

Test Report

EN 330

Report No.: 827337-1 2026



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Jos/bkv
Order no.: 247846
No. of appendices: 2

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Material: Aquaprimer 2907-63. Spraying 200 g/m² (± 10%)
Aquatop 2600-82 as topcoat 200 g/m².

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 05-11-2018.

Method: EN 330 (2014): *Wood preservatives – Field test method for determining the relative protective effectiveness of a wood preservative for use under a coating and exposed out-of-ground contact: L-joint method.*

Deviation from method: 10 test specimens exposed in Denmark and 10 specimens in Malaysia for non-destructive inspection. Additionally, the test also includes Larch hart wood and spruce.

Period: The testing was carried out from 04-12-2018 to 30-04-2026.
The weathering took place from 19-05-2019 to 30-04-2026 at Danish Technological Institute test sight, Denmark, Taastrup and Borneo, Malaysia. The testing is ongoing. *The 2020 assessment in Malaysia was cancelled due to the Covid-19 pandemic.*

Result: Vⁿ: Median rating of specimens.

Treatment	Type of sample	Exposure period – years						
		1	2	3	4	5	6	7
Test system*	Non-destructive - V ^e	#/#/0/0	0/1/0/1	1/1/0/1	1/2/0/1	2/2/0/1.5	2/3/0/2.5	2.5/4/0/3
Untreated w. ICP top coating*	Non-destructive - V ^e	#/#/0/0	1/1/0/0	1/1/0/0	1/2/0/0	2/2/0/1	3/3/1/1	3/4/1/1
1% TBTO**	Non-destructive - V ^e	#/0	1/0	1/0	1/0	1.5/1	2/1	3/1

V^e: Evaluation of the external surfaces. Vⁱ: Evaluation of the internal condition.

* Larch Hartwood MY/ Spruce MY/Larch Hartwood DK/Spruce DK

** Pine Sapwood MY/ Pine Sapwood DK

2020 assessment in MY was cancelled due to the Covid-19 pandemic

Note: The interpretation and practical conclusions that can be drawn from a test report demand a specialized knowledge of the subject of wood preservation and for these reasons this test report cannot of itself constitute an approval certificate.

Terms: This test was conducted accredited in accordance with international requirements ISO/IEC 17025:2017 and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent. This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature Approved and signed by:

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Details on retention and inspection data

Product under test:	Aquaprimer 2907-63 (primer). Containing 0.6% IPBC Aquatop 2600-82 (topcoat)					
Treatment:	Aquaprimer 2907-63 on 04-12-2018. Spraying 200 g/m ² (± 10%) Aquatop 2600-82 as topcoat 200 g/m ²					
Dilutions:	Ready-to-use product.					
Wood Species:	Larch (<i>Latrix decidue</i> Mill), hartwood. Average density: 497.0 kg/m ³ . Norwegian Spruce (<i>Picea abies</i> L.). Average density: 360.4 kg/m ³ . Scots pine (<i>Pinus sylvestris</i> , L.), sapwood. Average density: 524.3 kg/m ³ (TBTO reference)					
Period:	The testing was carried out from 04-12-2018 to 30-04-2026. The specimens were air-dried in a climate chamber at 20 C and 65% RH. All specimens were exposed from 19-05-2019.					
No. of Replica:	10 of Larch, hartwood exposed in Malaysia and 10 exposed in DK 10 of Norwegian Spruce, Sap wood exposed in Malaysia and 10 exposed in DK 10 of Scots pine, sapwood, Sap wood exposed in Malaysia and 10 exposed in DK (TBTO reference)					
Reference product:	1% TBTO, dipping for 3 min. Treatment carried out 28-11-2018. Topcoat treatment with an alkyd varnish (ICP) according to EN 927:2012. Brushing 135-165 g/m ² . Treatment carried out 10-12-2018, 12-12-2018 and 13-12-2018.					
Exposure site Taastrup:	Danish Technological Institute, Taastrup, Denmark. 55°39'36.4"N; 12°16'34.5"E. Elevation: about 34 m. Average temperatures; maximum: 9-20°C, minimum: -2-5°C. Average annual precipitation: about 672 mm. Humidity: 70-80%. The test site is located in an urban pasture ecosystem without high vegetation.					
Exposure site Malaysia:	University Malaysia Sarawak (UNIMAS), Borneo, Malaysia. 1°27'57.2"N; 110°26'58.9"E. Elevation: about 15.5 m. Average temperatures; maximum: 27-35°C, minimum: 22-25.5°C. Average annual precipitation: about 3900 mm. Humidity: 80-90%. The test site is located in a secondary tropical forest approaching peat swamp forest ecosystem surrounded by 15-20 m high trees.					
Evaluation Date:	Year 1	Denmark	13-05-2020	Year 1	Malaysia	Cancelled
	Year 2	Denmark	28-05-2021	Year 2	Malaysia	15-06-2021
	Year 3	Denmark	23-05-2022	Year 3	Malaysia	02-05-2022
	Year 4	Denmark	17-04-2023	Year 4	Malaysia	24-04-2023
	Year 5	Denmark	08-03-2024	Year 5	Malaysia	01-03-2024
	Year 6	Denmark	26-05-2025	Year 6	Malaysia	11-05-2025
	Year 7	Denmark	30-04-2026	Year 7	Malaysia	18-04-2026

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Visual observations – median fungal attack rating according to EN 330: 2014

Table 1 Grading System		
Rating	Description	Definition
0	Sound	No evidence of decay
1	Slight attack	Visible signs of decay, but no significant softening or weakening of the wood
2	Moderate attack	Areas of decay (softened, weakened wood); typical not more than 3 cm ² and to a depth of 2 mm to 3 mm
3	Severe attack	Marked softening and weakening of the wood typical of fungal decay, typically more than 3 cm ² affected and to a depth of 3 mm to 5 mm or more over a few cm ²
4	Failure	Very severe and extensive rot; joint member(s) often capable of being easily broken

Note: Observations made on specimens for non-destructive inspection will often yield a lower rating than when surfaces created by sawing are available for evaluation.

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Preservative:	<i>Aquaprimer 2907-63 and Aquatop 2600-82</i>		Larch Hartwood					
Exposure date:	19-05-2019							
Test site:	Malaysia							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1159	187	-	1	1	1	1	2	3
1160	189	-	0	0	1	2	2	3
1161	220	-	1	1	1	1	2	2
1162	199	-	1	1	1	2	3	3
1163	199	-	0	1	1	2	2	2
1164	206	-	0	1	1	1	2	2
1165	198	-	0	1	2	3	3	3
1166	195	-	1	1	1	2	3	2
1167	207	-	0	1	1	1	2	2
1168	208	-	0	1	1	2	3	4
Average/median	201/-	-/-	0.4/0	0.9/1	1.1/1	1.6/2	2.4/2	2.6/2.5

Preservative:	<i>Aquaprimer 2907-63 and Aquatop 2600-82</i>		Norway Spruce					
Exposure date:	19-05-2019							
Test site:	Malaysia							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1169	214	-	1	2	2	4	4	4
1170	218	-	1	1	1	2	3	3
1171	206	-	1	1	2	3	3	4
1172	208	-	2	2	3	3	3	4
1173	180	-	0	0	1	1	2	3
1174	189	-	2	4	4	4	4	4
1175	213	-	1	1	2	2	4	4
1176	198	-	0	0	1	2	2	3
1177	189	-	0	1	1	2	3	3
1178	199	-	1	1	2	2	3	4
Average/median	201/-	-/-	0.9/1	1.3/1	1.9/2	2.5/2	3.1/3	3.6/4

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Preservative:	<i>Aquaprimer 2907-63 and Aquatop 2600-82</i>		Larch Hartwood					
Exposure date:	19-05-2019							
Test site:	Denmark							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1229	180	0	0	0	0	0	1	1
1230	208	0	0	0	0	0	0	0
1231	210	0	0	0	0	0	0	0
1232	192	0	0	0	0	1	1	1
1233	180	0	0	0	0	0	1	1
1234	198	0	0	0	0	0	0	0
1235	195	0	0	0	0	0	0	0
1236	202	0	0	0	0	0	1	1
1237	198	0	0	0	0	0	0	0
1238	199	0	0	0	0	0	0	0
Average/median	196/-	0/0	0/0	0/0	0/0	0.1/0	0.4/0	0.4/0

Preservative:	<i>Aquaprimer 2907-63 and Aquatop 2600-82</i>		Norway Spruce					
Exposure date:	19-05-2019							
Test site:	Denmark							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1239	219	0	0	1	1	2	3	3
1240	206	0	2	2	2	4	4	4
1241	207	0	0	1	1	1	1	1
1242	203	0	2	2	2	3	4	4
1243	205	0	2	2	2	3	3	4
1244	199	0	2	2	2	2	2	4
1245	217	0	0	0	1	1	1	1
1246	213	0	0	0	1	2	3	3
1247	210	0	0	1	1	1	2	3
1248	204	0	1	1	1	1	2	2
Average/median	208/-	0/0	0.9/1	1.1/1	1.3/1	2.0/1.5	2.5/2.5	2.9/3

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Preservative:	TBTO w/ ICP top		Scots Pine sapwood						
Exposure date:	19-05-2019								
Test site:	Malaysia								
L joint for non-destructive inspection	Retention		Visual observations – median fungal attack rating						
Test No	Tenon (g/m ²)	Mortise (g/m ²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1199	166	186	-	1	1	1	2	4	4
1200	163	192	-	1	1	1	1	2	3
1201	170	181	-	0	0	1	1	1	2
1202	163	199	-	1	1	1	2	2	3
1203	166	192	-	1	1	1	1	2	2
1204	167	165	-	0	0	1	1	2	3
1205	167	160	-	0	2	2	2	2	4
1206	169	193	-	1	1	1	2	3	4
1207	189	169	-	1	1	1	2	3	4
1208	165	183	-	0	0	1	1	1	2
Average/median	169/-	182/-	-/-	0.6/1	0.8/1	1.1/1	1.5/1.5	2.2/2	3.1/3

Preservative:	TBTO w/ ICP top		Scots Pine sapwood						
Exposure date:	19-05-2019								
Test site:	Denmark								
L joint for destructive inspection	Retention		Visual observations – median fungal attack rating						
Test No	Tenon (g/m ²)	Mortise (g/m ²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1269	198	180	0	0	0	1	1	1	1
1270	161	194	0	0	0	0	1	1	1
1271	175	186	0	0	0	0	0	1	1
1272	178	171	0	0	0	0	1	1	1
1273	192	190	0	0	0	0	0	1	1
1274	200	160	0	0	0	0	0	0	1
1275	178	194	0	0	1	1	1	1	1
1276	185	166	0	0	0	1	1	1	1
1277	163	181	0	0	0	1	1	1	1
1278	185	183	0	0	0	0	0	1	1
Average/median	182/-	181/-	0/0	0/0	0.1/0	0.4/0	0.6/1	0.9/1	1/1

*. Non-destructive/destructive inspection

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Preservative:	Untreated w/ ICP top	Larch Hartwood						
Exposure date:	19-05-2019							
Test site:	Malaysia							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1209	-	-	1	1	1	2	2	3
1210	-	-	0	0	1	1	2	2
1211	-	-	0	0	1	1	3	2
1212	-	-	1	1	1	2	3	3
1213	-	-	0	0	1	1	2	2
1214	-	-	1	1	1	2	3	3
1215	-	-	1	1	1	2	3	3
1216	-	-	1	1	1	2	2	3
1217	-	-	1	1	1	1	3	3
1218	-	-	1	1	1	2	3	3
Average/median	-/-	-/-	0.7/1	0.7/1	1.0/1	1.6/2	2.6/3	2.7/3

Preservative:	Untreated w/ ICP top	Norway Spruce						
Exposure date:	19-05-2019							
Test site:	Malaysia							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1219	-	-	1	1	2	3	4	4
1220	-	-	1	1	2	2	4	4
1221	-	-	1	1	1	2	3	4
1222	-	-	1	2	2	2	2	4
1223	-	-	1	1	2	3	3	4
1224	-	-	1	1	2	2	3	4
1225	-	-	1	1	1	2	3	3
1226	-	-	0	1	1	2	4	4
1227	-	-	1	2	3	3	4	4
1228	-	-	1	1	2	3	4	4
Average/median	-/-	-/-	0.9/1	1.2/1	1.8/2	2.4/2	3.4/3	3.9/4

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Preservative:	Untreated w/ ICP top	Larch Hartwood						
Exposure date:	19-05-2019							
Test site:	Denmark							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1279	-	0	0	0	0	1	1	1
1280	-	0	0	0	0	0	1	1
1281	-	0	0	0	0	1	1	1
1282	-	0	0	0	0	1	1	1
1283	-	0	0	0	0	0	1	1
1284	-	0	0	0	1	1	1	1
1285	-	0	0	0	0	0	0	0
1286	-	0	0	0	0	0	0	0
1287	-	0	0	0	0	0	1	1
1288	-	0	0	0	0	0	0	0
Average/median	-/-	0/0	0/0	0/0	0.1/0	0.4/0	0.7/1	0.7/1

Preservative:	Untreated w/ ICP top	Norway Spruce						
Exposure date:	19-05-2019							
Test site:	Denmark							
L joint for non-destructive inspection	Retention	Visual observations – median fungal attack rating						
Test No	Test panel (g/m²)	1 year	2 year	3 year	4 year	5 year	6 year	7 year
1289	-	0	0	0	1	1	1	1
1290	-	0	0	0	0	1	1	1
1291	-	0	0	1	1	1	1	1
1292	-	0	0	0	0	0	1	1
1293	-	0	0	0	0	1	1	1
1294	-	0	0	0	1	1	1	1
1295	-	0	0	0	0	1	1	1
1296	-	0	0	1	1	1	1	1
1297	-	0	0	0	0	1	1	1
1298	-	0	0	0	0	1	1	1
Average/median	-/-	0/0	0/0	0.2/0	0.4/0	0.9/1	1.0/1	1.0/1