SYCHTA LABORATORIUM Sp. J.
Laboratorium Badań Palności Materiałów
ul. Ofiar Stutthofu 90
72-010 Police

AB 1501

TEST REPORT

Order no: 83A30221 Signature: SL/Z-1060/DIN4102-B2/1095a/2024 Police, 10.12.2024

Test methods:

1. DIN 4102-1:1998-05 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.
2. DIN 53438-2:1984-06 Testing of combustible materials; response to ignition by a small flame; edge ignition
3. DIN 53438-3:1984-06 Testing of combustible materials; response to ignition by a small flame; surface ignition

Content of request: Research according to DIN 4102-1:1998-05 - building class B2

Sponsor: Camira Fabrics Ltd
Hopton Mils
Mirfield HD9 4 AY, United Kingdom

Material: Halcyon Cedar

Composition: Composition details: 78% Polyester, 16% Recycled Polyester, 6% Textile to Textile Recycled Polyester.
Sample 1: Batch: 533316, Colour: Lake
Sample 2: Batch: 552136, Colour: Almond
Sample 3: Batch: 553317, Colour: Nutmeg
Fabric Type: Flat Woven with Performance Finish Backcoat

Manufacturer/supplier: Camira Fabrics Ltd
Hopton Mils
Mirfield HD9 4 AY, United Kingdom

Assessment: The material fulfils the requirements of the building class B2 acc. to DIN 4102-1:1998-05.

Validity of test report: 10.12.2029

The reprint and the copying: only with the agreement of Camira Fabrics Ltd

Without the written consent of the Sychta Laboratory the report can be copied only in one piece.

Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

Content of test report: six pages with signature and numbers.

1. Test results class B2 according DIN 4102-1

1.1. Edge ignition - DIN 53438-2

Exposure time of pilot burner flame - 15 s
Time from start of test.

Sample 1: Batch: 533316, Colour: Lake

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	2	1	3	4	3	2	4	3	4	4
Extinction time	s	-	17	17	16	-	-	-	-	-	-
Burning time	s	18	16	14	12	17	18	16	17	16	16
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	9	7	8	4	7	8	7	8	7	8
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

Sample 2: Batch: 552136, Colour: Almond

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	3	3	4	4	4	3	4	3	4	3
Extinction time	s	-	-	-	-	-	-	-	-	-	-
Burning time	s	17	17	16	16	16	17	16	17	16	17
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	9	8	7	7	7	7	7	7	7	6
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

Sample 3: Batch: 553317, Colour: Nutmeg

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	2	4	3	3	3	3	3	4	3	4
Extinction time	s	-	18	-	-	-	-	-	-	-	-
Burning time	s	18	14	17	17	17	17	17	16	17	16
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	7	7	8	8	7	7	8	8	7	7
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

Remarks: none

1.2. Surface ignition - DIN 53438-3

Exposure time of pilot burner flame - 15 s
Time from start of test.

Sample 1: Batch: 533316, Colour: Lake

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	4	6	6	5	6	6	6	6	5	6
Extinction time	s	-	-	17	-	19	19	17	19	17	-
Burning time	s	16	14	11	15	13	13	11	13	12	14
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	7	6	7	6	6	6	7	7	6	7
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

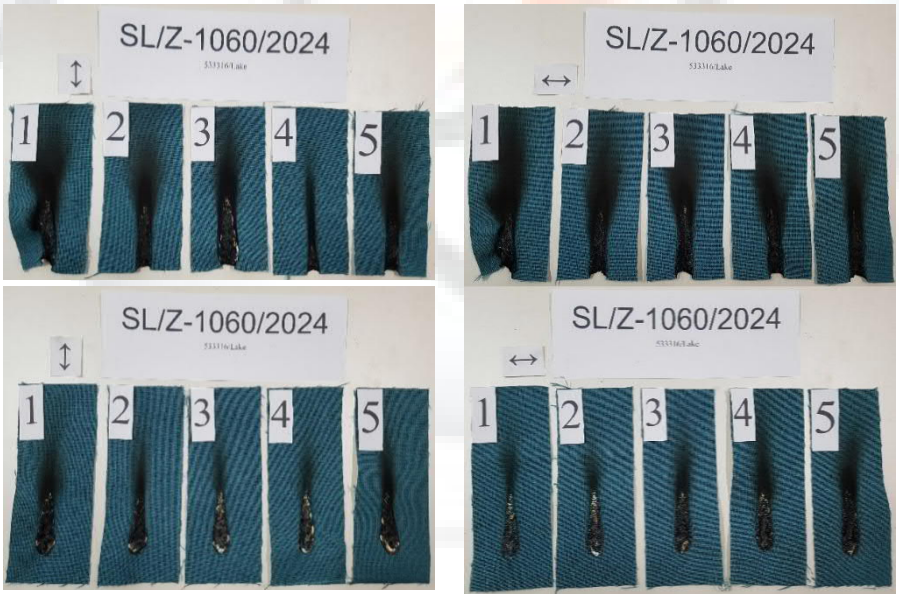
Sample 2: Batch: 552136, Colour: Almond

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	6	6	5	7	6	5	5	6	6	4
Extinction time	s	17	-	-	17	-	17	17	17	17	17
Burning time	s	11	14	15	10	14	12	12	11	11	13
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	6	6	6	7	7	6	7	6	6	6
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

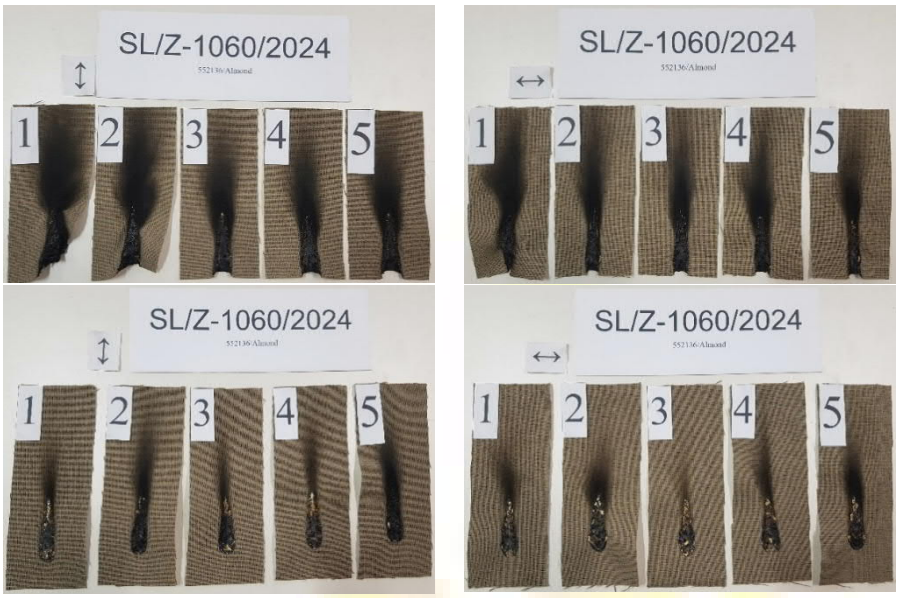
Sample 3: Batch: 553317, Colour: Nutmeg

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	6	6	7	6	5	7	5	4	6	8
Extinction time	s	-	-	17	-	-	-	-	19	18	19
Burning time	s	14	14	10	14	15	13	15	15	12	11
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	6	7	7	8	7	6	7	7	8	7
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke									

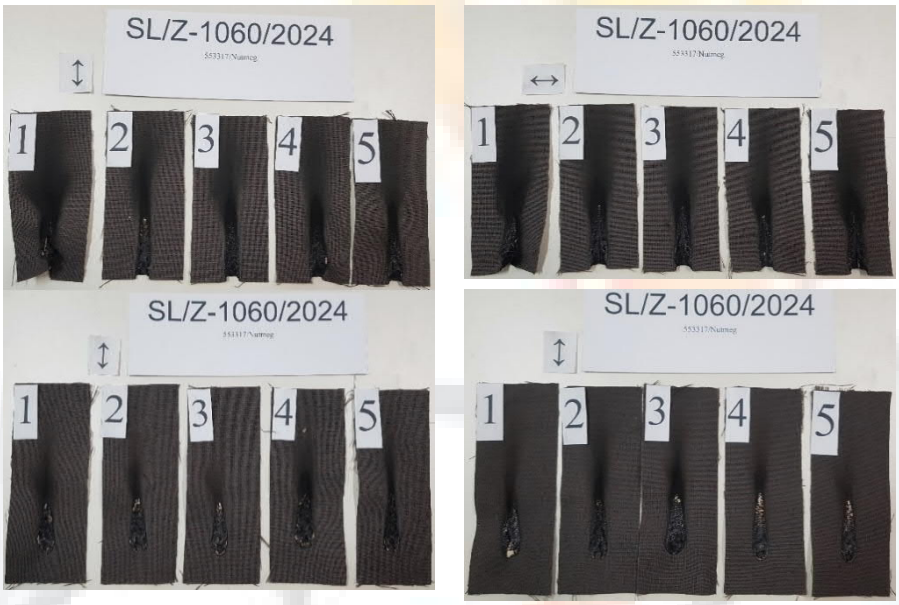
Remarks: none



Sample 1: Batch: 533316, Colour: Lake



Sample 2: Batch: 552136, Colour: Almond



Sample 3: Batch: 553317, Colour: Nutmeg

Fig. 1. Appearance of the samples after the tests

2. Assessment

The determined test results show that the material fulfils the requirements of the building class B2 according to DIN 4102-1:1998-05.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1:1998-05the the burning behaviour in combination with other materials has to be tested separately.

This report does not determine admission to the use of the product, when tested material is used as a construction product within the meaning of terrestrial technical requirements.

In the process of construction supervision test results can be the basis for a preliminary assessment of the compatibility/suitability.

3. Remaining required information



Date of receipt of samples: 20.11.2024

Sampling: **S**ponsor took and delivered samples.

Sample description: sponsor delivered fabric in three colours. Blue fabric with film and white coating on the underside, described as "CEDAR LAKE" with thickness of 0,9-1,0 mm and weight per unit area approx. 510 g/m^2, brown fabric with film and white coating on the underside, described as "CEDAR ALMOND" with thickness of 1,0 mm and weight per unit area 530 g/cm^2, dark brown fabric with film and white coating on the underside, described as "CEDAR NUTMEG" with thickness of 1,0 mm and weight per unit area approx. 560 g/m^2. Sponsor delivered one sample of blue fabric with thickness of 1460x1060-1080 mm, one sample of brown fabric with dimensions of 1460x985-990 mm and dark brown fabric with dimensions of 1460x1080 mm. Laboratory prepared samples for the tests.

Conditioning of specimens: testing after storing 14 days under climatic - temperature of 23±2^{o}C, and relative humidity of 50±5 % (DIN 50014-23/50-2).

Declarations:

1. The test results relate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.
2. The information provided on the first page of the report concerning the scope of research and identification of the tested object/objects were provided by the Sponsor.

Operator:

mgr inż. Katarzyna Krawczak

SYCHTA LABORATORIUM Sp. J.
72-010 Police, ul. Ofiar Stutthofu 90
tel./fax +48 91 4210 214, tel. 502078855
e-mail: biuro@sychta.eu www:sychta.eu
KRS 0000387681 REGON 321023120
NIP 8513152392

Authorised by:

KIEROWNIK TECHNICZNY
dr inż. Krzysztof Sychta

Date and place of test - 05-06.12.2024 , Police