

# THE SOUND DECISION

## GLASSWOOL

VERSUS

## POLYESTER

**EARTHWOOL GLASSWOOL**  
*the feel good glasswool insulation*

Made from renewable and abundant resources, such as recycled glass and sand



More product per pack, less transport = less deliveries to site and less space required on site

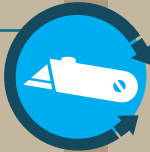


1 pack of Earthwool® glasswool, 11kg/m<sup>3</sup>, 50x600mm = **32.40m<sup>2</sup>**

Highly cost-effective



Easy to cut in all directions



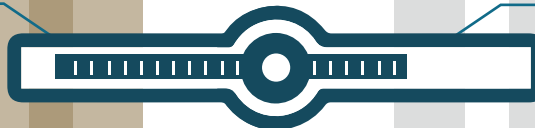
No added artificial colours or dyes: natural brown colour



Cannot catch fire. In service performance: 300°C



Melting point 704°C



Smoke development index: 0-1



GreenTag GreenRate level A: Full material points for Greenstar or Homestar projects



Typically includes a high percentage of non-renewable petro-chemical raw materials



Less product per pack, more transport = more deliveries to site. Polyester products can take up over 3 times the space  
1 pack of ASB6 70x600 = **13.3m<sup>2</sup>**



Not cost-effective adding unnecessary cost to commercial projects



Difficult to cut in more than one direction and can increase installation time and cost



Some brands are dyed various colours



No inherent fire performance. In service performance: 160°C



Melting point 250°C

Smoke development index: 3



Not all polyester partition products have either GreenTag Level A or Environmental Choice certification as required by Greenstar & Homestar for material points



# ACOUSTIC INSULATION FOR PARTITION WALLS

## SIMPLE INSTALLATION

Earthwool® glasswool: Acoustic segment, 11kg/m<sup>3</sup> is 2.7metres long, that is 1.15metres longer than some standard segments. It can be directly installed into steel framing, saving valuable installation time on site.

## SUPER-SOFT AND SAFE

Earthwool® glasswool is made using state-of-the-art German fiberisation technology, making it super-soft and easier to handle. It's made using recycled glass and with ECOSE® Technology, a revolutionary binder technology that does not contain added formaldehyde. The product is also non-combustible.

## MORE BANG FOR YOUR BUCK

Earthwool® glasswool comes in compression packaging, meaning there's more product per pack and less transport and storage. Just one single pack of Earthwool® glasswool: Acoustic segment, 11kg/m<sup>3</sup>, 50mm, will cover an area of 32.4m<sup>2</sup>. Now that's a saving!

## BETTER ACOUSTIC PERFORMANCE

In typical steel stud installation with 13mm plasterboard on both sides, the STC rating for Earthwool® glasswool: Acoustic segment 11kg/m<sup>3</sup> outperforms the same or thicker polyester.

For timber framing, mid-floor and all other acoustic applications please refer to our product guide available on our website. For specific STC ratings and comparisons for your project contact your Knauf Insulation representative.



Product Code	529446	429447
Density (kg/m <sup>3</sup> )	11	11
R-Value (m <sup>2</sup> K/W)	1.3	1.9
Thickness (mm)	50	75
Width (mm)	600	600
Length (mm)	2700	2700
Pieces Per Pack	20	14
Area Per Pack (m <sup>2</sup> )	32.4	22.6
Packs per MasterBag	4	4
Packs per Supakube	16	16

## SYSTEM COMPARISON AND ACOUSTIC PERFORMANCE

Insulation	Acoustic performance	
	64mm steel stud	92mm steel stud
Earthwool® glasswool: Acoustic insulation, 11kg/m <sup>3</sup> , 50mm	STC 46	STC 50
Earthwool® glasswool: Acoustic insulation, 11kg/m <sup>3</sup> , 75mm	-	STC 50
Polyester 60mm, 750gsm acoustic blanket	STC 44	-
Polyester 90mm, 900gsm acoustic blanket	-	STC 48
Polyester ASB5 or ASB6 70mm	STC 44	STC 47

Wall lining: 13mm acoustic plasterboard on both sides  
Frame: steel stud, 600mm centres

Insul, Sound Insulation Prediction (v8.0.9, Marshall Day Acoustics 2015).

To find out more visit [www.knaufinsulation.co.nz](http://www.knaufinsulation.co.nz)