

Emission Test Certificate

Monday, January 29th, 2018

Supplier: Terra Lana Products Limited (55 Francella St., Bromley, Christchurch, 8062, New Zealand)

Sample Description: Terra Lana Wool-Blend Insulation

Date Tested: January 2018 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: ASTM D5116 “Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products”.

Emission Data:

Declare & Global GreenTag Standard	Terra Lana Wool-Blend Insulation
Total Volatile Organic Compound Emission Rate limit: $\leq 0.5 \text{ mg/m}^3$	Total Volatile Organic Compound Emission Rate: 0.063 mg/m^3
Total Aldehydes Emission limit $\leq 0.100 \text{ ppm}$	Total Aldehydes Emission: 0.032 ppm
Individual VOC's as TO-17 method: < 0.1 the Threshold Limit Value (TLV).	Individual VOC's: < 0.01 the Threshold Limit Value (TLV) industrial work place criterion

* The stated result was calculated from an emission rate applied to the Greenguard Standard Office Model using 48m^2 exposed ceiling and wall area, room volume of 32m^3 , ventilation rate of 0.72 hr^{-1} .



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