INFRASTRUCTURE TECHNOLOGIES
www.csiro.au

Private bag 10, Clayton South,
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T (03) 9545 2222 • **ABN** 41 687 119 230

Certificate of Assessment

CSIRO have examined information submitted to CSIRO by the Carpet Institute of Australia. CSIRO has evaluated this evidence of compliance for wool and some wool/nylon carpets , in Class 2 to 9 buildings with NCC fire hazard property requirements for floor linings, without further fire testing to AS ISO 9239, Part 1:2003 , on behalf of:

Carpet Institute of Australia Limited (CIAL)
Level 1.05, 493 St. Kilda Road, Melbourne Vic 3004

CSIRO Report FE3026 -RPT-01 (RevB) describes an assessment conducted to evaluate the evidence for compliance of the carpets with the NCC requirements. A statistical analysis was performed based on summary AS ISO 9239.1 test data on 414 different carpet products, collated and supplied to CSIRO by CIAL. Summary test data is stated to have been sourced from NATA or ILAC accredited test laboratories.

PRODUCT NAME & DESCRIPTION: 100% wool and wool/nylon blend carpet with not less than 80% wool of Total Pile Mass (TPM) no less than 650g/m2; and limited to particular construction types and underlay combinations and manufacturers as described in the CSIRO report.

CONCLUSION: There is sufficient evidence for a determination of compliance in terms of the 'Critical Radiant Flux' (CRF) and Maximum 'Smoke Development Rate' (SDR) of certain wool rich carpets with NCC 2022 Clause C2D11 and Specification 7 fire hazard property requirements for floor linings without further testing. The conclusion applies only to carpet which meets all of the following requirements:

- 100% wool and wool/nylon blend carpet with not less than 80% wool; and
- combinations of installation method, underlay and total pile mass (TPM) ranges as stated in tables on page 2 of this certificate; and.
- Only valid for carpet products manufactured Brintons, Feltex Carpets, Godfrey Hirst Australia, Quest Carpets, Tuftmaster Carpets, Victoria Carpets, Cavalier Bremworth, EC carpets, Prestige Carpets, Above Left, Rugs Carpets and Designs; Signature Floor Coverings, Chaparral Carpet Mills and Supertuft; and
- All other limitations and product descriptions as detailed in CSIRO assessment report FE3026 -RPT-01(Rev B).

The assessment does not apply to:

- carpet of pile material other than wool/nylon
- carpet tiles
- PVC backed carpet
- carpet laid over FR Rubber, SBR Rubber underlay or Synthetic Pad or other types not listed in the table below.

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Table 1 - Summary of carpet types and TPM achieving Critical Radiant Flux (top table) and SDR (bottom table) with probability 99.9% and hence which can be considered to conform without further testing. Valid for 100% Wool carpets and Wool/Nylon blend carpets with a wool content not less than 80% wool and with a Total Pile Mass in the range 650g/m^2 to 2882g/m^2.

Installation Method	Underlay	TPM (g/m^2)	
		CRF (kW/m^2) >2.2	CRF (kW/m^2) >4.5
Direct Stick	Nil	≥650	≥1290
Conventional	Nil	≥1330	≥2830
	SBR Latex	≥1270	≥2780
	Felt	≥1200	≥2710
	Rubber	≥1000	≥2510
	Reconstituted Textile	≥1110	≥2610
	Rebond Foam	≥1630	NA
Double Bond	SBR Latex	≥650	≥1870
	Reconstituted Textile		≥1800
	Rebond Foam	≥850	≥2340
	Crumb Rubber	≥920	≥2430

Underlay	TPM satisfying the Smoke Development rate (SDR) <750 %.min
Rebond Foam	TPM ≥1020 g/m^2
Rubber	TPM ≥820 g/m^2
Nil	TPM ≥650 g/m^2
Reconstituted Textile	TPM ≥1330 g/m^2
SBR Latex	TPM ≥1030 g/m^2
Felt	TPM ≥1400 g/m^2
Crumb Rubber	TPM ≥1850 g/m^2

Issued on 1st May 2023. This Certificate will expire on 1st May 2028. This certificate is issued in conjunction with CSIRO report FE3026 -RPT-01(Rev B) and must not be used separately to that report. This certificate supersedes the previous version of this certificate.

Alex Webb Group Leader, Fire Safety Engineer

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