



# FLOC

ROLL  
ACOUSTIC TREATMENT

## THE BENEFITS OF WOOL

- The unique beneficial properties of wool have never been synthetically reproduced
- Research by AgResearch has revealed that wool absorbs harmful air pollutants (such as formaldehyde, sulfur dioxide and nitrogen oxides) and does not re-emit them. It has been estimated that wool which is used in interiors can help purify the air for up to 30 years.
- Floc is hypoallergenic - it is resistant to bacteria, mould and mildew that can trigger allergic reactions. It has microscopic pores that respond effectively to changes in humidity preventing microorganisms from growing and breeding.
- A by-product of ethical farming practices in New Zealand ensures the supply of quality strong-wool.
- Using Floc is a renewable, biodegradable and natural choice which provides naturally air filtering, heat and moisture regulating properties.
- Extensive research has gone into developing a product that meets fire regulations for interior linings. The solution gives a Group 1-S (according to ISO 5660 Part 1) performance and doesn't use nasty chemicals. The product is Red List free and can be buried at end of life.

V 2.0 12/23



<b>Sound absorption</b>	<b>Thickness</b>	<b>HZ</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	$\alpha_w$	<b>NRC</b>
	6 - 8 mm	ap	0.10	0.10	0.25	0.45	0.70	0.65	0.30	0.40

\*Tested to AS/ISO 354: 2006 Acoustics-Measurement of sound absorption in a reverberation room

<b>Fire Test</b>	<b>Thickness</b>	<b>Class</b>
	6 - 8 mm	Group 1-S

Fire treatment is a natural product, however dust maybe present when product is handled

\*Tested to ISO 5660.1-2015 Reaction to fire tests – Heat release smoke production and mass loss rate part 1 (cone calorimeter).

<b>Sizes</b>	<b>Thickness</b>	<b>Roll size</b>
	6 - 8 mm	1.2 x 25 m roll 1.2 x 12.5 m roll (half roll) <i>Tolerance +/- 5 mm on width</i>

<b>Ex stock colours</b>							
	Natural	Ivory	Sage	Stone	Storm	Shadow	Ebony

Due to the natural makeup of Floc, organic matter may be present. Please be aware that colour variation may occur being a natural product

<b>Weight</b>	1.4 kg/m <sup>2</sup>
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<b>Colour fastness to artificial light (highest = 7)</b>	<b>Colour</b>	<b>Rating</b>
	Natural	5-6
	Ivory	5-6
	Sage	6
	Stone	6
	Storm	6
	Shadow	5-6

\*Tested to AS 2001.4.B02-2001 (ISO 105 B02: 1994) standard test method

<b>Colour fastness to rubbing (highest = 5)</b>	<b>Test</b>	<b>Rating</b>
	Dry	4-5
	Wet	4

\*Tested to AS 2001.4.3-1995 standard test method

<b>Thermal resistance</b>	0.2m <sup>2</sup> K/W (calculated)
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**Sustainability**  
 Floc harnesses the sustainable nature of wool, enhancing its performance for the built environment. At end of life, it can be returned to the earth as the product is full compostable.  
 Made from 100% New Zealand born, grown and processed strong-wool, utilising the by-product of shearing to create a sustainable acoustic wall lining



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**VOC** Total volatile organic compound 0.0109 mg/m2 .h

\*Tested to: ASTM D5116-2017 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products. Test report number 1435590.3

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**Warranty** 30 Year product warranty when installed in accordance with NZ1170.5

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**NZ Building Code** Exceeds clause B2 - durability, 5 years

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\*Test reports available upon request

