

Ekovilla OY
Katajaharjuntie 10
45720 Kuusankoski
Finland

Magistratsabteilung 39
Rinnböckstraße 15/2
1110 Wien
Telefon +43 1 4000 8039
Fax +43 1 4000 99 8039
post@ma39.wien.gv.at
ma39.wien.at



MA 39 – 20-04411

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Classification

OF FIRE RESISTANCE IN ACCORDANCE WITH EN 13501-2:2016

Sponsor: Ekovilla OY

Prepared by: Municipal Department 39 –
Research Centre, Laboratory and Certification services

Notified Body No.: 1139

Product name: Non-load bearing ceiling structure with loosely injected Ekovilla
cellulose fiber insulation of type „YP 1“

Classification report No.: MA 39 – 20-04411

Issue number: 1

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The original version of this classification report is issued in German language (MA 39 – 20-3482).

In any case of doubt the German version is valid.



1 Introduction

This classification report defines the resistance to fire classification assigned to the non-load bearing ceiling structure with loosely injected Ekovilla cellulose fiber insulation of type „YP 1“ in accordance with the procedures given in EN 13501-2:2016.

2 Details of classified product

2.1 General

The non-load bearing ceiling structure with loosely injected Ekovilla cellulose fiber insulation of type „YP 1“ is defined as a type-classified component. Their function is to withstand the fire in terms of integrity and insulation.

2.2 Discription

The non-load bearing ceiling structure with loosely injected Ekovilla cellulose fiber insulation of type „YP 1“ consists of:

- Internal boarding 13 mm Gyproc GN 13 on a substructure 48 x 48 mm, attached with screws 2.8 x 38 mm for gypsum plasterboards, spaced at 200 mm, screws spaced 10 mm from the edge or 15 mm for shortened boards; joints filled with Knauf joint filler K12, once fully surfaced.
- Lathing 48 x 48 mm rough – spaced at 600 mm, attached by nails 3.1 x 90 mm (shot in).
- Vapour barrier integrity sheet (air-tight) EKOVILLA X5, placed at right angle to the lathing, width 1.30 m, overlapping 100 mm, joints glued together by EKOVILLA Tiivistysteippi 50 mm, attached with staples by a staple gun.
- Lathing 48 x 98 mm K 900 placed on edge, attached by nails 3.1 x 90 mm (shot in).
- Frame, 600 mm thick, made of 13 mm Gyproc GN 13 on a substructure 48 x 48 mm, attached with screws 2.8 x 38 mm for gypsum plasterboards, inbetween EKOVILLA blown in openly 410 mm; lathing 48 x 48 mm rough – spaced at 600 mm, attached by nails 3.1 x 90 mm (shot in) to set the height and attach the thermal elements.

The construction is fully described in the test report listed in point 3.1 on which the classification is based.

2.3 Test reports and test results in support of the classification

(Basic of the REI-Classification)



Name of laboratory	sponsor	Report ref. No.	Test standard
MA 39 Rinnböckstraße 15/2 1110 Vienna Austria	Ekovilla OY Katajajarjuntie 10 45720 Kuusankoski Finland	MA 39 – VFA 2017-0452.01 22 May 2017	EN 1364-2:2000

2.4 Results

Table 1: terms and conditions

Defined heating:	Standard temperature/time curve
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Table 2: Results

Fire resistance test 30 January 2017 (MA 39 – VFA 2017-0452.01):

Duration of the test [min]	38
Integrity	38
Time until the cotton wool was ignited [min]:	-
Time until sustained flaming arose [min]:	-
Time until cracking [min]:	-
Thermal insulation	38
Time until the mean temperature increase at the offside of the flame exceeds 140°C [min]:	-
Time until the maximum temperature increase at the offside of the flame exceeds 180°C [min]:	-



Table 4: Summarised results
(MA 39 – VFA 2017-0452.01)

Test procedure	Parameter	Test result
		(min)
EN 1364-2	E	38
	I	38

3 Classification and direct field of application

3.1 Classification reference

This classification was carried out in accordance with EN 13501-2: 2016, section 7.3.2.

3.2 Classification

The element (described in the cited test report) is classified according to their fire resistance as follows:

non-load bearing ceiling structure with loosely injected Ekovilla cellulose fiber insulation
of type „YP 1“ :

EI	15	30
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Classification fire resistance: *EI 30 a←b*

3.3 Direct applicability of test results

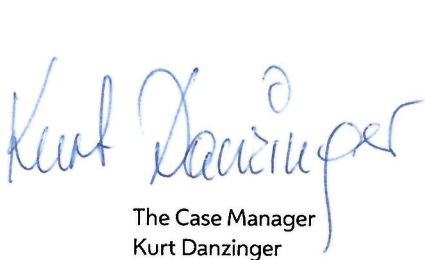
This classification is valid for the following practical application (end use).

EN 1364-2:	Direct applicability of the test results
13.3 Suspended underceilings exposed to flames from below 13.3.1 Size	The results obtained for a test specimen of 4 m x 3 m or more in size may be applied to underceilings of any size provided that the space between the suspension devices is not increased and additional expansion options are accounted for.
13.3.3 Cavity	The test results apply to cavities of any height.

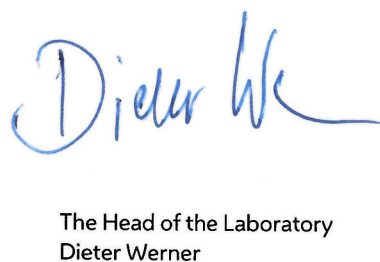
4 Limitations

This classification report is valid for a maximum of 5 years, which means that it ends on 17 September 2025 at the latest. Any provisions of European product standards that limit this validity must be observed.

This classification document does not represent type approval or certification of the product.



The Case Manager
Kurt Danzinger



The Head of the Laboratory
Dieter Werner



The Head of the Research Centre,
Laboratory and Certification Services:
Georg Pommer

