TEST REPORT

Heat Transfer Laboratory
Report No.: 2020.3489-1R1

SABS

Your ref :
Our ref : GRN 4075/2010
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Date : 2011-04-11

Comfizone
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CELLULOSE LOOSE THERMAL INSULATION MATERIAL
TESTING TO SANS 1381-6: 2004

a) CONCLUSION

The sample tested complies with SANS 1381-6:2004.

b) SAMPLE DESCRIPTION

One 14.0 kg bag of cellulose loose fill thermal insulation material without any markings

c) TESTS REQUESTED

Full compliance to SANS 1381-6:2004
Materials for thermal insulation of buildings - Part 6: Cellulose loose fill thermal insulation material, which are included in this report except for tests previously performed in report No. 2020.3239-1.

d) SAMPLE SUBMITTED

The sample was received in a condition suitable for testing.

Sample received date	: 2010-09-22
Test starting date	: 2010-10-04
Test completion date	: 2011-03-01

e) TEST RESULTS

To follow on page 2

e) TEST RESULTS

Clause No.	Description	Results	Requirement	Test Method	C/F
4.1	Materials				
4.1.1	Type	Type I	Type I or II	Visual	C
4.1.2	Composition	Cellulose fibres No extraneous foreign matter	Cellulose (wood-based) fibres & no extraneous foreign matter	Visual	C C
4.2	Thermal resistance, m^2.K/W	Each specimen: 2.548 2.504 2.462 2.504	Each specimen: Declared value: 2.56 m^2.K/W At least 2.30 m^2.K/W Average value for each of the declared thickness: At least 2.43 m^2.K/W	6.3 ISO 8301	C C C C
4.3	Mass of contents, kg	14.0	At least declared value: 13.1	Weighing	C
4.4	Coverage, m^2	3.9	Declared coverage shall not exceeded as determined in 6.4 Declared value: 3.9 m^2	6.4	C
4.5	Flammability Note 1	Did not reach 25 mm	Combustion zone ≤ 25 mm	6.5 BS 5803-4 Section 2	C
4.6	Resistance to smouldering Note 1	Smouldering/ flammability not extended more than 150 mm from the centre line	Smouldering or flaming combustion not extended more than 150 mm from centre line of cylindrical ignition source	6.6 BS 5803-4 Section 3	C
4.7	Moisture absorption, %	13.0	Shall not exceed 15% (m/m)	6.7	C
4.8	Resistance to fungal attack Note 2	No fungal growth	No growth = Growth not exceeding growth on the comparative item	6.8	C
4.9	Corrosion resistance	See paragraph (g)	Only 1 type of test coupon may be perforated No perforation of copper coupon	6.9	n/a
4.10	Settled thickness and settled density: Settle thickness, mm Settle density, kg/m^3	 100 36	 At least as declared: 100mm At least as declared 30-36 kg/m^3	 6.10 6.10	 C C
4.11	Freedom from objectionable odours	No odours	Acceptable, normal use or wetted with clean water	Organoleptic	C

Clause No.	Description	Results	Requirement	Test Method	C/F
5.1	Packing	Packed in plastic bag and protected from damage	Packed in plastic bags or other packages – protected from damage during normal handling, transportation and storage	Visual	C

Clause No.	Description	Results	Requirement	Test Method	C/F
5.2.	Markings				
	a) The manufacturer's name or trademark	Comfizone	The following information shall be given in legible and indelible maring on the bag/ package or on a lable inside, or securely attached to, the bag/package, as applicable	Visual	C
	b) Product identification	Cellulose fibre			C
	c) The batch identification or date of manufacture	Batch No. indicated			C
	d) Mass of contents of bag	13 kg			C
	e) Table – giving minimum thickness and coverage for al standard thermal resistance values. Two tables – if blown and poured applications	Table with thickness and coverage for all standard thermal resistance values included.	Legible through package Minimum A4 size		C
	f) Warning of any health hazard and recommendation to installer to wear eye protection and respiratory mask	Non toxic Non irritant Wear eye protection and respiratory mask			C
	Note: When installing ANY insulation, the installer should take note of the following:				
	a) all loose electrical wires should be lifted and relaid over the surface of the insulation where all possible and where there is sufficient slack in the cabling to allow the cables to be raised	Loose electrical wires lifted and relaid over the installed area			C
	b) all insulation should be kept back at least 75 mm from all electrical apparatus that penetrates the ceiling	All insulation to be installed 75 mm away from all eletrical apparatus that penetrates the ceiling, especially down lighter and hot flues			C
	g) Whether or not the insulation is resistance to smouldering or not	Resistanse to smouldering			C
	h) Instructions for installation or reference to installation manual which is readily available	Instructions to install the product available in installation manual			C

Clause No.	Description	Results	Requirement	Test Method	C/F
5.3	Data sheet a) The manufacturer's name, trade name or trademark	Comfizone	Data given on a data sheet shall be available from the manufacturer.	Visual	C
	b) Product identification	CZ loose fill material			C
	c) Batch number or date of manufacturer	Batch number supplied			C
	d) Mass of content of bag	13.1 kg			C
	e) Settled density and settled thickness, in mm	Settled density: 30 – 36 kg/m^3 Settle thickness: 100 mm			C C
	f) Percentage moisture absorption	0-15%			C
	g) Material supports the growth of fungi or not	Will not support fungal growth			C
	h) Recommendations for transportation and storage	Kept under cover during transportation			C

C denotes Complies
F denotes Fails

f) TEST METHOD

SANS 1381-6: 2004
Materials for thermal insulation of buildings - Part 6: Cellulose loose fill thermal insulation material

g) EXCLUSIONS

4.9 **Corrosion resistance:** No longer tested by any SABS laboratory and will be removed with the next review of this specification.

h) SUBCONTRACTED TESTS

Note 1: Subcontracted to the SABS Fire Engineering department
Note 2: Subcontracted to the SABS Pharmaceutical Microbiology department

i) RETENTION TIME

One year from date of report.

This report supersedes report No. 2020.3489-1R dated 2011-03-02. The report is re-issued as the data sheet information is included in the report.

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