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Test Report No. 5080-1/2020

Forest and Wood Products Research and Development Institute Testing Laboratory

Customer: “Baltic CG” SIA.

Customer’s address: Cesvaines street 4, Riga, LV-1073, Latvia.
Reg. No. 401033203755.

Manufacturer and owner of the test report: “ProfHolod” Limited.

Address: 141101, Moscow region, Schelkovo district, Schelkovo, Agrohimpriy, building 58, Russia.
INN: 7705671650.

Date of the order: 02.10.2020.

Testing was done according contract No. 106-10/20 MU.

Test samples received: 01.10.2020.

Description of product (According to customer’s information)

- Product: PIR board with foil/foil soft linings.
- Manufacturer: “ProfHolod” Limited.
- Materials used for manufacturing: insulation polyisocyanurate foam (PIR), foil.
- Product nominal thickness: 25 and 60 mm.
- Density of PIR insulating core: $31 \pm 2 \text{ kg/m}^3$.

Sampling:

Specimens were manufactured by “ProfHolod” Limited at 02.09.2020. at Tula region, Donskoj, microdistrict Central, Lenin street 7A, Russia. Sampling was done by “ProfHolod” Limited at Tula region, Donskoj, microdistrict Central, Lenin street 7A, Russia at 02.09.2020. Specimens were taken from warehouse of finished products and delivered to laboratory by customer.

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

Product is intended to use as a thermal insulation product for buildings. Product is identified by standard EN 13165:2012+A2:2016.

Specimen preparation for testing:

Specimens were prepared for testing and delivered to testing laboratory by “Baltic CG” SIA at 01.10.2020.

Substrates used:

Substrates were not used.

Conditioning of specimens:

Specimens were conditioned according to standard EN 13238:2010.

Conditioning method: constant mass.

Temperature: $t = 23 \pm 2 \text{ }^\circ\text{C}$.

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

Conditioning period: 4 days.

Test standard: EN ISO 11925-2:2020.

Test date: 06.10.2020.

Test results:

Flame source was applied to surface, bottom edge and side 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
Specimens with 25 mm thickness								
5080-1-1	-	surface	15	-	65*	no	-	-
5080-1-2	-	surface	15	-	60*	no	-	-
5080-1-3	-	surface	15	-	0	no	-	-
5080-1-4	-	surface	15	-	0	no	-	-
5080-1-5	-	surface	15	-	65*	no	-	-
5080-1-6	-	surface	15	-	60*	no	-	-
5080-1-7	-	bottom edge	15	-	50	no	1	19
5080-1-8	-	bottom edge	15	-	50	no	3	19
5080-1-9	-	bottom edge	15	-	50	no	1	20
5080-1-10	-	bottom edge	15	-	50	no	3	20
5080-1-11	-	bottom edge	15	-	45	no	1	19
5080-1-12	-	bottom edge	15	-	50	no	1	20
Specimens with 60 mm thickness								
5080-1-13	-	surface	15	-	45*	no	-	-
5080-1-14	-	surface	15	-	0	no	-	-
5080-1-15	-	surface	15	-	0	no	-	-
5080-1-16	-	surface	15	-	0	no	-	-
5080-1-17	-	surface	15	-	0	no	-	-
5080-1-18	-	surface	15	-	0	no	-	-
5080-1-19	-	bottom edge	15	-	40	no	1	19
5080-1-20	-	bottom edge	15	-	45	no	1	19
5080-1-21	-	bottom edge	15	-	40	no	1	20
5080-1-22	-	bottom edge	15	-	50	no	1	18
5080-1-23	-	bottom edge	15	-	55	no	1	19
5080-1-24	-	bottom edge	15	-	40	no	1	20
5080-1-25	-	side bottom edge	15	-	105	no	1	15
5080-1-26	-	side bottom edge	15	-	90	no	1	15
5080-1-27	-	side bottom edge	15	-	100	no	1	15
5080-1-28	-	side bottom edge	15	-	90	no	1	15
5080-1-29	-	side bottom edge	15	-	95	no	1	15
5080-1-30	-	side bottom edge	15	-	95	no	1	15

* damage by flame - delamination of foil from foam

Observations during the test:

Flame source was applied to surface, bottom edge and side bottom edge, see Figure 1. When flame source was applied to surface specimens did not ignite. Specimens extinguish naturally after the flame removal. Specimens after tests are shown in Fig. 2.-4.

Deviations from standard:

No.

Photo:

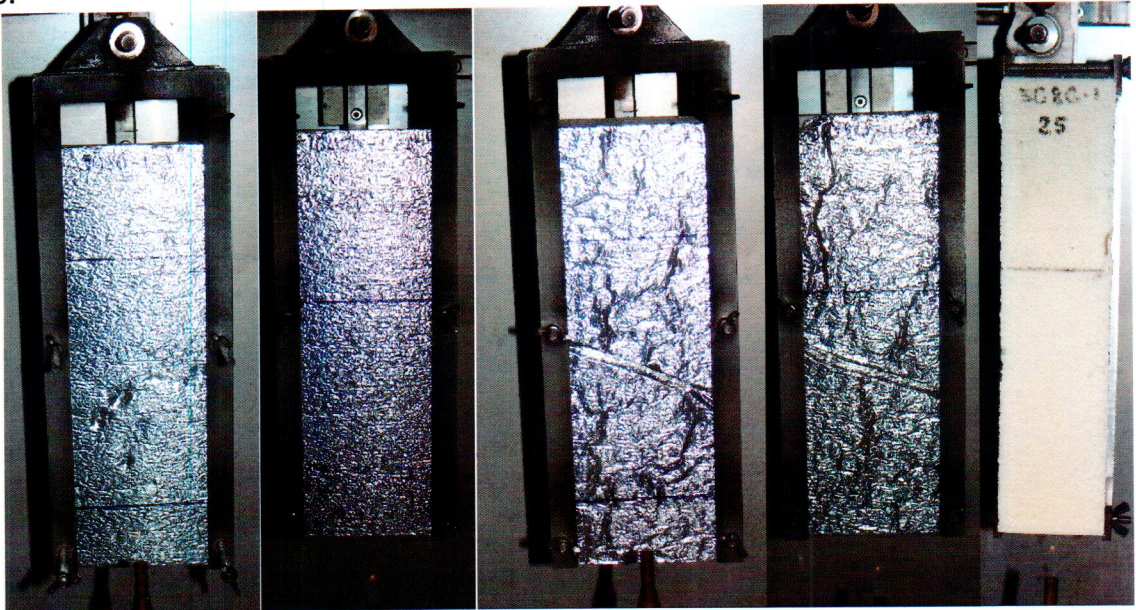


Fig. 1. Ignitability test (flame application to surface, bottom edge and side bottom edge).

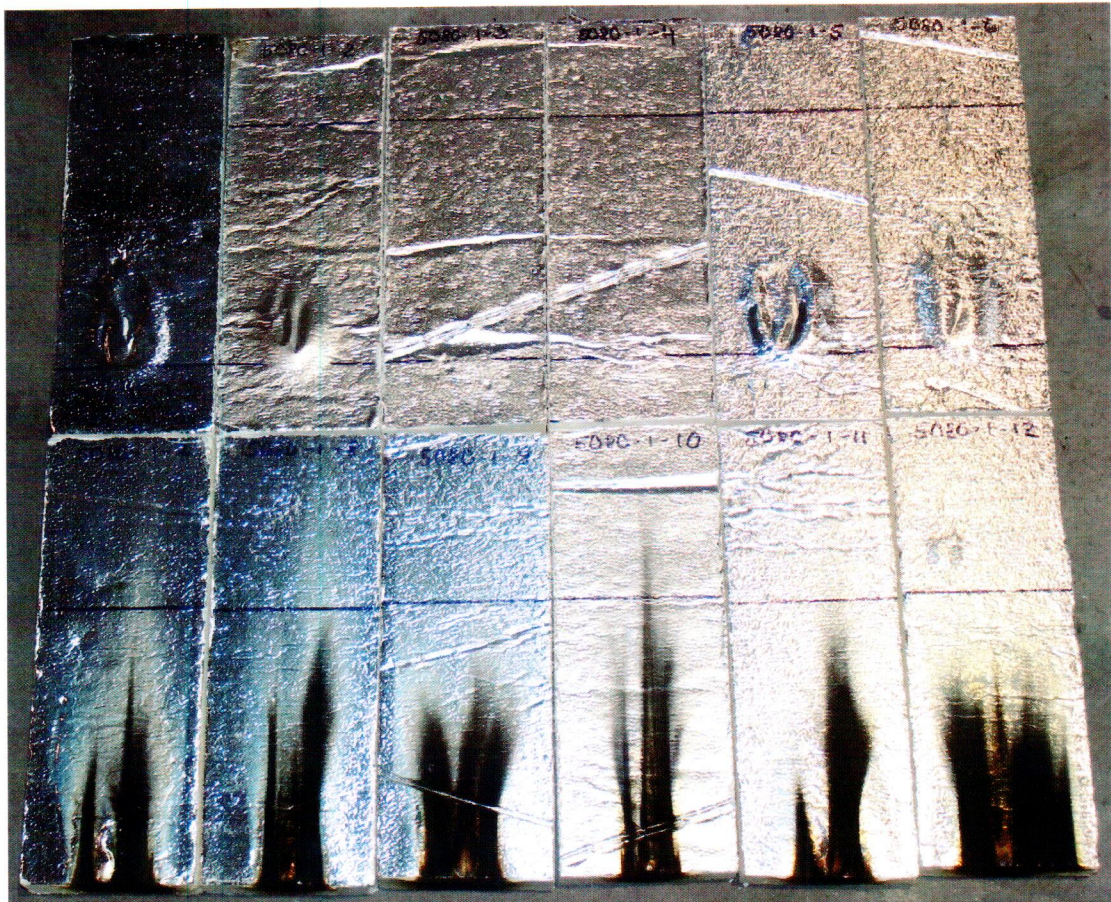


Fig.2. Specimens with 25 mm thickness after tests.

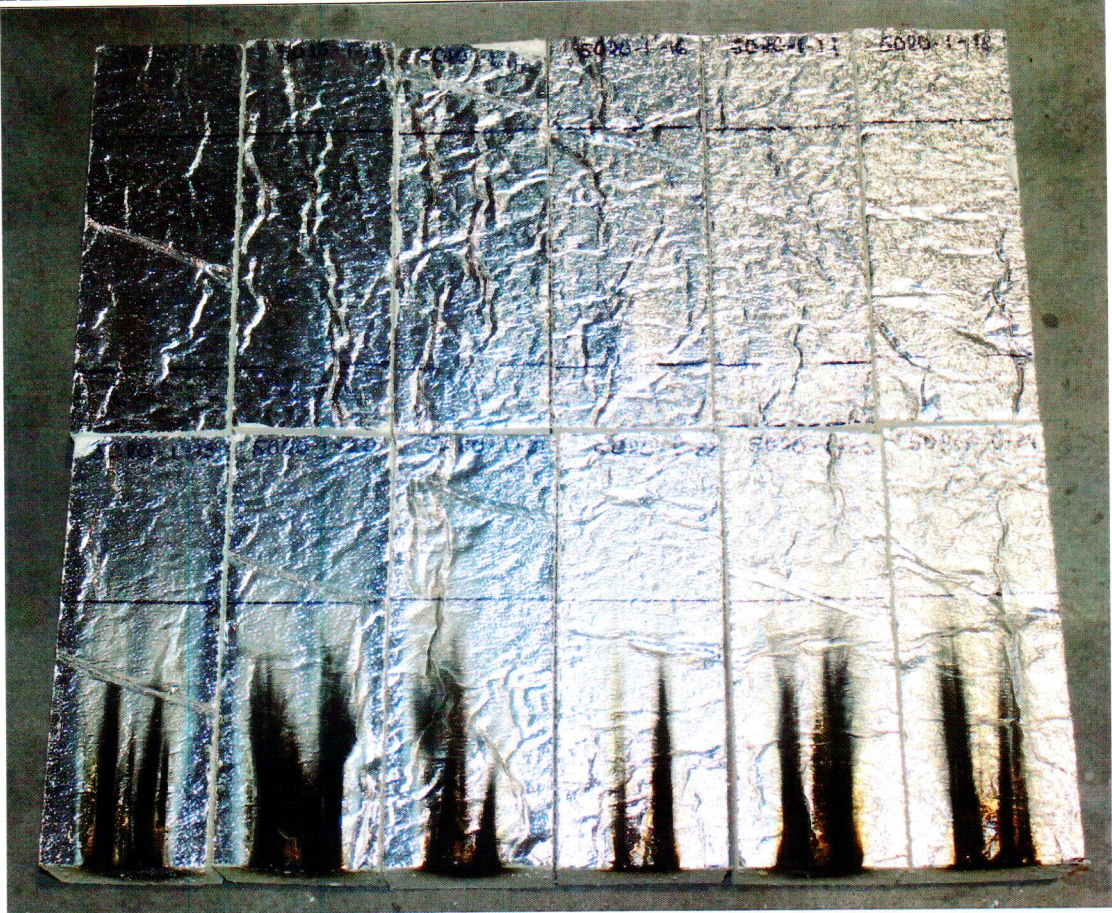


Fig.3. Specimens with 60 mm thickness after tests.

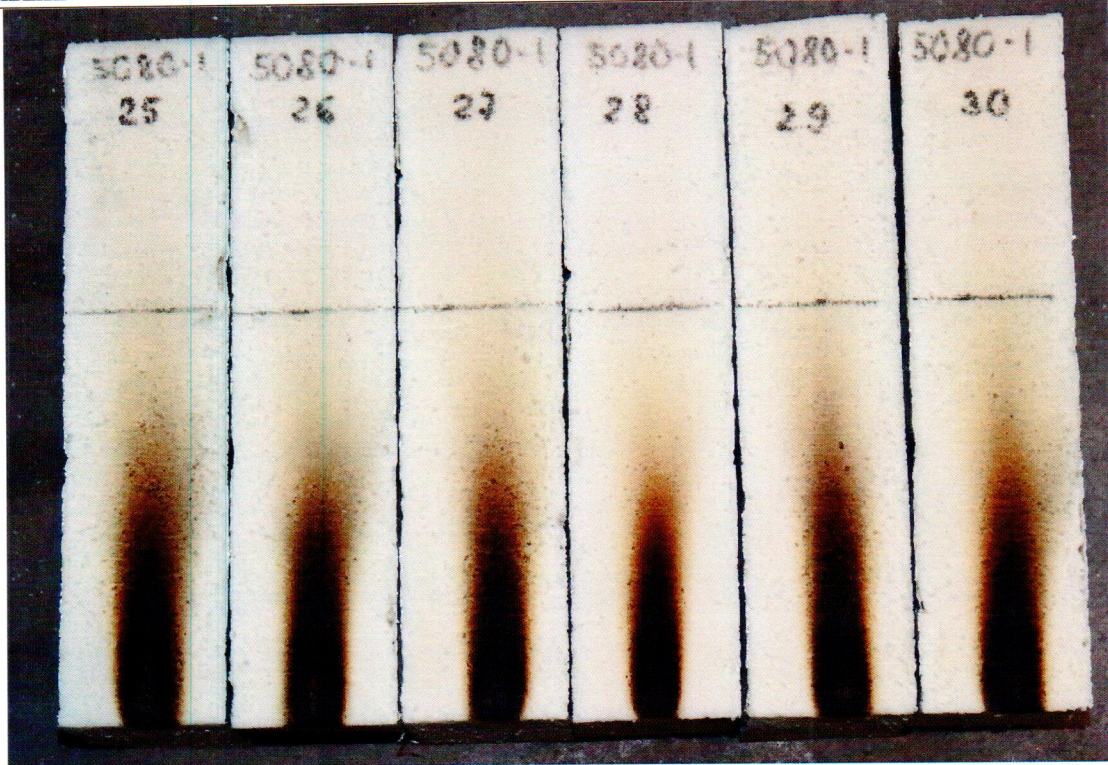


Fig.4. Specimens with 60 mm thickness after tests.

According to EN ISO 11925-2:2020 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: 21.10.2020.



Head of Laboratory

K.Būmanis

(signature and name)

Tests carried out by

E.Bukšāns

(signature and name)

Test results refer only to these test objects. This test report may not be reproduced other than in full, excepted with the prior written approval of Testing Laboratory of the Forest and Wood Products Research and Development Institute