

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2412-CPR-1047-03

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9th March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Solid wood paneling and cladding
Fire-retardant treatment
Classifications: B-s1,d0 and B-s2,d0 and B-s3,d0
Treatments as specified in appendix

placed on the market under the name of

Protræ A/S

Skodborg Røddingvej 8
DK-6630 Rødding
Denmark

and produced in the manufacturing plants as specified in the appendix of this certificate

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 14915:2013

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 14th of June 2023 and will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

The validity of the certificate can be checked on the internet address www.finotrol.fi

The certificate is updated on 16th of February 2024.



Petteri Torniainen
Managing Director



Appendix to certificate 2412-CPR-1047-03

Protræ A/S

Skodborg Røddingvej 8
DK-6630 Rødding
Denmark

All products treated with Burnblock JG30 fire retardant using industrial impregnation method. All options without extra coating. Air gap, when applicated using the air gap it is constructed by wooden battens of class D-s2,d0 or better.

Produced in the manufacturing plant:

1. Danish Antifire ApS, Overgade 11B, 6670 Holsted, Denmark

Extra industrial coating according to Table A. Produced in the manufacturing plant:

1. Kolomore ApS, Skaergårdsvaenget 7, DK-5500 Middelfart, Denmark

Accoya (Pinus radiata), Option 1

Testing reference: Classification 6P07344-1 / SP

- Product: Accoya solid wood panel. End use as surface lining.
- Thickness: Nominal thickness ≥ 19 mm
- Density: Nominal density range 500 - 550 kg/m³
- Intake: Nominal dry amount of fire retardant 78 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 9 mm thickness and with a density equal to or greater than 652 kg/m³
- Fixation: Fixed mechanically against the substrate
- With no air gap
- **Reaction to fire classification (no extra coating): B-s1,d0**

Accoya (Pinus radiata), Option 2

Testing reference: Classification PCA10713A / DBI

- Product: Accoya modified Pinus radiata solid wood panel. End use as a cladding or as a support for cladding elements.
- Thickness: Nominal thickness 19 mm
- Density: Nominal density 568 kg/m³
- Intake: Nominal dry amount of fire retardant 76,2 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): for nominal thickness 19 mm and B-s1,d0 and for thicknesses over than 19 mm B-s2,d0**

Oak

Testing reference: Classification 5P06680-1 rev1 / RISE

- Product: Oak solid wood panel. End use as surface lining.
- Thickness: Nominal thickness ≥ 20 mm
- Density: Nominal density range 500 - 750 kg/m³
- Intake: Nominal dry amount of fire retardant 16 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 9 mm thickness and with a density equal to or greater than ≥ 652 kg/m³
- Fixation: Fixed mechanically against the substrate
- With no air gap
- Mounting: Horizontal and vertical joints
- **Reaction to fire classification (no extra coating): B-s1,d0**

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Spruce (Picea abies)

Testing reference: Classification (15 - 42 mm) PCA10812 / DBI

- Product: Spruce solid wood panel. End use as cladding or as support for cladding elements.
- Thickness: Nominal thickness 15 – 42 mm
- Density: Nominal density range 355 - 536 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Larch (Larix sibirica)

Testing reference: Classification PCA10812, Indicative test PFA11675A / DBI

- Product: Larch solid wood panel. End use as a cladding or as a support for cladding elements.
- Thickness: Nominal thickness 15 – 42 mm
- Density: Nominal density range 650 - 750 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Larch (Larix decidua)

Testing reference: Classification PCA10812, Indicative test PFA11961C / DBI

- Product: Larch solid wood panel. End use as a cladding or as a support for cladding elements.
- Thickness: Nominal thickness 15 – 42 mm
- Density: Average nominal density range 550 - 630 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

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Pine (*Pinus sylvestris*)

Testing reference: Classification PCA10812, Indicative test PFA11473G / DBI

- Product: Pine solid wood panel. End use as a cladding or as a support for cladding elements.
- Thickness: Nominal thickness 15 – 42 mm
- Density: Average density 430 kg/m³
- Intake: Nominal dry amount of fire retardant 40 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Western Red Cedar

Testing reference: Classification PCA10812, Indicative test PFA11473C / DBI

- Product: Western Red Cedar solid wood panel. End use as solid wood paneling and cladding
- Thickness: Nominal thickness 15 - 42 mm
- Density: Nominal density range 316 - 494 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Frake/Limba (*Terminalia superba*)

Testing reference: Classification PCA10812, Indicative test PFA12107A / DBI

- Product: Frake solid wood panel. End use as solid wood paneling and cladding
- Thickness: Nominal thickness 15 - 42 mm
- Density: Average nominal density 540 kg/m³
- Intake: Nominal dry amount of fire retardant 42 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

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Ayous (Triplochiton scleroxylon),

Testing reference: Classification PCA10812, Indicative test PFA12108A / DBI

- Product: Ayous solid wood panel. End use as solid wood paneling and cladding
- Thickness: Nominal thickness 15 - 42 mm
- Density: Average nominal density 380 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Ash (Ash fraxinus sp.),

Testing reference: Classification PCA10812, Indicative test PFA12105A / DBI

- Product: Ash solid wood panel. End use as solid wood paneling and cladding
- Thickness: Nominal thickness 15 - 42 mm
- Density: Average nominal density 690 kg/m³
- Intake: Nominal dry amount of fire retardant 38 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**

Thermo pine (Pinus sylvestris)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) / DBI

- Product: Thermally modified pine solid wood panel. End use as solid wood paneling and cladding
- Thickness: 15 - 42 mm
- Density: Average 432 kg/m³
- Intake: Nominal dry amount of fire retardant 50,4 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**

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Thermo ash (Ash Fraxinus sp.)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) and PFA11473E (Thermo Ash) / DBI

- Product: Thermally modified ash solid wood panel. End use as solid wood paneling and cladding.
- Thickness: 15 - 42 mm
- Density: Average 617 kg/m³
- Intake: Nominal dry amount of fire retardant 51,4 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**

Thermo Ayous (Ayous Sterculiaceae)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) and PFA11473A (thermo ayous) / DBI

- Product: Thermally modified ayous solid wood panel. End use as solid wood paneling and cladding.
- Thickness: 15 - 42 mm
- Density: Nominal density 270 - 375 kg/m³
- Intake: Nominal dry amount of fire retardant 50,4 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**

Thermo spruce (Picea abies)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) and PFA11708A (thermo spruce) / DBI

- Product: Thermally modified spruce solid wood panel. End use as solid wood paneling and cladding.
- Thickness: 15 - 42 mm
- Density: Nominal density 385 kg/m³
- Intake: Nominal dry amount of fire retardant 52,5 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**

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Thermo Frake/Limba (Terminalia superba)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) and PFA12078A (thermo frake) / DBI

- Product: Thermally modified frake solid wood panel. End use as solid wood paneling and cladding.
- Thickness: 15 - 42 mm
- Density: Average nominal density 540 kg/m³
- Intake: Nominal dry amount of fire retardant 52,8 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s1,d0 and thickness over 42 mm B-s2,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**

Thermo Poplar (genus Populus species)

Testing reference: Classification PCA10648A (15 mm), Indicative tests PFA11879A (42 mm), PFA12110A (vertical) and PFA12078B (thermo poplar) / DBI

- Product: Thermally modified poplar solid wood panel. End use as solid wood paneling and cladding.
- Thickness: 15 - 42 mm
- Density: Average nominal density 330 kg/m³
- Intake: Nominal dry amount of fire retardant 54,9 kg/m³
- Substrate: Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- Fixation: Fixed mechanically to the substrate
- With a ventilated or non-ventilated air gap between product and substrate or with no air gap
- Mounting: Profiles horizontally or vertically, horizontal and vertical joints
- **Reaction to fire classification (no extra coating): 15-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**
- **Reaction to fire classification (with extra coating, see TABLE A): 19-42 mm B-s2,d0 and thickness over 42 mm B-s3,d0**



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TABLE A.

Industrial coating alternatives for Burnblock FR impregnated:

Name of coating system	Coating codes	Coating system and tested values and test references
<p>Sherwin Williams coating alternatives, classification</p> <ul style="list-style-type: none"> - Spruce, Larch, Pine, Western Red Cedar: B-s1,d0, thickness 15 – 42 mm, over 42 mm B-s2,d0 - Thermo Pine, Thermo Ash, Thermo Ayous and Thermo Spruce, Thermo Frake and Thermo Poplar: B-s2,d0, thickness 19 – 42 mm, over 42 mm B-s3,d0 		
<p>Sherwin Williams System 1</p>	<p>SX1420 EG1570</p>	<p>Surface planed or fine sawn/paint-cut or fine-brushed Coated industrially after kiln drying with: Sherwin Williams system 1</p> <ul style="list-style-type: none"> - 1st layer of primer SX1420, max wet 62 g/m² ±10% - 2nd layer EG1570 with fungicide ingredient, max wet 62 g/m² ±10% <p>Coating conditions: According to valid Sherwin Williams instructions/product data sheet Testing references: Classification PCA10812, Indicative tests PFA11473C, PFA12110A and PFA11856A / DBI</p>
<p>Sherwin Williams System 2</p>	<p>SX1420 EG1170</p>	<p>Surface planed or fine sawn/paint-cut or fine-brushed Coated industrially after kiln drying with: Sherwin Williams system 2</p> <ul style="list-style-type: none"> - 1st layer of primer SX1420, max wet 62 g/m² ±10% - 2nd layer EG1170 fungicide free, max wet 62 g/m² ±10% <p>Coating conditions: According to valid Sherwin Williams instructions/product data sheet Testing references: Classification PCA10812, Indicative tests PFA11473C, PFA12110A and PFA11856A / DBI</p>
<p>Sherwin Williams One-layer system</p>	<p>SX1420 or EG1570 or EG1170</p>	<p>Surface planed or fine sawn/paint-cut or fine-brushed Coated industrially after kiln drying with: Sherwin Williams one-layer systems</p> <ul style="list-style-type: none"> - All coatings above are possible to use as one layer system by industrially coating process without affecting the fire classification, max wet 62 g/m² ±10% - Note: In one-layer system there can be limitations on the application of use <p>Coating conditions: According to valid Sherwin Williams instructions/product data sheet Testing references: Classification PCA10812, Indicative tests PFA11473C, PFA12110A and PFA11856A / DBI</p>
<p>Masquelack coating alternatives, classification</p> <ul style="list-style-type: none"> - Spruce, Larch, Pine, Western Red Cedar: B-s1,d0, thickness 15 – 42 mm, over 42 mm B-s2,d0 - Thermo Pine, Thermo Ash, Thermo Ayous and Thermo Spruce, Thermo Frake and Thermo Poplar: B-s2,d0, thickness 19 – 42 mm, over 42 mm B-s3,d0 		
<p>Masquelack Cosy Vintage System</p>	<p>Cosy Vintage</p>	<p>Surface planed or fine sawn/paint-cut or fine-brushed Coated industrially after kiln drying with: Masquelack Cosy Vintage one-layer system</p> <ul style="list-style-type: none"> - Masquelack Cosy Vintage, max wet 42 g/m² ±10% <p>Coating conditions: According to valid Masquelack instructions/product data sheet Testing references: Classification PCA10648A, Indicative tests PFA11879A, PFA11708A, PFA12110A and PFA11856B / DBI</p>