



Test Report

DATE ISSUED: 30 August 2023

ITEM(S) TESTED: Kingspan Kooltherm K3, K5, K7 T and K7, K8 and K12

CLIENT'S NAME: Kingspan Insulation NZ Limited
11 Turin Place
Otara
Auckland 2013
New Zealand

Attention: Haritha Bumanapalli

CLIENT'S REFERENCE: Email

TEST SPECIFICATION: Clause 2.6.3 Building insulation abutting or covering luminaires of AS/NZS 60598.2.2:2001, including Amendment A, in conjunction with AS/NZS 60695.11.5:2005

DATE OF TEST COMPLETION: 29 August 2023

SUMMARY OF RESULTS: The sample building insulations complied with the requirements of the test specification for a 30 s needle flame test and a 90 °C thermal test, for use with IC-F, IC and CA 80 recessed luminaires.



All tests reported herein have been performed in accordance with the Laboratory's scope of accreditation, Accreditation Number: 42

Approved Signatory: G I Dix



Checked By: K Manson



PowerLab Limited, PO Box 31034 Christchurch 8444 New Zealand, 5 Sheffield Crescent Christchurch New Zealand, Info@powerlab.co.nz. This Report must not be quoted except in full

Test item description :	
Manufacturer, Supplier	Kingspan
Model/Type reference..... :	This Report includes the following models: Kooltherm K3, K5, K7 T 70mm and 25 mm thickness Kooltherm K7, K8, K12 80 mm and 25 mm thickness
Ratings..... :	Building insulations are for use with IC-F, IC and CA 80 recessed luminaires.

Test item particulars :	
Classification of installation and use	Recessed luminaire
Supply Connection	NA
Possible test case verdicts:	
- test case does not apply to the test object..... :	NA (Not Applicable)
- test case not applied to the test object..... :	NAS (Not Assessed)
- test object does meet the requirement..... :	C (Complies)
- test object does not meet the requirement	DNC (Does Not Complies)
- content of clause of test specification noted.....	N (Noted)
General remarks:	
<p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. The test results presented in this report relate only to the item(s) and/or (samples) tested.</p> <p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see Annex #)" refers to an annex appended to the report.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p> <p>Clause numbers between (brackets) refer to clauses in IEC 60598-1 modified.</p> <p>Clause numbers between [brackets] refer to clauses in IEC 60598-2-2 modified.</p> <p>In general, the most unfavourable results are provided.</p>	
General product information:	
<p>Building insulation with facing materials</p> <p>Refer to enclosure of pictures.</p>	

IEC 60598-2-2			
Cl.	Requirement – Test	Result	Verdict

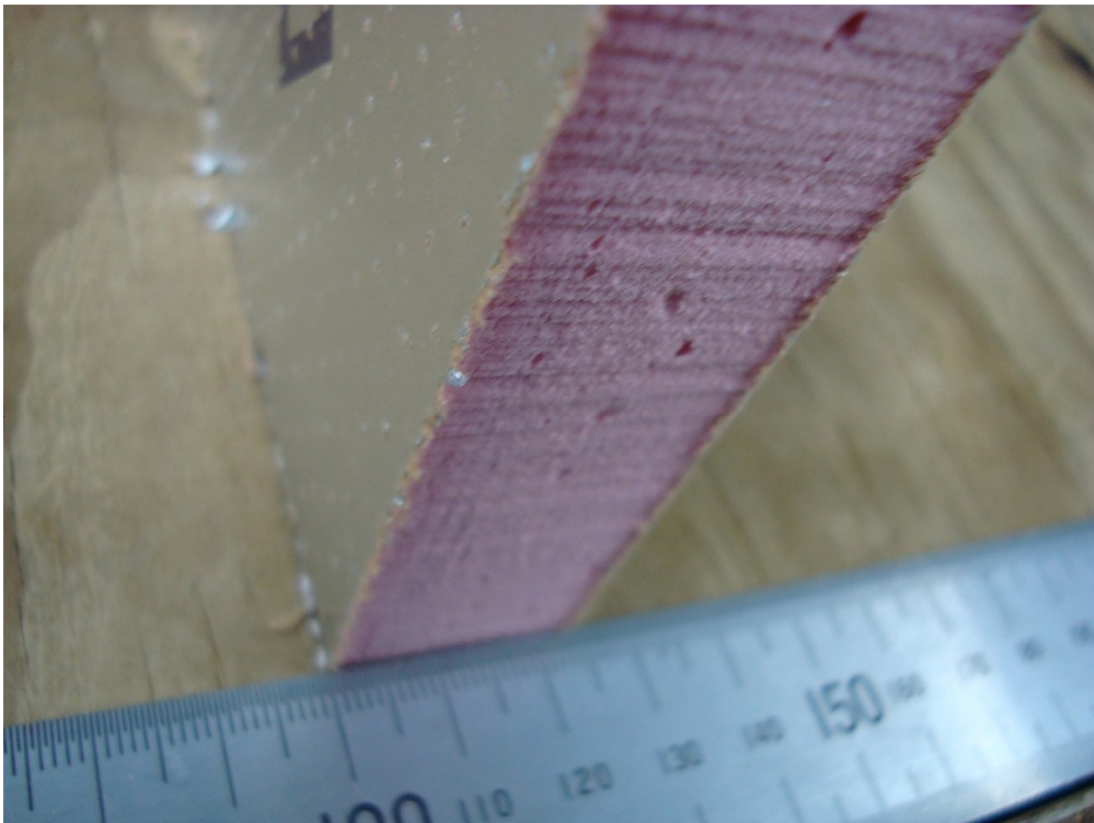
2.1 (0)	SCOPE		
2.1 (0.1)	Scope and object		N

[2.6.3]	Building insulation abutting or covering luminaires	For IC-F, IC and CA 80 recessed luminaires	C
	a) Maintain dimensions and structural integrity	Maintained at 90 °C	C
	b) Withstand 30 s needle flame test	Flames and/or glowing of the test samples extinguished within 1 s after the removal of the needle-flame.	C

Pictures



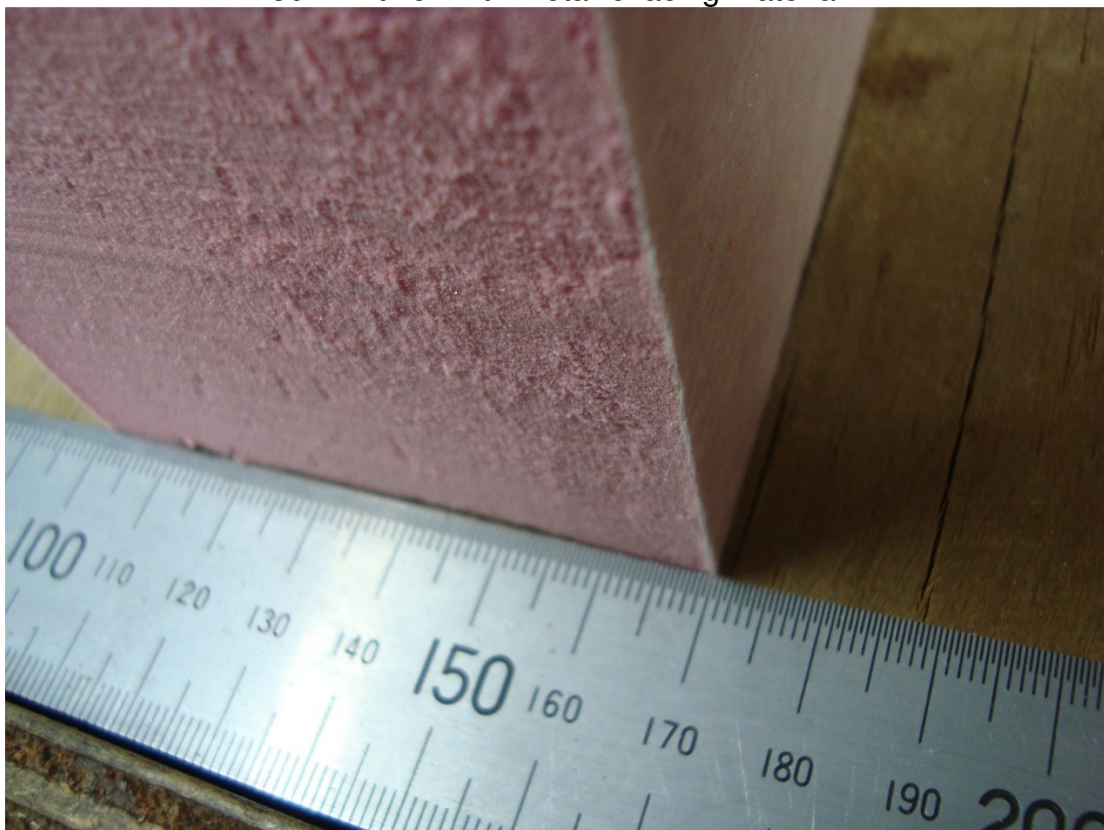
24 mm thick with non-metallic facing material



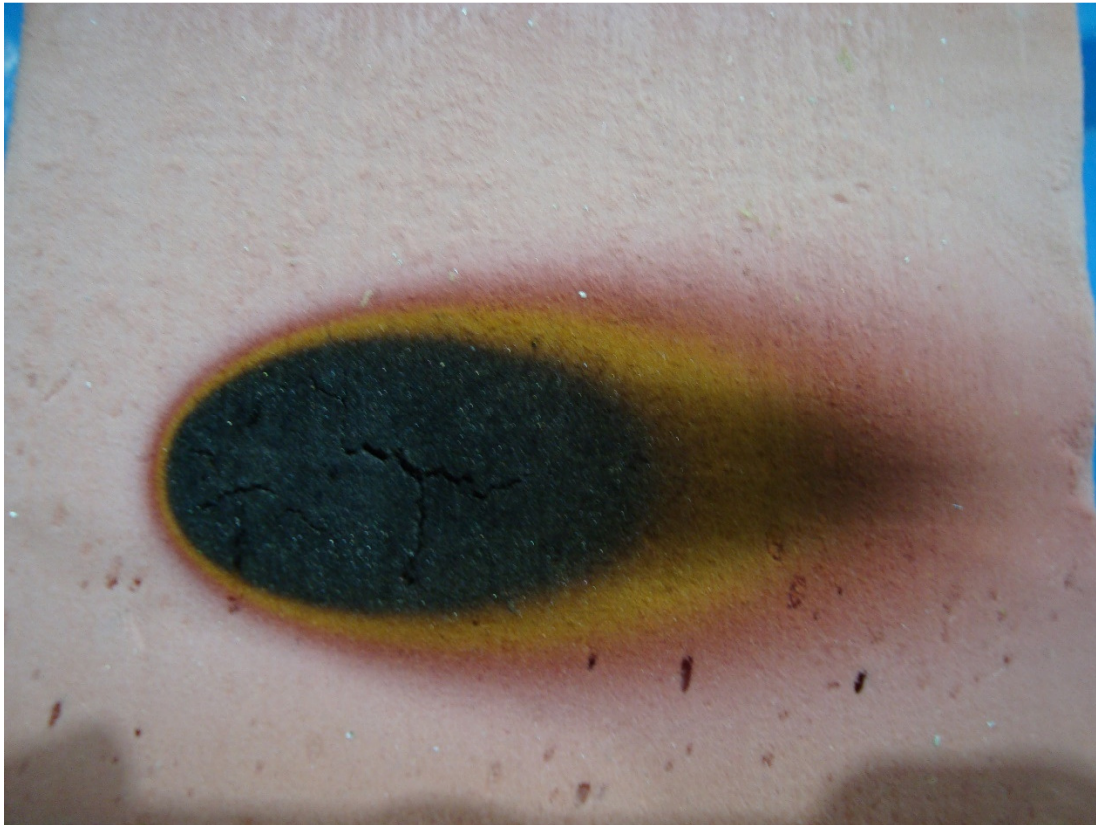
24 mm thick with metallic facing material



80 mm thick with metallic facing material



70 mm thick with non-metallic facing material



Charing of insulation material due needle to flame



Discoloration of metallic facing material due to needle flame



Charing of non-metallic facing material due to needle flame