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## Assessment for “WOODSAFE Exterior WFX” according to EN 16755:2017/AC:2018

This assessment is written on behalf of Woodsafe Timber Protection AB as basis for type approval. Woodsafe Timber Protection AB has tested solid wood panelling of Western Red Cedar (WRC), with thickness 17.5 mm, vacuum pressure impregnated with fire retardant treatment WOODSAFE® Exterior WFX and with application rate (retention) 28 kg/m<sup>3</sup> for accelerated weathering and fire testing. For hygroscopic properties Scots pine sapwood treated with the same fire retardant, with application rate (retention) 134 kg/m<sup>3</sup> has been tested.

The tests performed have been hygroscopicity tests according to EN 16755:2017/AC:2018, accelerated weathering Method B (with UV-lamps) according EN 16755:2017/AC:2018, fire testing initially according to EN 13823:2010+A1:2014 (SBI method) and after accelerated weathering according to EN 13823:2020+A1:2022 (SBI method) and classification according to EN 16755:2017/AC:2018.

The results for Scots pine sapwood according to hygroscopicity test is 22.9 % moisture content. The results for WRC according to hygroscopicity test is 24.6 % moisture content.

The result for WRC according to fire test in the SBI method initially and after accelerated weathering is the same fire class B.

The requirements according to EN 16755:2017/AC:2018 are:

- For INT1:
  - Initial reaction to fire classification, no additional requirements
- For INT2:
  - Initial reaction to fire classification
  - Moisture content < 28%
- For EXT:
  - Initial reaction to fire classification
  - Moisture content < 28%
  - At least the same classification level as initially obtained shall be reached after accelerated weathering
  - The weathering results applies to other species and thickness combinations with the same type and amount of fire retardant product, provided that the fire classification is the same and the thickness is the same or greater than for the product tested

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To generalize results from accelerated weathering tests for EXT to other wood species than the tested one, EN 16755:2017/AC:2018 states that the amount of fire retardant should be the same. Experience and published research shows that a higher retention increases possibility to maintain the same fire classification after weathering. Since the standard does not specify any tolerances on the amount of fire retardant RISE assesses that this applies to the same amount or higher, consistent with the experience and published research mentioned above.

This gives that the product "WOODSAFE® Exterior WFX" fulfils the requirements for DRF Class INT1, INT2 for all wood species, with an application rate (retention)  $\leq 134 \text{ kg/m}^3$ , and EXT for all wood species with the amount of fire retardant (retention)  $\geq 28 \text{ kg/m}^3$  and thickness  $\geq 17.5 \text{ mm}$ . This applies only to products where the initial fire class is B.

**RISE Research Institutes of Sweden AB**  
**Department Building and Real Estate - Technical Wood Assessment**

Performed by



Mattias Rydh

Examined by



Stefan Lindskog

Revision 1, 2025-12-19

This assessment is a revision of the same assessment dated 2024-03-20.

The revision concerns clarification of requirements and limitations regarding the generalization of the results for wood species other than the tested one.

Revision 2, 2026-02-04

Clarification in the last sentence under the section "Durability of Reaction to Fire performance (DRF) Class" that this applies to initial fire class B, but no requirement of the additional classes for smoke and droplets.

Corrected reference to version of EN 13823.

# Verifikat

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Assessment of Woodsafe Exterior WFX according to EN  
16755\_Rev2

Huvuddokument

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