)	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10
Fuma/abachi	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10
Mahogany/laun	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10
Poplar	≥ 12 mm	Screwed in aluminium profiles without air gap to the substrate	Screwed in wood batten 12 x 70 mm with 12 mm air gap to the substrate	K ₂ 10/K ₁ 10

Panel:

Wood species	Thickness	Air gap	Covering
Ash	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
American oak	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Pine	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Spruce	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Maple	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Heat modified pine	≥ 12 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Poplar	≥ 15 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Cedar	≥ 19 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Aspen	≥ 21 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10
Siberian larch	≥ 21 mm	Screwed dict to the substrate	K ₂ 10/K ₁ 10

Intended use

Wall and ceiling cladding in escape routes or other indoor spaces with demands for protection against ignition or rapid fire and smoke development.

Facade cladding in building with requirements to limited fire spread along the facade surface and inside the wall.

See "Product description" for intended use for each product.

Trade name

Woodsafe PRO and Woodsafe Exterior WFX

Approval

The products satisfy the requirements set forth in chapter 8, 4 § 2 and 3 PBL, in respect to and under conditions stated in this type approval, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) issued by the National Board of Housing, Building and Planning:

Woodsafe PRO

Economically reasonable working life*	2:2
Covering fire technical class K ₂ 10/B-s1,d0** and K ₁ 10/B-s1,d0**	5:231
Facade cladding in building class Br1***	5:551, point 2,3 and 4
Emissions	6:21

Woodsafe Exterior WFX

Economically reasonable working life*	2:2
Facade cladding in building class Br1***	5:551, point 2,3 and 4
Emissions	6:21

* Service class INT1, INT2 (indoor) and EXT (outdoor) regarding reaction to fire performance according to EN 16755 for all types of wood. Classification report 2P00490-A (Woodsafe PRO) and classification report O100305-1231851-C (Woodsafe Exterior WFX: Accelerated aging method B. Fire test SBI / assessment O100305-1231851-D).

** Euroclass is verified with the manufacturer's declaration of performance.

*** Fire tested according to SP Fire 105 issue 5 and meets the specified criteria in the appendix to the test method.

Associated documents

Associated document WOODSAFE EXTERIOR WFX 2024 version 1.2 en
 Associated document WOODSAFE PRO 2023 version 1.1 en
 Assembly instruction-SP-Fire-105-Woodsafe PRO Spruce panel 231005
 Assembly instruction-SP-Fire-105-Woodsafe Exterior WFX Cedar panel 231005
 Assembly instruction-SP-Fire-105-Woodsafe Exterior WFX Heat modified Pine panel 231005
 Assembly instruction-SP-Fire-105-Woodsafe Exterior WFX VHeat modified Spruce panel 231005
 Assembly instruction-SP-Fire-105-Woodsafe Exterior WFX Frontwood CLT Spruce 231005
 Assembly instruction-SP-Fire-105-Woodsafe Exterior WFX Cedar shingle 231005

Control

The factory production control (FPC) is monitored by an independent inspection body.

Control plan: Kontrollanvisning dated 2014-12-11 Appendix 2 avtal 210-09-0082, Inspection body: RISE

When the building proprietor performs inspection at the building site, markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this type approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this type approval is based.

Manufacturing place

Production control includes the following place:

Woodsafe Timber Protection AB, Västerås, Sweden

Marking

Wooden panels and plywood boards shall be marked according to the CE marking rules. Associated documents shall contain the Boverket's registered trade mark (✚), type approval number (0263/08), type approved properties and RISE accreditation number as certification body (RISE 1002).

Basis for approval

Report 3P02262-1, -2, -5, -6, -7 and -8 from RISE (SP)
Report 3P02263 and assessment 3P02263-1 from RISE (SP)
Report 3P07131-A1 and -B1 from RISE (SP)
Report 288285 and 288286 from BRE
Report 4P06525 and assessment 4P6525-1 and O100408-1146887 from RISE (SP)
Report 5P07737 and assessment 5P07737-1 from RISE (SP)
Report 8P01176 and assessment 8P01176-1 from RISE (SP)
Report 6P07424A and -B from RISE (SP)
Report 2P00490-A and -B from RISE
Report P106200-1rev1 and assessment P106200-2 from RISE
Report O100407-137871-1 from RISE
Report O100305-1235455 from RISE
Report O100305-1231851-C and assessment O100305-1231851-D from RISE

Comments

Wooden panelling is assumed to be CE-marked as class B-s1, d0 according to EN 14915.
Plywood is assumed to be CE-marked as class B-s1, d0 according to EN 13986.

Associated documents shall accompany the product or by other means be available to users of the product.
This type approval supersedes the previous type approval with the same number dated 2023-10-18.

Validity

Valid through 2028-10-17.

The validity of this type approval can be verified at RISE homepage.

The validity of this type approval expires when the type approved products with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

A handwritten signature in blue ink, appearing to read 'Stefan Coric'.

Stefan Coric

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish original shall take precedence.