

# Test according to ASTM D3273

Report No.: 751740



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Page 1 of 2  
troj/elm/hbs  
Order no.: 751740  
No. of appendices: 1

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**Material:** Testmaterial was sampled by the Assignor and delivered at Danish Technological Institute the 22<sup>nd</sup> of June 2017.

**Method:** ASTM D3273-16: *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*

**Period:** The testing was carried out from 23<sup>rd</sup> of June to 17<sup>th</sup> of July 2017.

**Note** Detailed informations on page 2

**Result:** Individual results appear from Appendix 1.

**Storage:** The test material will be destroyed after 3 month, unless otherwise agreed.

**Terms:** The test was carried out according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

**Date/place:** 22<sup>nd</sup> of August 2017, Danish Technological Institute, Wood Technology, Taastrup

**Signature:** Test responsible

Co-signatory

Report no. 751740  
Page 2 of 2  
Initials troj/elm/hbs

## Detailed informations:

**Material:** 3 types of testmaterial was sampled by the Assignor and delivered at Danish Technological Institute on 22<sup>nd</sup> of June 2017. The samples were marked:

1. Lithos
2. Albus
3. Plus+

The samples were cut in a dimension of 75 x 100 mm and 10-13 mm thick.

Referenematerial of Scots pine sapwood (*Pinus Sylvestris*) and Gypsum board panels were prepared by Technological Institute with dimensions of 75 x 100 mm and 10-13 mm thick.

**Fungi:** *Aureobasidium pullulans* – ATCC 9348  
*Aspergillus niger* – ATCC 6275  
*Penicillium citrinum* - CBS 342.61

The fungi were grown on V8-agar plates for 10-14 days at 26°C. The plates were applied 10 mL of 0.9% NaCl-solution, and the spores were harvested with a Drigalski spatula. The spore-suspension was filtered through a thin layer of cotton wool to remove mycelia fragments and residue spore clumps. The suspension was transferred to a flask containing glass beads and shaken to break clumps of cells.

**Exposure:** In a cabinet containing a tray with soil the spore suspension were distributed evenly over the surface of the soil.

For checking the viability of the mold growth in the cabinet untreated control specimens of Scots pine sapwood (*Pinus sylvestris*) and malt agar plates were places in the cabinet. After verifying the mold growth in the cabinet, the test-panels and the reference-panels were placed vertically randomly in the cabinet approximately 75 mm above the surface of the inoculated soil.

The panels were exposed for four weeks from 20<sup>th</sup> July to 17<sup>th</sup> August 2017 in the cabinet containing a temperature of 32.5(±1)°C and a relative humidity of 95(±3)%

**Rating:** The test-panels and the reference-panels were evaluated each week for four weeks according to ASTM D3273:

<b>Rating scale according to ASTM D3273 Percentage of surface defacement</b>	
10	No defacement
9	1-10% defacement
8	11-20% defacement
7	21-30% defacement
6	31-40% defacement
5	41-50% defacement
4	51-60% defacement
3	61-70% defacement
2	71-80% defacement
1	81-90% defacement
0	100% defacement

Order no.: 751740  
 Appendix: 1  
 Initials: troj/elm/hbs

## Appendix 1

### Results

Specimen	No.	Evaluation date			
		27 <sup>th</sup> July	3 <sup>rd</sup> August	10 <sup>th</sup> August	17 <sup>th</sup> August
Lithos	1	10	10	9	9
	2	10	10	9	9
	3	10	10	9	9
Albus	1	10	10	9	9
	2	10	9	8	8
	3	10	9	8	8
Plus+	1	9	9	8	8
	2	9	9	8	7
	3	9	9	7	7
Scots pine Sapwood (Reference)	1	4	3	2	0
	2	4	3	2	0
	3	4	3	2	0
Gypsum board (Reference)	1	4	3	2	0
	2	4	3	2	0
	3	4	3	2	0