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## Test Report No.2549-2/2017

Forest and Wood Products Research and Development Institute  
Testing Laboratory

**Customer:** TreeTops A/S.

Customer's address: Egtvedvej 104, 6000 Kolding, Denmark.  
Reg. No. 33749368.

Date of the order: 12.09.2017.

Testing was done according contract No. 95-10/17 MU.

Test samples received: 03.10.2017.

### Description of product (According to customer's information)

- Product name: Wood-plastic composite (WPC) decking Kirkedal SOLID.
- Manufacturer: TreeTops A/S.
- Materials used for manufacturing:
  - wooden dust;
  - plastic;
  - coupling agents;
  - color batches;
  - lubricant.
- Board dimensions: 130 × 4000 × 18 mm.
- Product weight: 3.3 kg/m.

### Sampling:

Specimens were manufactured at 08.06.2017. and sampling was done by TreeTops A/S Egtvedvej 104, 6000 Kolding, Denmark at 17.07.2017. Specimens were taken from warehouse of ready production.

### Application of building product (according to customer's information):

Wood-plastic composite (WPC) decking Kirkedal SOLID is intended to use as decking boards. Product is identified by product standard EN 15534-1:2014.

### Specimen preparation for testing:

Specimens were prepared for testing by TreeTops A/S and delivered to testing laboratory by Hedinberg SIA at 03.10.2017.

### Substrates used:

Substrates were not used.

### Conditioning of specimens:

Specimens were conditioned according to standard EN 13238:2010.

Conditioning method: constant mass.

Temperature:  $t = 23 \pm 1$  °C.

Relative humidity: RH =  $50 \pm 5\%$ .

Conditioning period: 14 days.

**Test standard:** EN ISO 11925-2:2010.

**Test date:** 17.10.2017.

**Test results:**

Flame source was applied to surface and bottom edge, see Figure 1. Test result summary is shown in table 1.

*Table 1*

Specimen No.	Orientation	Flame application	Flame application time, s	Flame reach 150 mm mark, time, s	Damage by flame, mm	Ignition of filter paper, yes/no	Ignition time, s	Flameout time, s
2549-2-1	↑	surface	15	-	40	no	-	-
2549-2-2	↑	surface	15	-	40	no	-	-
2549-2-3	↑	surface	15	-	40	no	-	-
2549-2-4	→	surface	15	-	45	no	-	-
2549-2-5	→	surface	15	-	40	no	-	-
2549-2-6	→	surface	15	-	45	no	-	-
2549-2-7	↑	bottom edge	15	-	40	no	2	15
2549-2-8	↑	bottom edge	15	-	35	no	2	15
2549-2-9	↑	bottom edge	15	-	35	no	2	15
2549-2-10	→	bottom edge	15	-	35	no	2	15
2549-2-11	→	bottom edge	15	-	35	no	2	15
2549-2-12	→	bottom edge	15	-	35	no	3	15

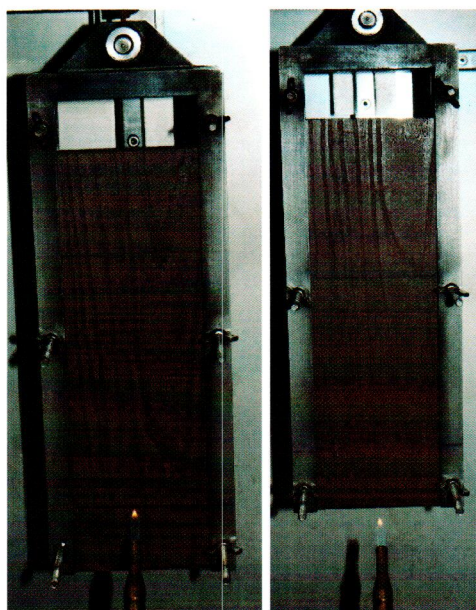
**Observations during the test:**

Flame source was applied to surface and bottom edge, see Figure 1. When flame source was applied to surface specimens did not ignite. Specimens after test are shown in Fig. 2.

**Deviations from standard:**

No.

**Photo:**



*Fig. 1. Ignitability test (flame application to surface and bottom edge).*



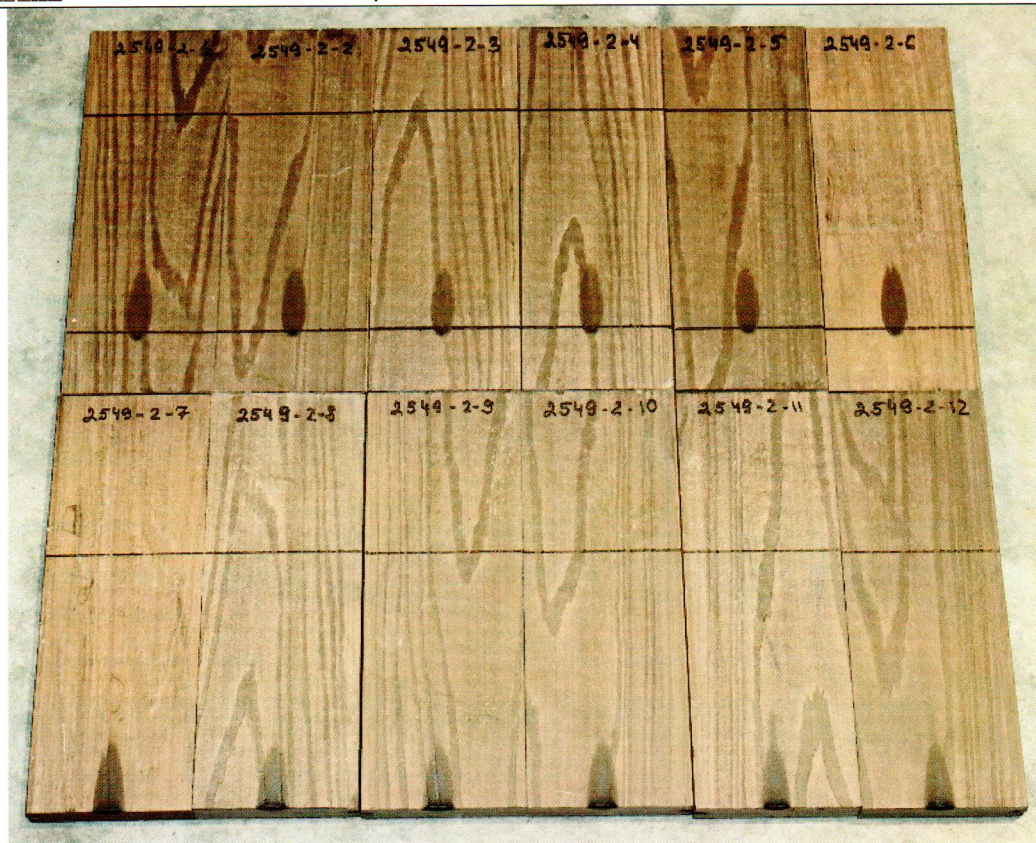


Fig.2. Specimens after tests.

According to EN ISO 11925-2:2010 test results relate to the behavior of test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Date of issue: 19.10.2017.



Head of Laboratory

K.Būmanis

(signature and name)

Tests carried out by

E.Bukšāns

(signature and name)