

# SOUNDPROOFING RESIDENTIAL SCREED AND TILED FLOORS

Quality of life thanks  
to REGUPOL impact  
sound insulation and  
vibration isolation



# EXPERIENCE THE FUSION OF **ELEGANCE & TRANQUILITY** WITH REGUPOL ACOUSTIC SOLUTIONS

Choosing natural stone and tiled floors is the perfect fusion of durability and style for modern apartment living. Within the confines of apartment living, the significance of acoustic underlay is paramount. Far from being a mere add-on, it serves as an essential element that fosters peaceful coexistence among residents.

This foundational layer mitigates impact sound noise, making it indispensable for maintaining tranquility in multi-story dwellings. Selecting the right acoustic underlay is a matter of careful evaluation of its composition and quality, both of which are vital for its noise reduction capabilities.

# KEY TOPICS AT A GLANCE



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# SOUNDPROOFING **DIRECT FIX TILES**



# REGUPOL SONUS MULTI 4.5

Suitable for green buildings, **REGUPOL sonus multi 4.5** is a sustainable product made from pre-consumer polyurethane foam and cork elastomer bound with polyurethane.

This environmentally preferable product has been independently certified as meeting the requirements of Good Environmental Choice Australia GECA 25-2011 v2.0i - Floor Coverings Standard. See [www.geca.eco](http://www.geca.eco)

**REGUPOL sonus multi 4.5** is an acoustic underlay developed for its unique material composition which allows it to be a compatible surface to bond approved floor coverings such as carpet tiles, ceramic tiles, stone, marble, laminate, engineered timber and more.

All applications should be checked for suitability with the selected floor finish, waterproof membranes, **REGUPOL** adhesives, tile adhesives, grouts etc.



## Available in:

Rolls	1m x 20m
Modular Tiles	1050mm x 500mm
Thickness	4.5mm

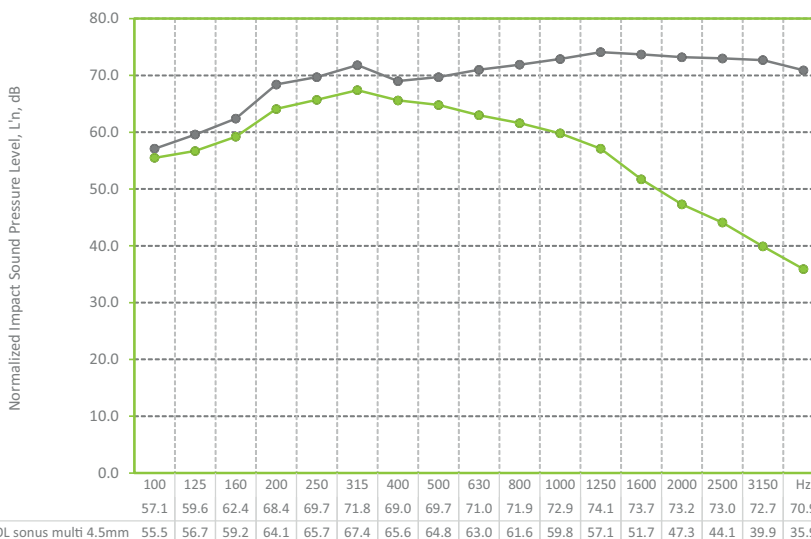
## ACOUSTICAL PERFORMANCE

### DIRECT TILE Normalized Impact Sound Pressure Levels

Tested at CSIRO Highett, in accordance with ISO 140-8: 1997 (E), ISO 140-6, AS ISO 717.2-2004, ASTM E989-89. Test area 11.7m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded

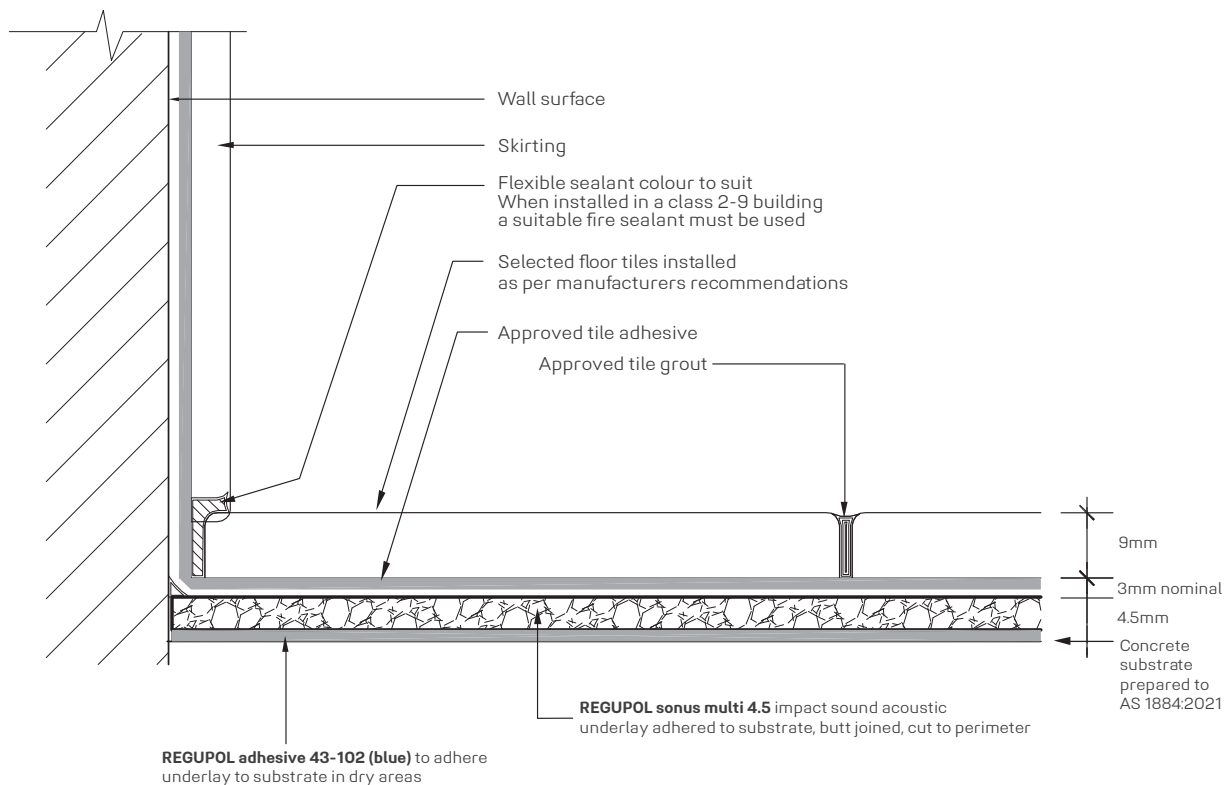
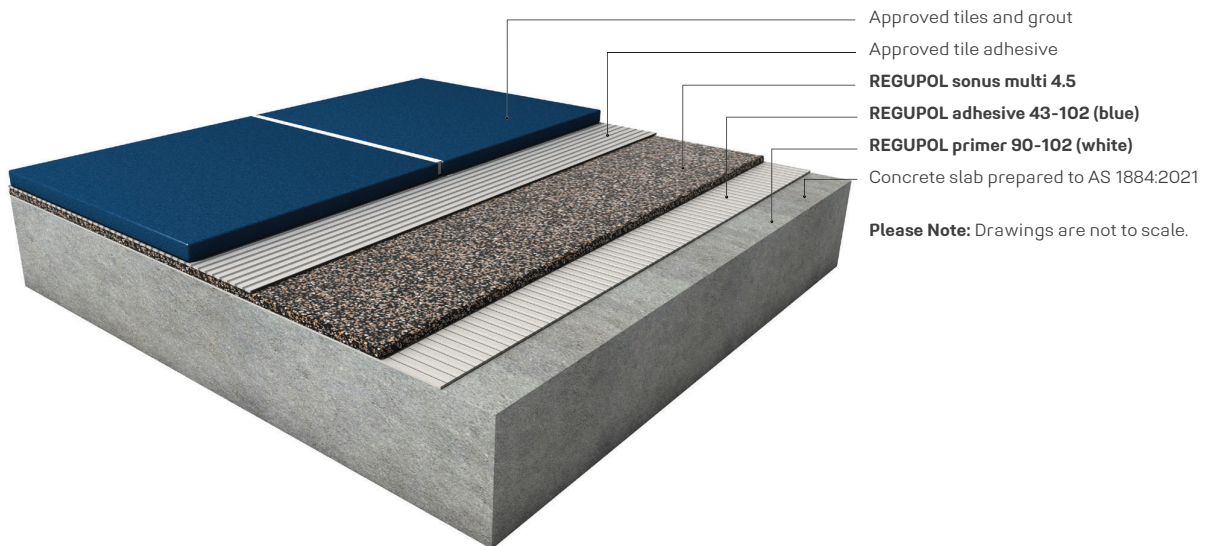
### REPORT RG019

Layer of 10mm Porcelain Tile, bonded to **REGUPOL sonus multi 4.5mm**, bonded to 150mm Concrete Slab (no ceiling).



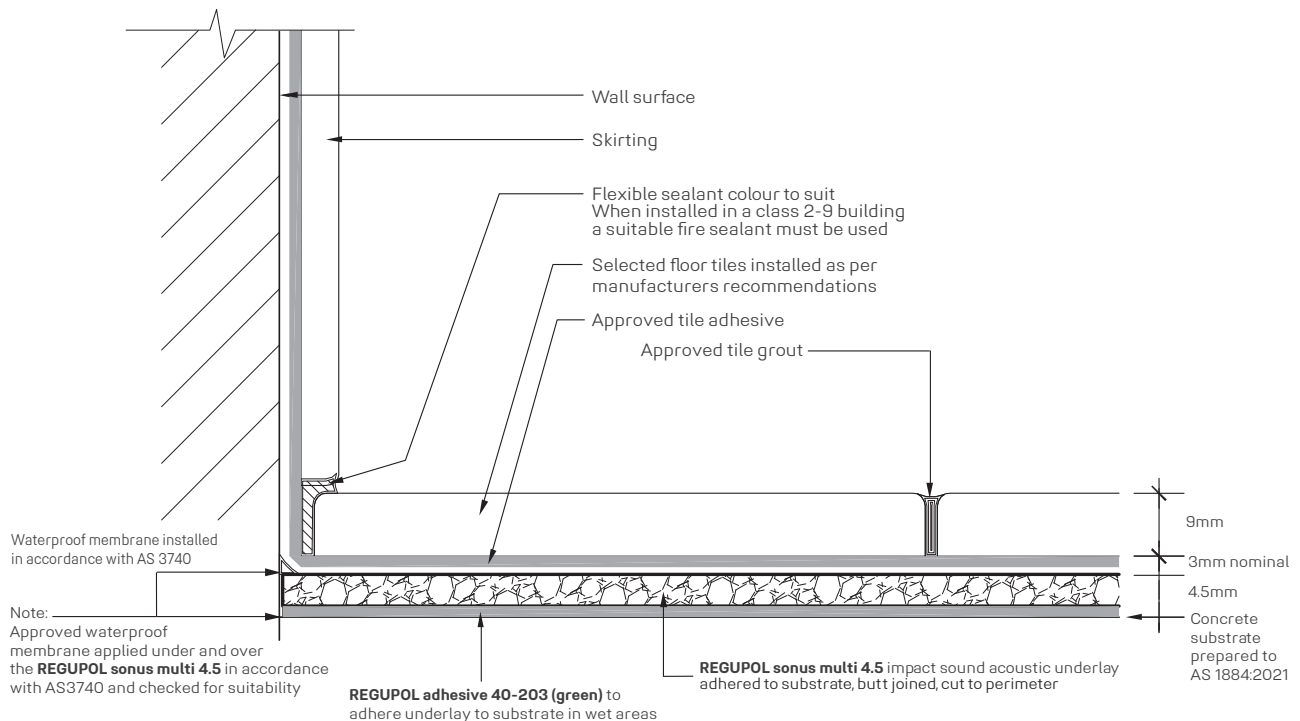
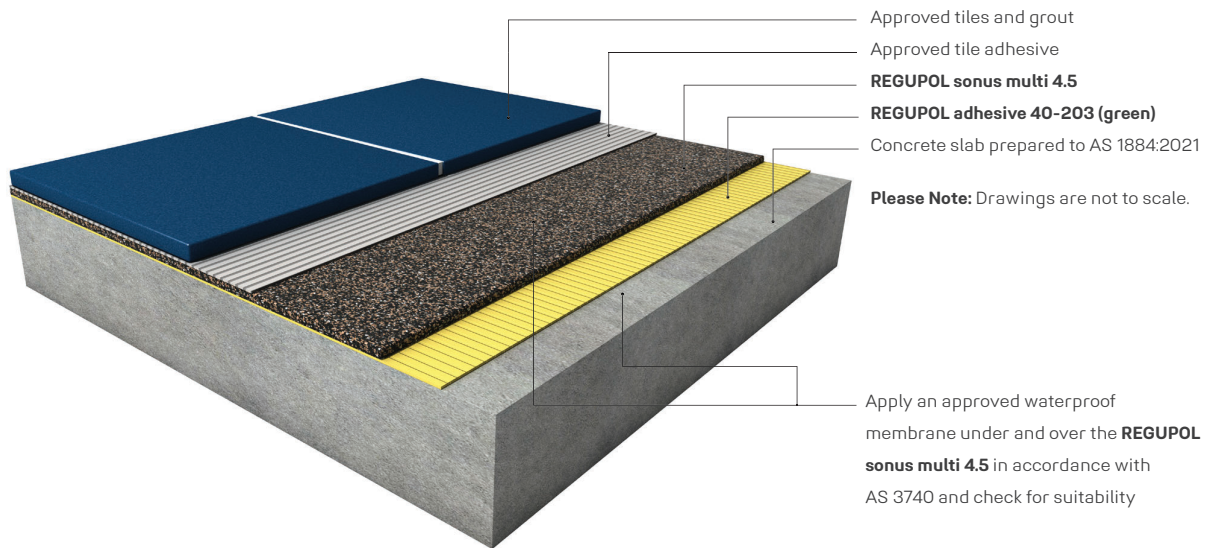
# DRY AREA TILED FLOOR

This **REGUPOL sonus multi 4.5** system reflects a typical residential application with approved tiled floor coverings. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# WET AREA TILED FLOOR

This **REGUPOL sonus multi 4.5** system reflects a typical residential application with approved tiled floor coverings. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# SOUNDPROOFING **SCREEDED TILE FLOORS**



# REGUPOL SONUS MULTI 4.5

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**Available in:**

- Rolls 1m x 20lm
- Modular Tiles 1050mm x 500mm
- Thickness 4.5mm

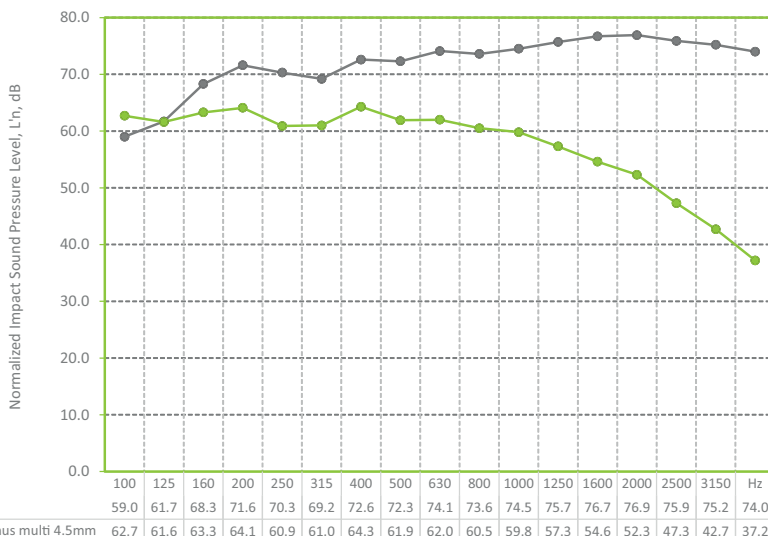
## ACOUSTICAL PERFORMANCE

### TILE WITH SCREED Normalized Impact Sound Pressure Levels

Tested at CSIRO Hightett, in accordance with ISO 140-8: 1997 (E), ISO 140-6, AS ISO 717.2-2004, ASTM E989-89. Test area 10.8m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded.

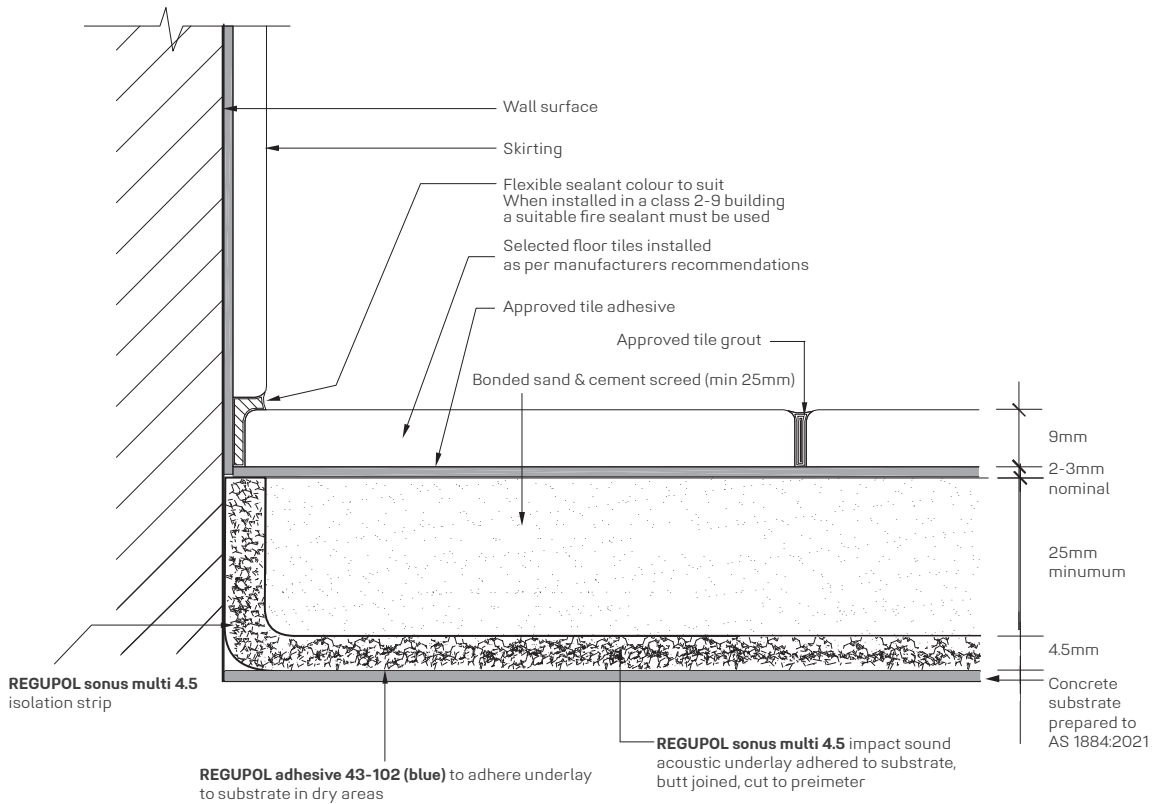
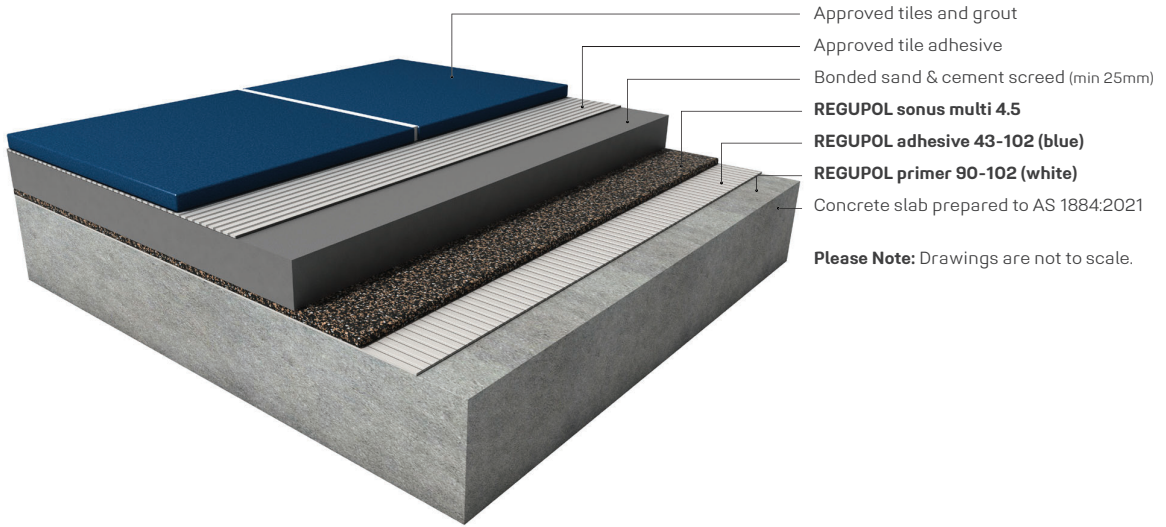
### REPORT RG094

Layer of 8mm Ceramic Tile bonded to 30mm Screed Bed, to **REGUPOL sonus multi 4.5mm**, to 150mm Concrete Slab (no ceiling).



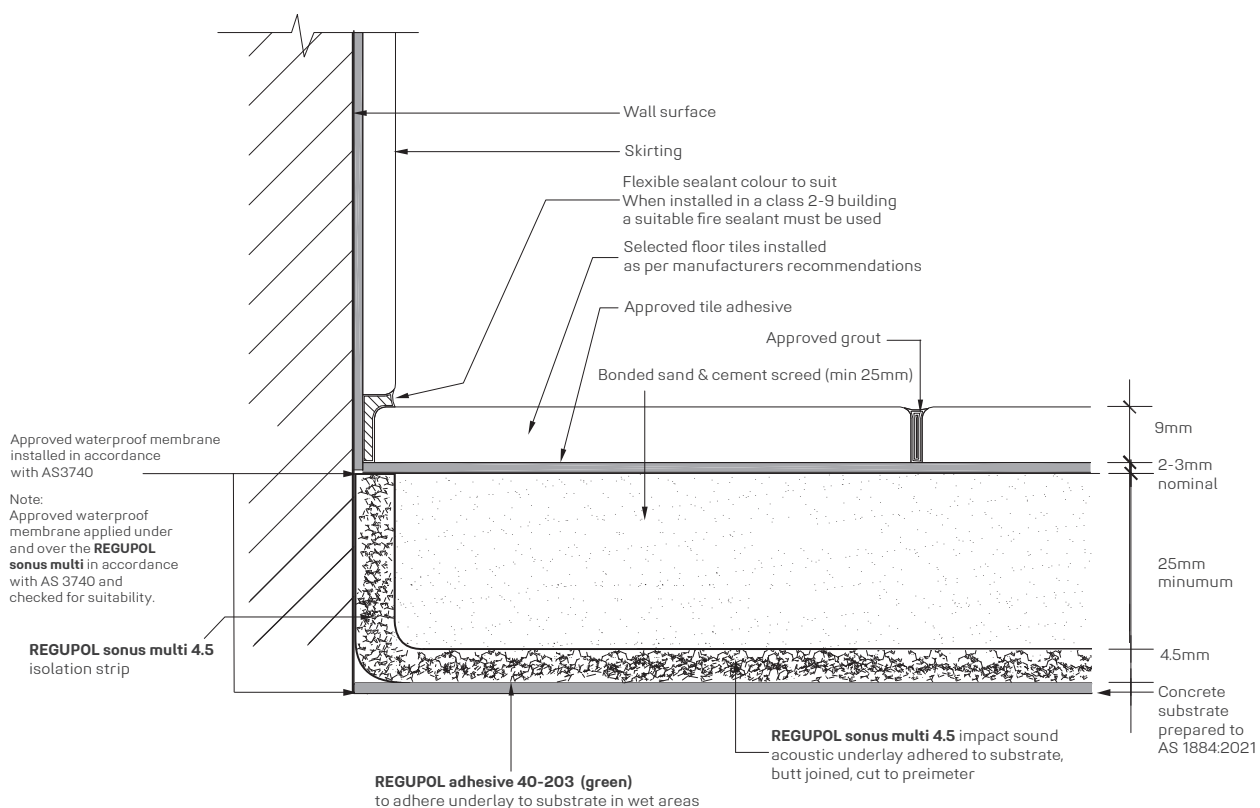
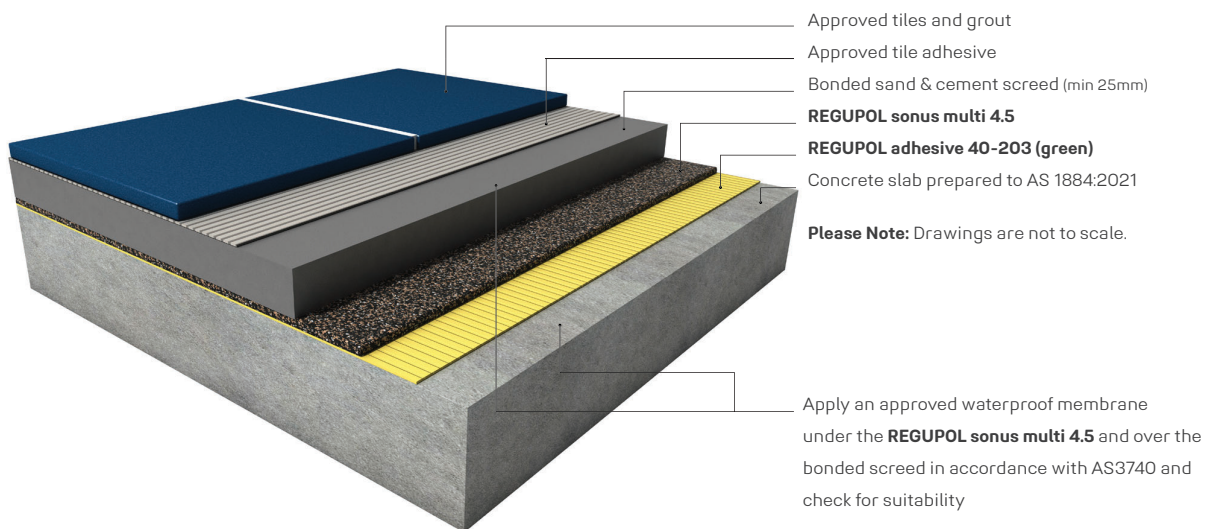
# DRY AREA BONDED SCREED & TILE

This **REGUPOL sonus multi 4.5** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.

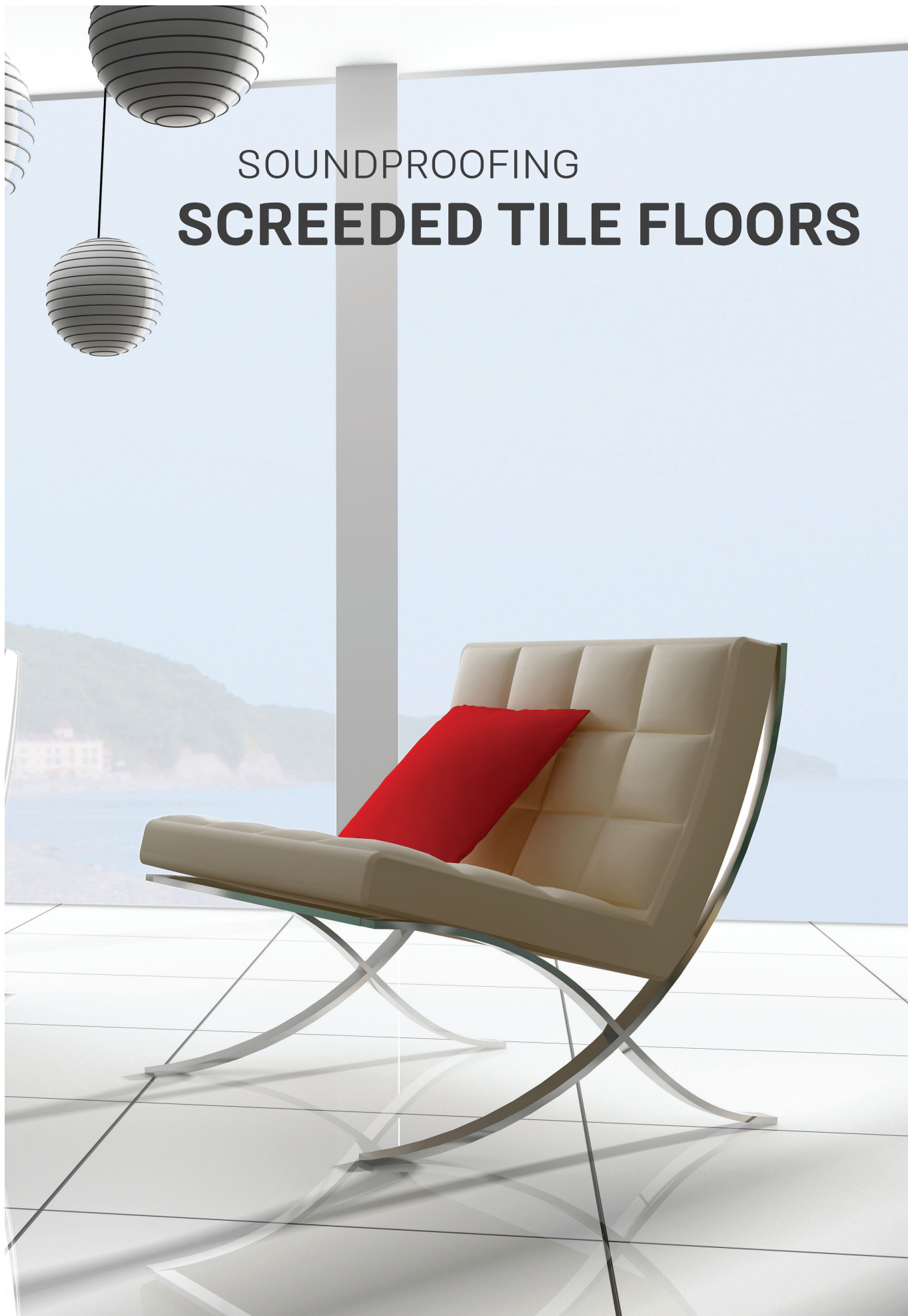


# WET AREA BONDED SCREED & TILE

This **REGUPOL sonus multi 4.5** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



SOUNDPROOFING  
**SCREEDED TILE FLOORS**



# REGUPOL SONUS CORE 5

**REGUPOL sonus core 5** is a high performance acoustic underlay, designed to reduce the transmission of impact sound generated by footfall noise.

Suitable for green buildings, the **REGUPOL sonus core 5** is a sustainable product made from post-consumer end of life tyre bound with polyurethane.

This environmentally preferable product has been independently certified as meeting the requirements of Good Environmental Choice Australia GECA 25-2011 v2.0i - Floor Coverings Standard. See [www.geca.eco](http://www.geca.eco)

**REGUPOL sonus core 5** can be installed under bonded and unbonded screed beds, laminate and engineered timber floors. All applications should be checked for suitability with the selected floor finish, waterproof membranes, **REGUPOL** adhesives, tile adhesives, grouts etc.



**Available in:**  
 Rolls 1.25m x 10lm, 50lm  
 Thickness 5mm

## ACOUSTICAL PERFORMANCE

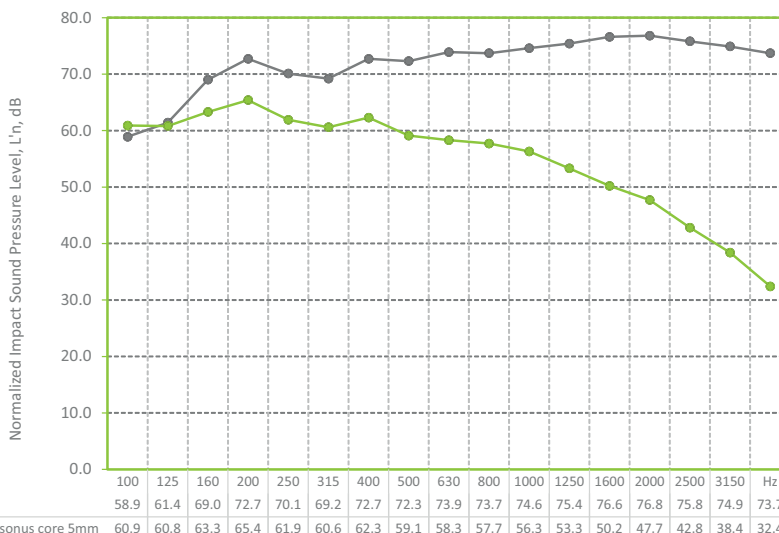
### TILE WITH SCREED Normalized Impact Sound Pressure Levels

Tested at CSIRO Clayton, in accordance with ISO 140-8: 2006 (E), ISO 140-6-2006, AS ISO 717.2-2004, ASTM E989-89. Test area 10.8m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded.

### REPORT RG092

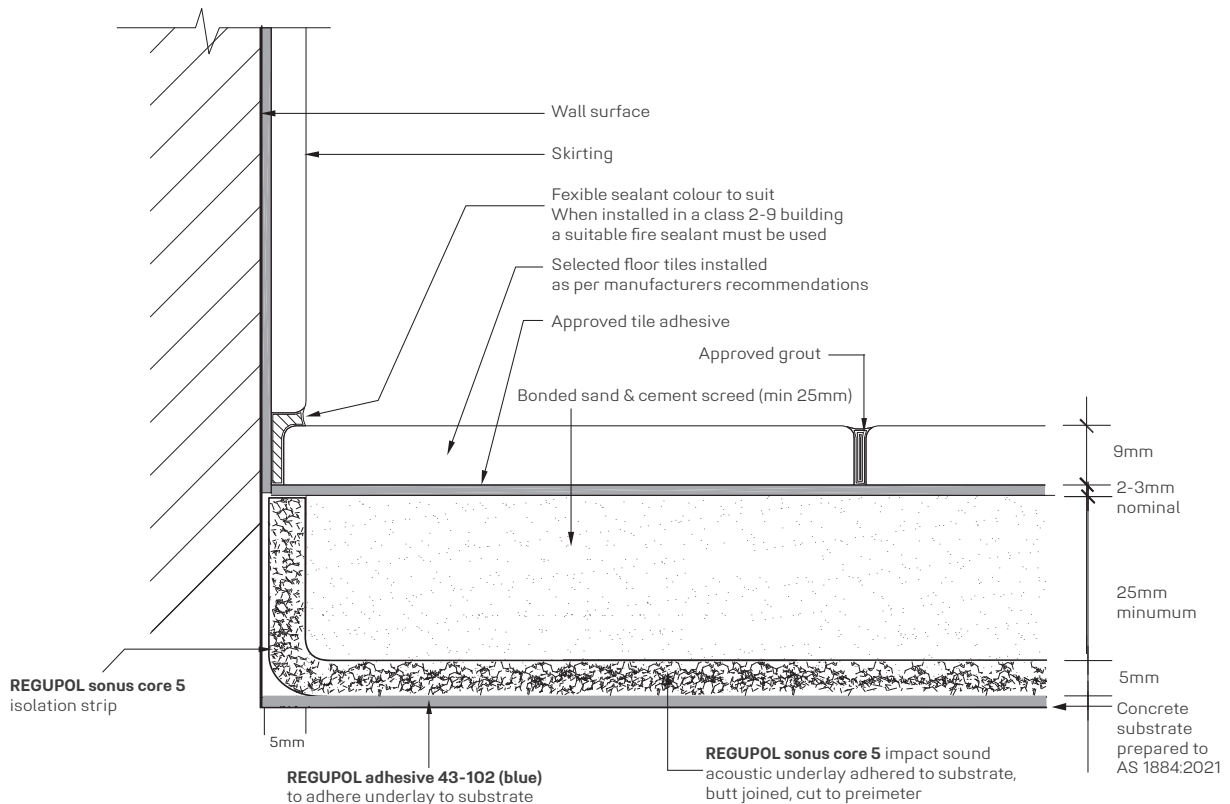
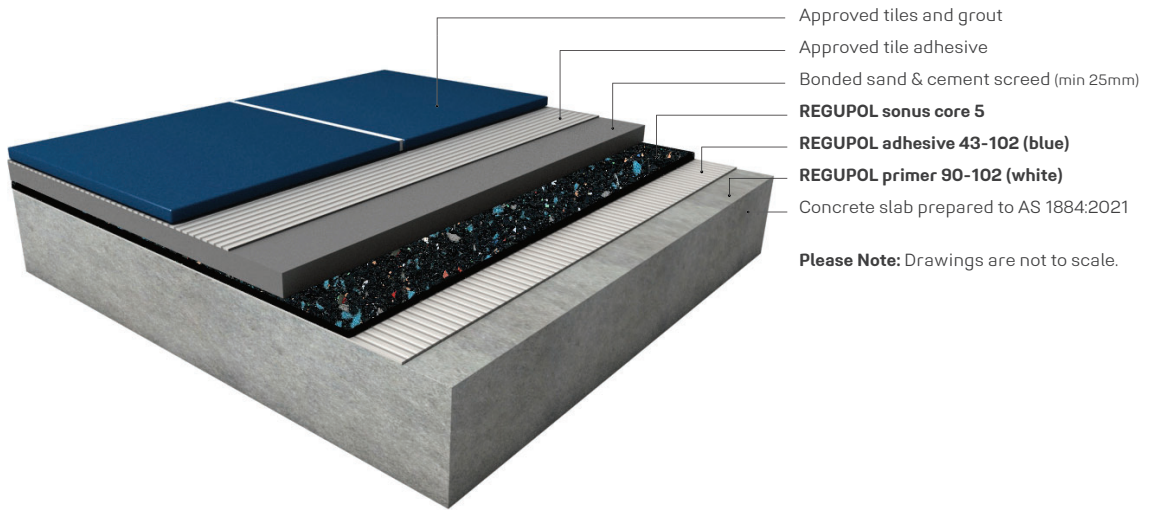
Layer of 8mm Ceramic Tile bonded to 30mm Screed Bed, to **REGUPOL sonus core 5mm**, to 150mm Concrete Slab (no ceiling).

$L_{n,w}$  58dB  
 $\Delta L_w$  21dB  
 52 IIC



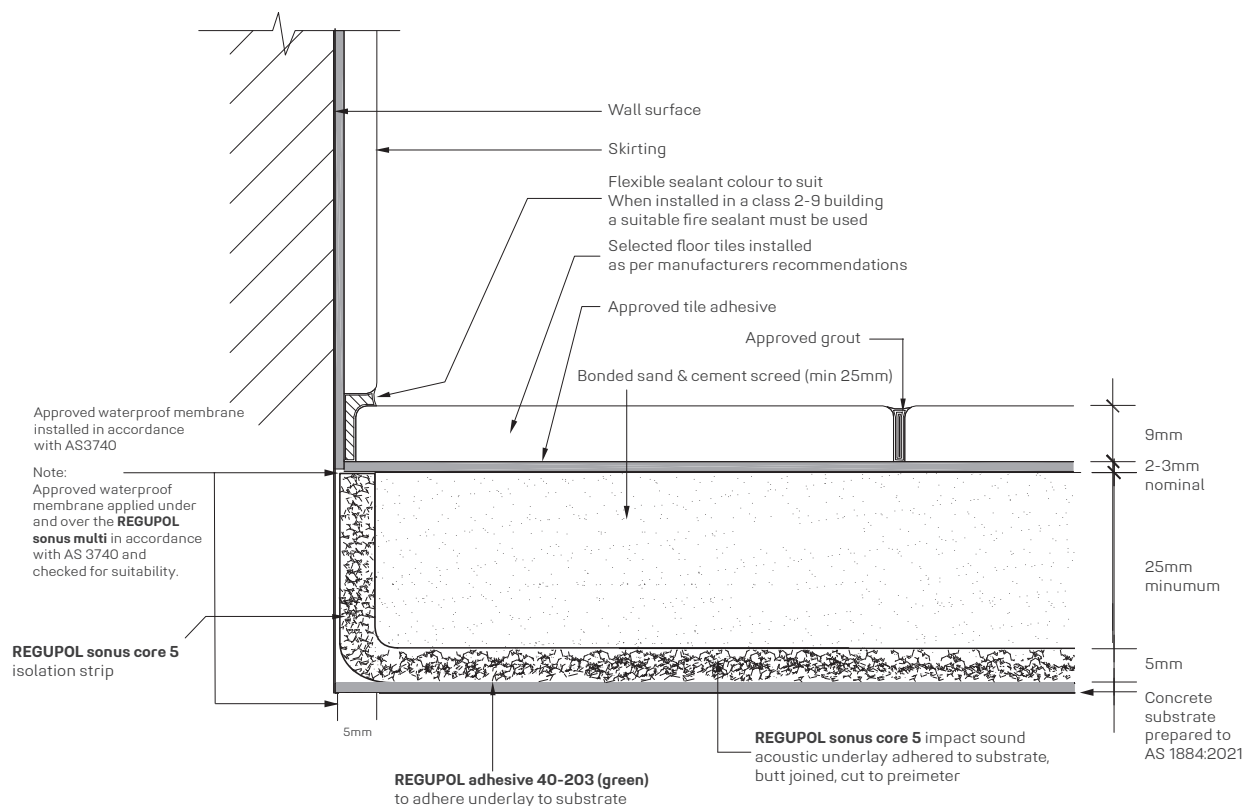
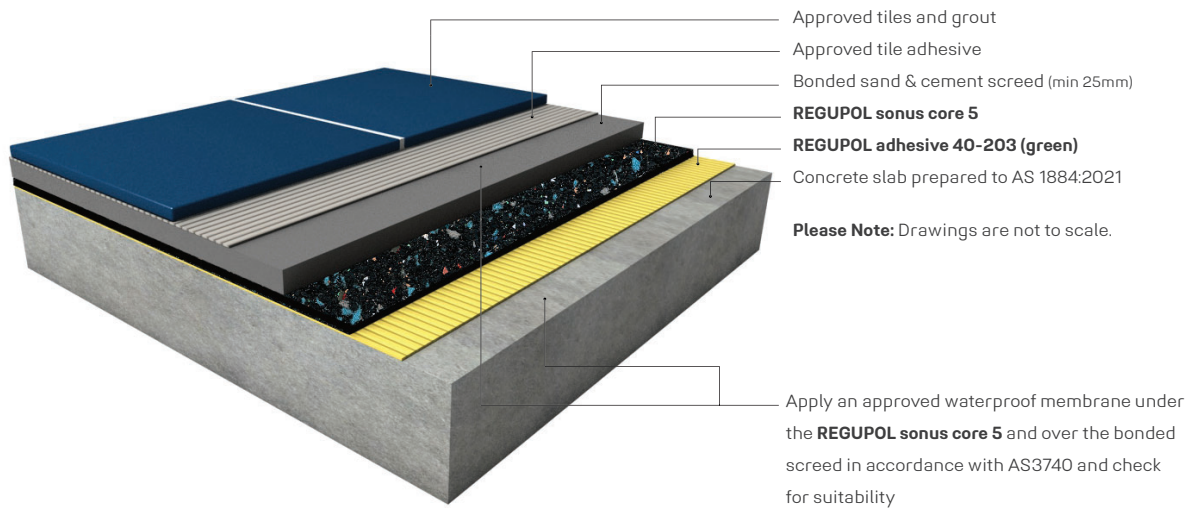
# DRY AREA BONDED SCREED & TILE

This **REGUPOL sonus core 5** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# WET AREA BONDED SCREED & TILE

This **REGUPOL sonus core 5** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



SOUNDPROOFING  
**SCREEDED TILE FLOORS**



# REGUPOL SONUS CURVE 6

**REGUPOL sonus curve 6** is a high performance acoustic underlay, designed to reduce the transmission of impact sound generated by footfall noise.

Suitable for green buildings, the **REGUPOL sonus curve 6** is a sustainable product made from post-consumer end of life tyre bound with polyurethane.

This environmentally preferable product has been independently certified as meeting the requirements of Good Environmental Choice Australia GECA 25-2011 v2.0i - Floor Coverings Standard. See [www.geca.eco](http://www.geca.eco)

**REGUPOL sonus curve 6** can be installed under bonded and unbonded screed beds as a complete system with stone,

marble, tiles or selected floor coverings. Also suitable as a system under cement sheeting or plywood sheeting with selected floor coverings such as solid timber and approved engineered timber floors. All applications should be checked for suitability with the selected floor finish, waterproof membranes, **REGUPOL** adhesives, tile adhesives, grouts etc.



**Available in:**  
 Rolls 1.25m x 20lm  
 Thickness 6mm dimpled

## ACOUSTICAL PERFORMANCE

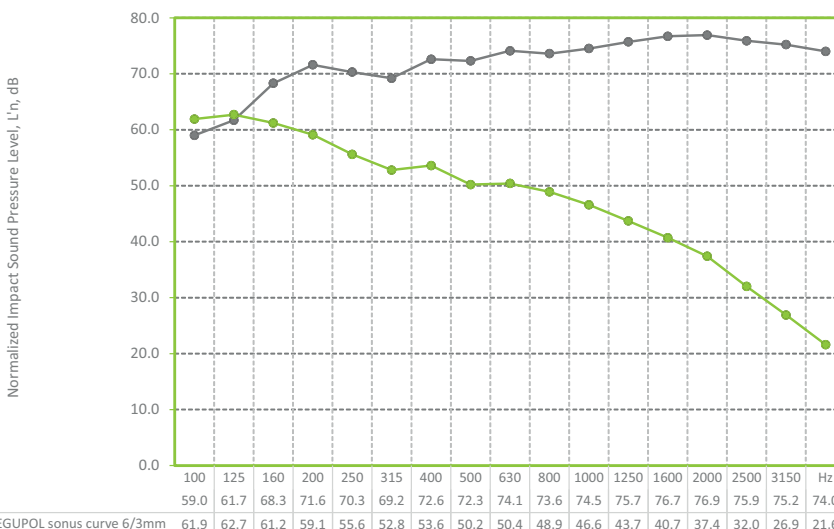
### TILE WITH SCREED Normalized Impact Sound Pressure Levels

Tested at CSIRO Clayton, in accordance with ISO 140-8: 2006 (E), ISO 140-6-2006, AS ISO 717.2-2004, ASTM E989-89. Test area 10.8m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded.

### REPORT RG095

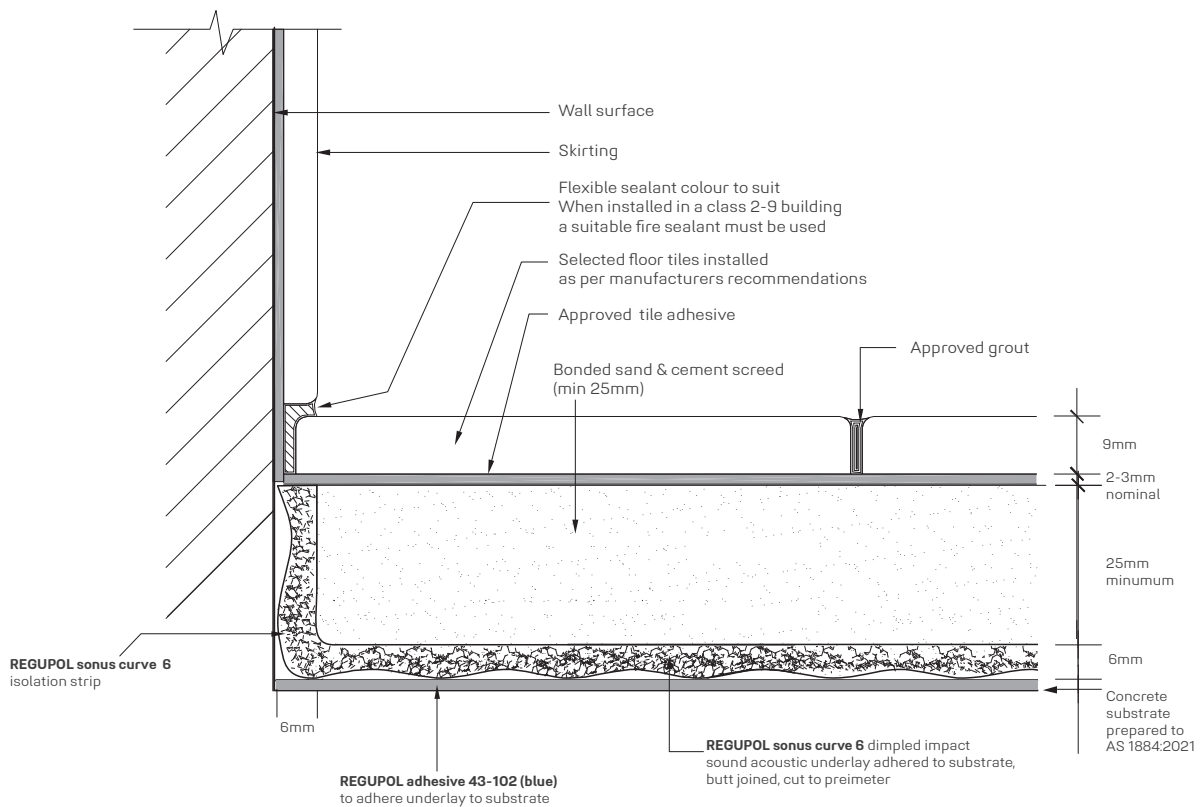
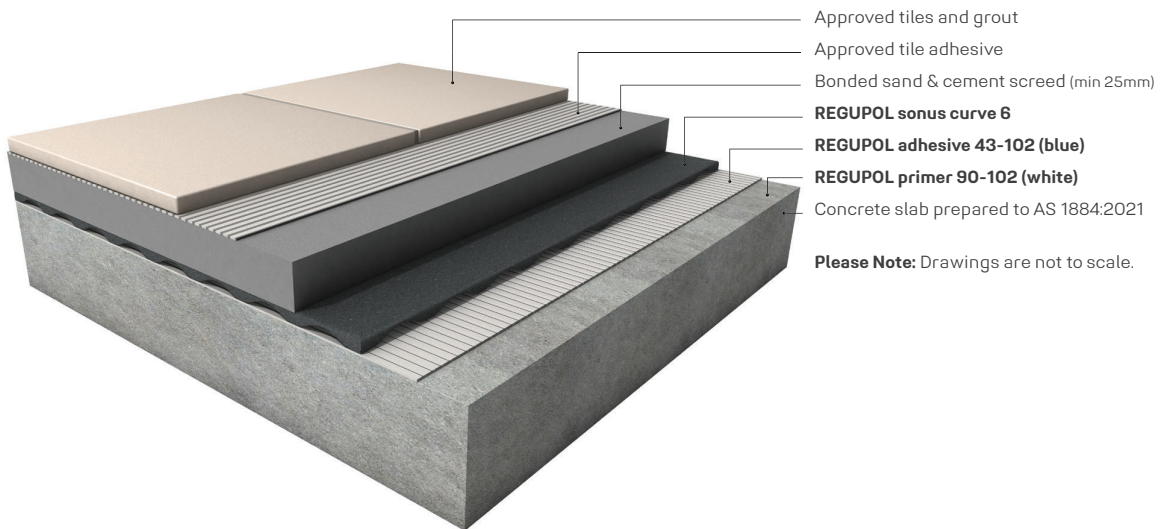
Layer of 8mm Ceramic Tile bonded to 30mm Screed Bed, to **REGUPOL sonus curve 6/3mm**, to 150mm Concrete Slab (no ceiling).

$L_{n,w}$  52dB  
 $\Delta L_w$  24dB  
 57 IIC



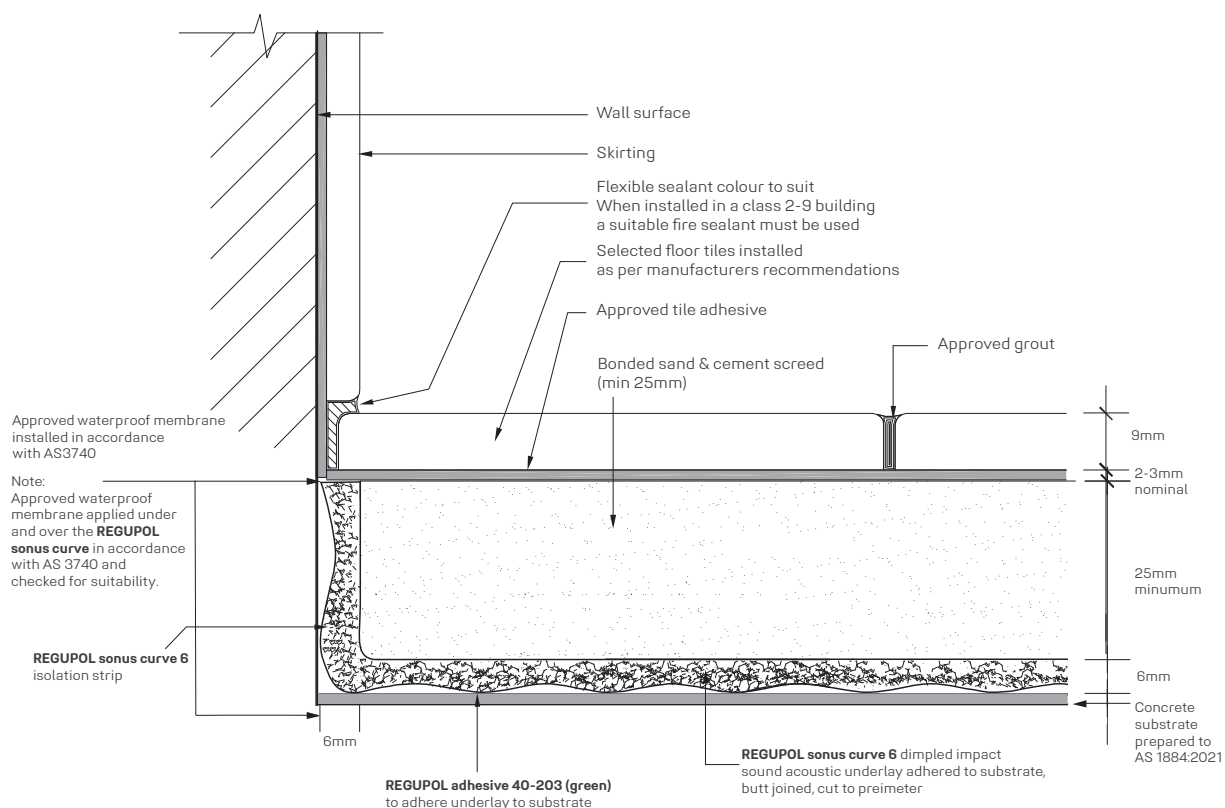
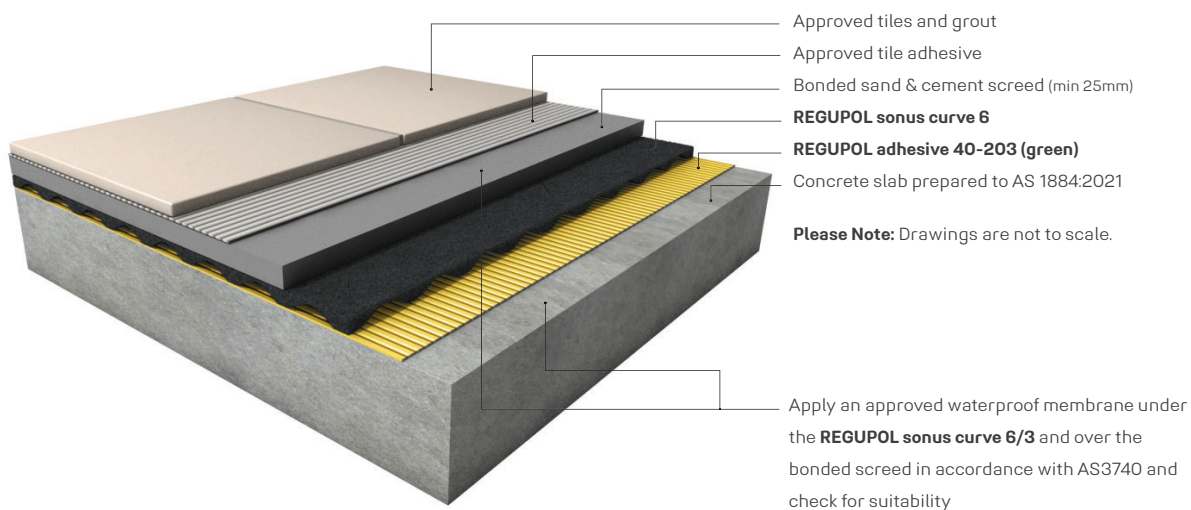
# DRY AREA BONDED SCREED & TILE

This **REGUPOL sonus curve 6** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# WET AREA BONDED SCREED & TILE

This **REGUPOL sonus curve 6** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# SOUNDPROOFING **SCREEDED TILE FLOORS**



# REGUPOL SONUS CURVE 8

**REGUPOL sonus curve 8** is a high performance acoustic underlay, designed to reduce the transmission of impact sound generated by footfall noise.

Suitable for green buildings, the **REGUPOL sonus curve 8** is a sustainable product made from post-consumer end of life tyre bound with polyurethane.

This environmentally preferable product has been independently certified as meeting the requirements of Good Environmental Choice Australia GECA 25-2011 v2.0i - Floor Coverings Standard. See [www.geca.eco](http://www.geca.eco)

**REGUPOL sonus curve 8** can be installed under bonded and unbonded screed beds as a complete system with stone, marble, tiles or selected floor coverings. Also suitable as a system under cement sheeting or plywood sheeting with selected floor coverings such as solid timber and approved engineered timber floors. All applications should be checked for suitability with the selected floor finish, waterproof membranes, **REGUPOL adhesives**, tile adhesives, grouts etc.



**Available in:**

Rolls	1.15m x 20lm
Thickness	8mm dimpled



## ACOUSTICAL PERFORMANCE

### TILE WITH SCREED Normalized Impact Sound Pressure Levels

Tested at CSIRO Clayton, in accordance with ISO 140-8: 2006 (E), ISO 140-6-2006, AS ISO 717.2-2004, ASTM E989-89. Test area 10.8m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded.

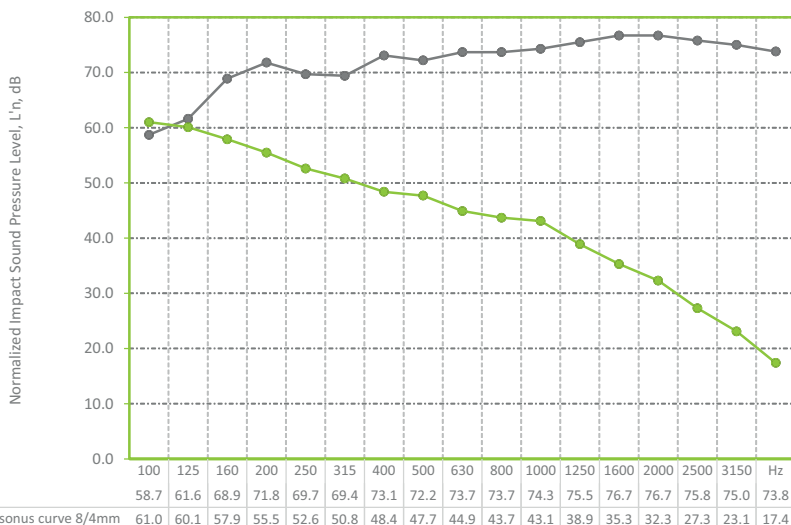
### REPORT RG096

Layer of 8mm Ceramic Tile bonded to 30mm Screed Bed, to **REGUPOL sonus curve 8/4mm**, to 150mm Concrete Slab (no ceiling).

Ln,w  
50dB

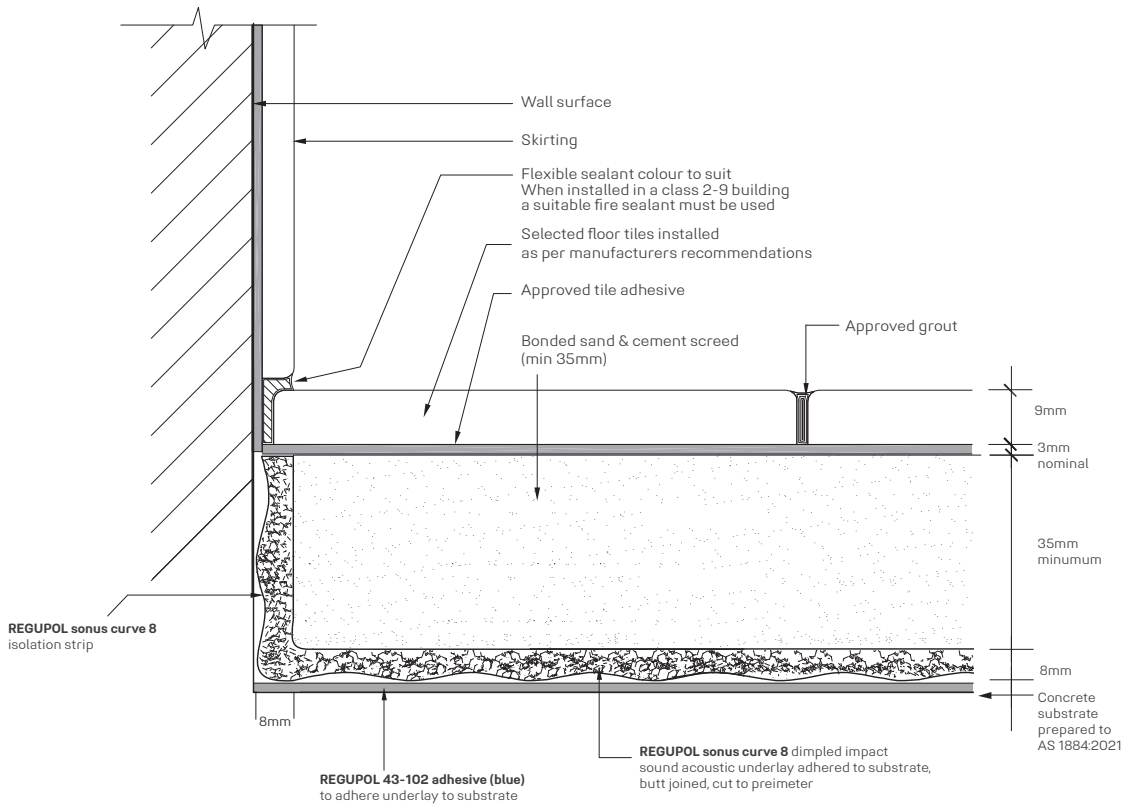
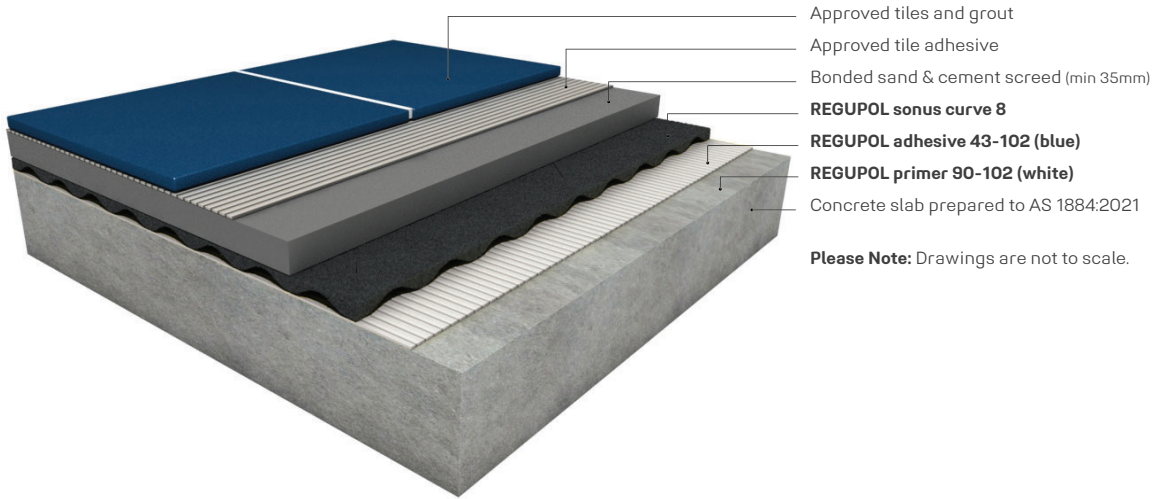
ΔLw  
26dB

59  
IIC



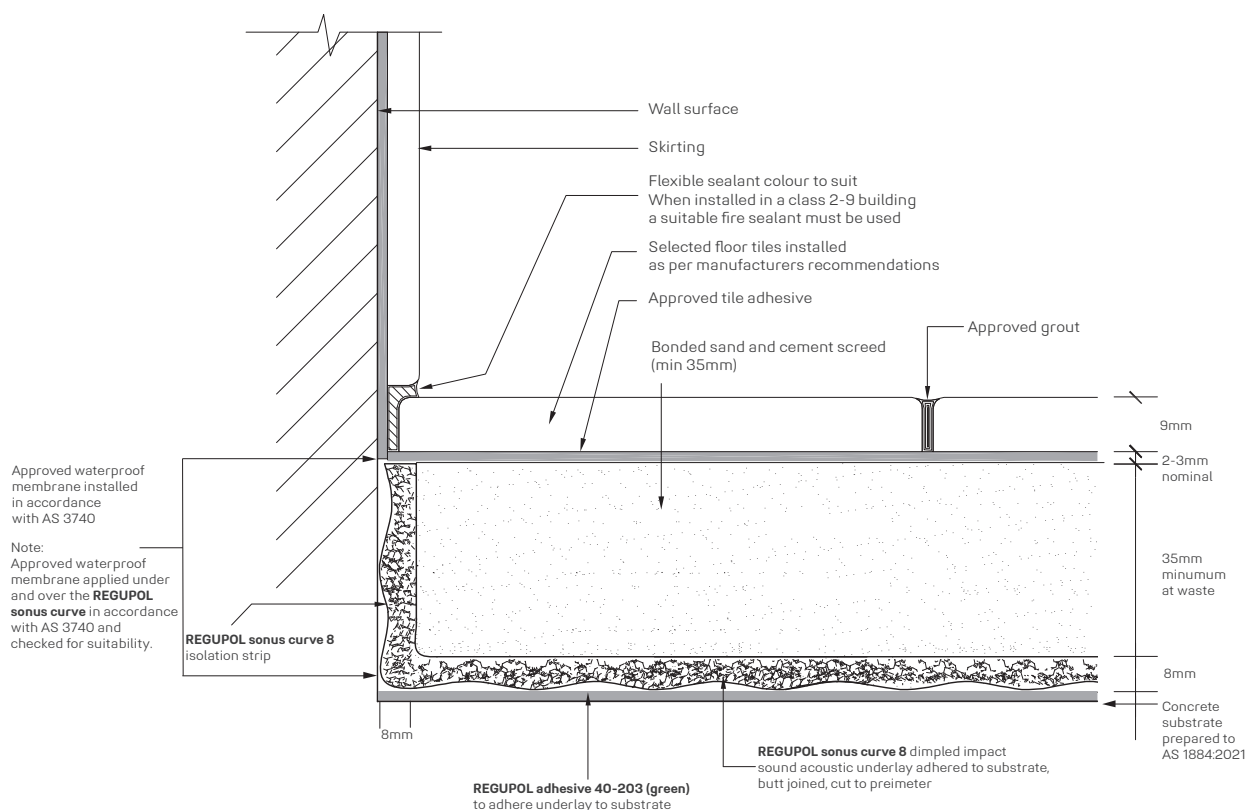
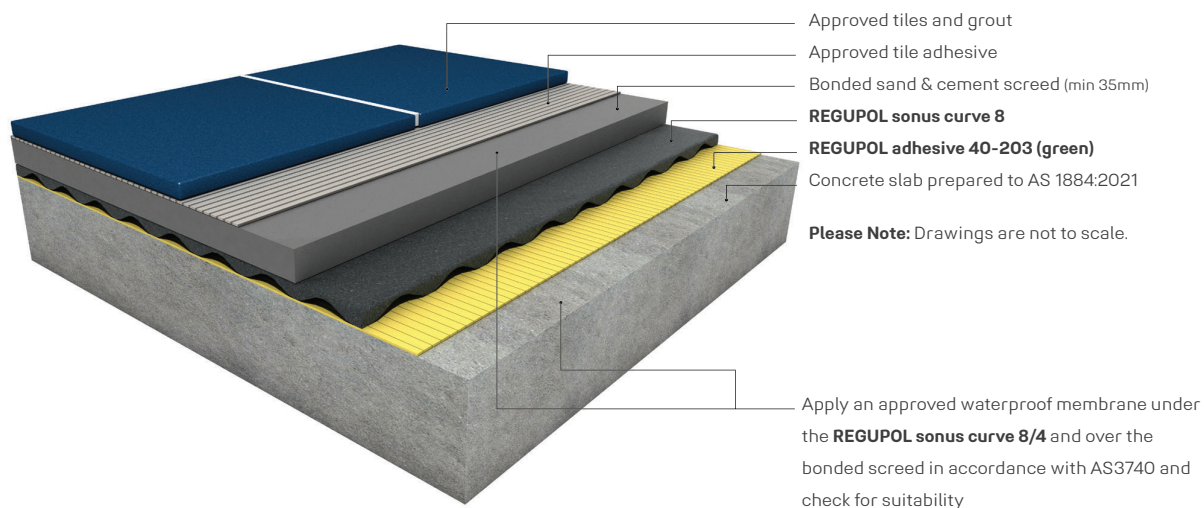
# DRY AREA BONDED SCREED & TILE

This **REGUPOL sonus curve 8** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# WET AREA BONDED SCREED & TILE

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# REGUPOL SONUS CORE 10-S

**REGUPOL sonus core 10-S** is a high performance acoustic underlay, designed to reduce the transmission of impact sound generated by footfall noise.

Suitable for green buildings, the **REGUPOL sonus core 10-S** is a sustainable product made from post-consumer end of life tyre bound with polyurethane.

This environmentally preferable product has been independently certified as meeting the requirements of Good Environmental Choice Australia GECA 25-2011 v2.0i - Floor Coverings Standard. See [www.geca.eco](http://www.geca.eco)

**REGUPOL sonus core 10-S** can be installed under bonded and unbonded screed beds, laminate and engineered timber floors. All applications should be checked for suitability with the selected floor finish, waterproof membranes, **REGUPOL** adhesives, tile adhesives, grouts etc.



Available in:

Rolls	1.25m x 10lm, 20lm
Thickness	10mm

## ACOUSTICAL PERFORMANCE

### TILE WITH SCREED Normalized Impact Sound Pressure Levels

Tested at CSIRO Clayton, in accordance with ISO 140-8: 2006 (E), ISO 140-6-2006, AS ISO 717.2-2004, ASTM E989-89. Test area 10.8m<sup>2</sup>. Results can vary when different floors are installed and/or if bonded.

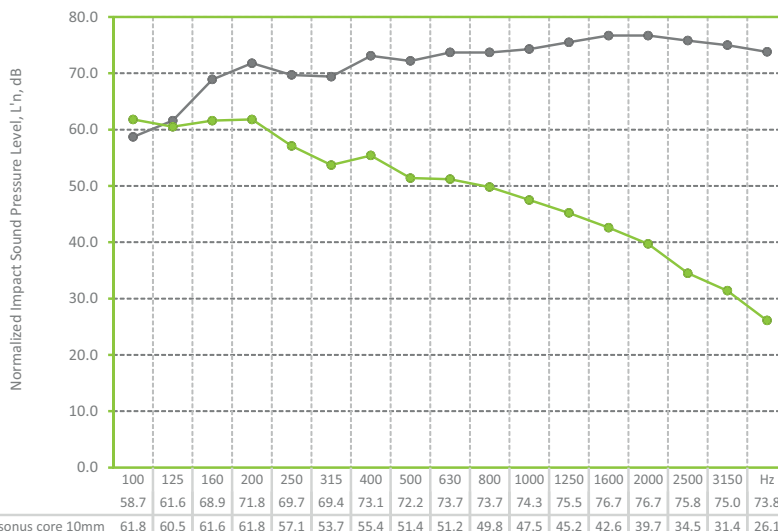
### REPORT RG097

Layer of 8mm Ceramic Tile bonded to 30mm Screed Bed, to **REGUPOL sonus core 10mm**, to 150mm Concrete Slab (no ceiling).

$L_{n,w}$   
53dB

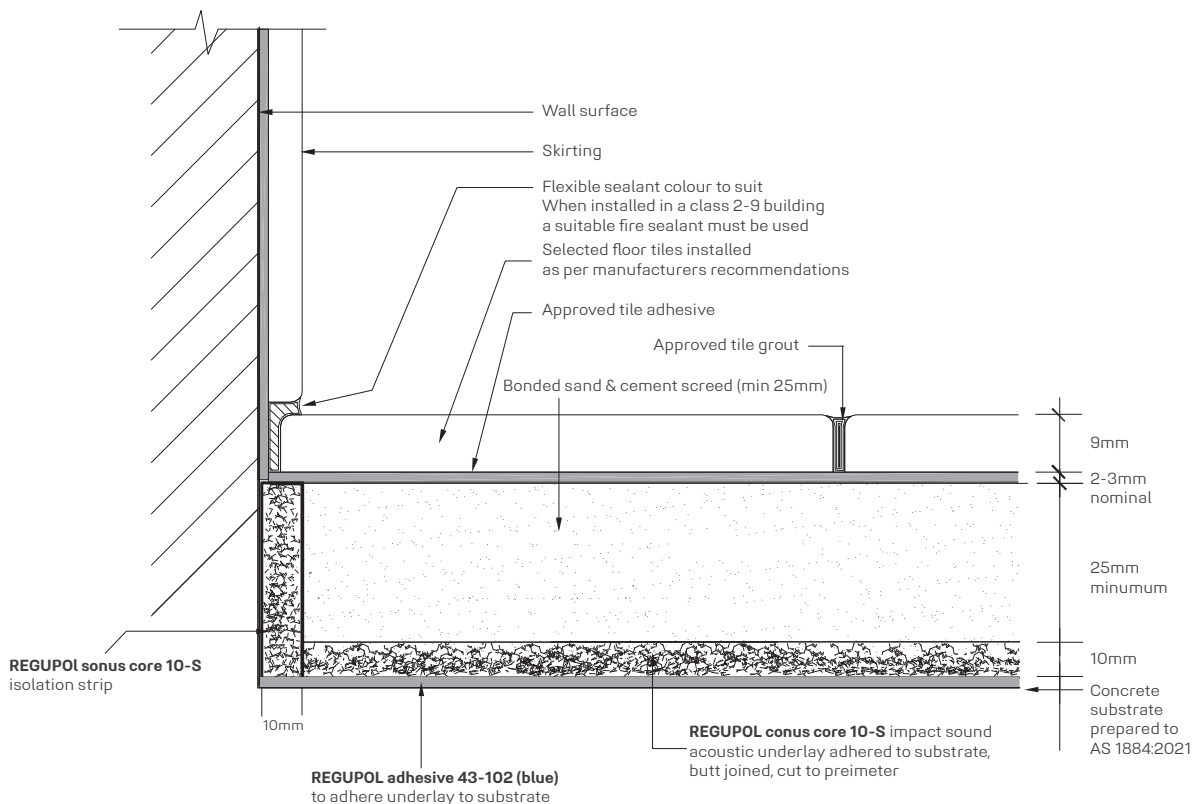
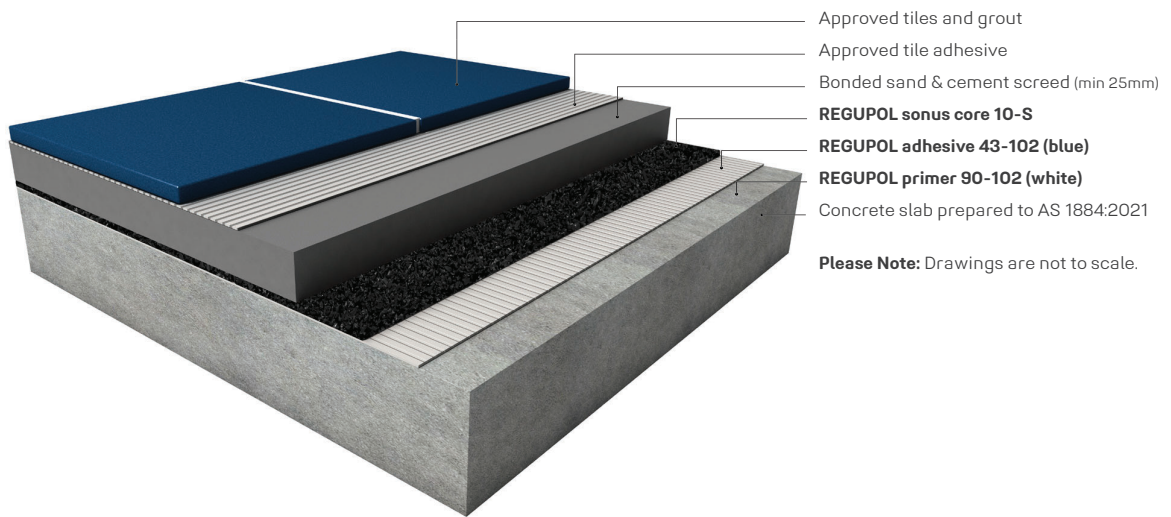
$\Delta L_w$   
23dB

57  
IIC



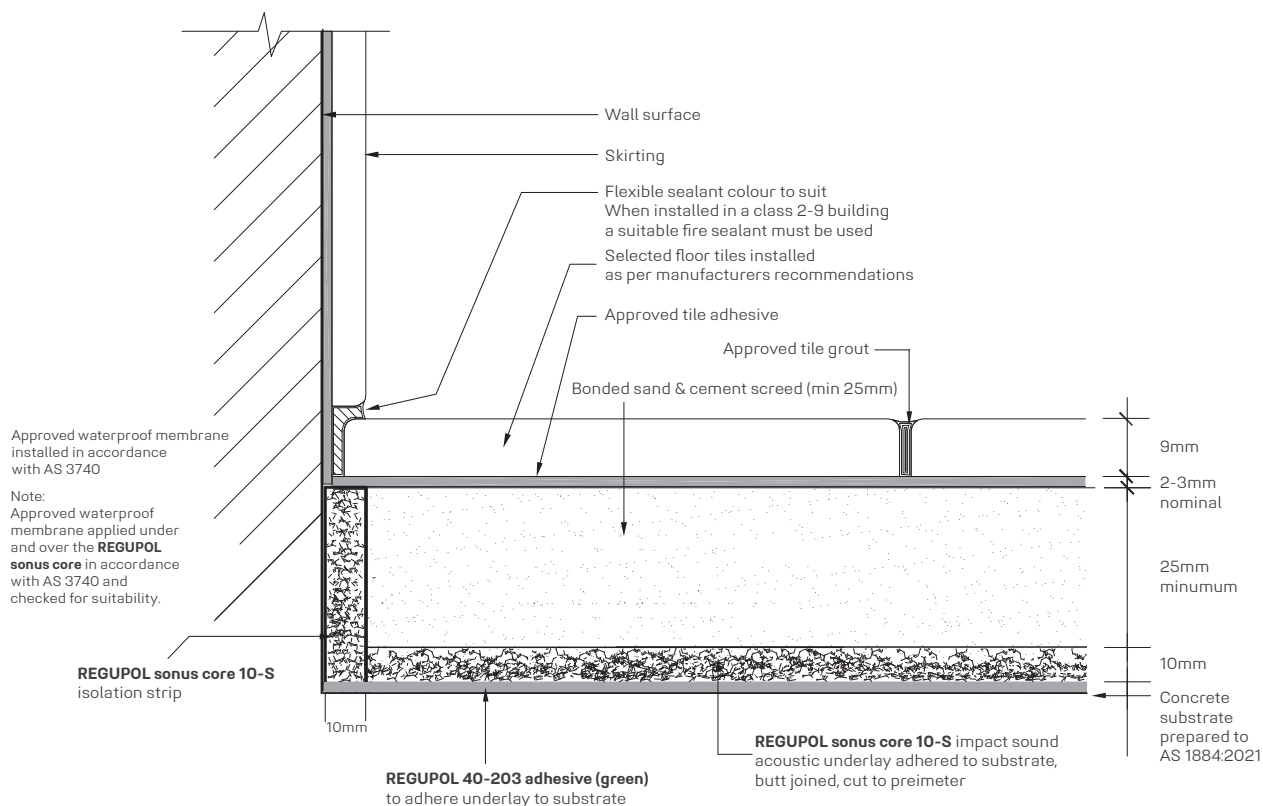
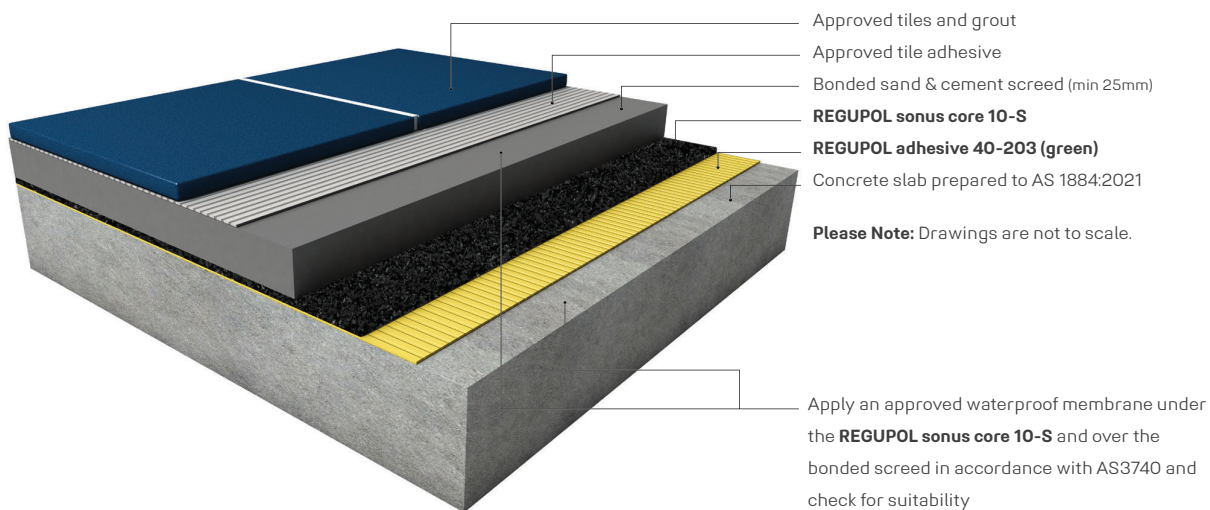
# DRY AREA BONDED SCREED & TILE

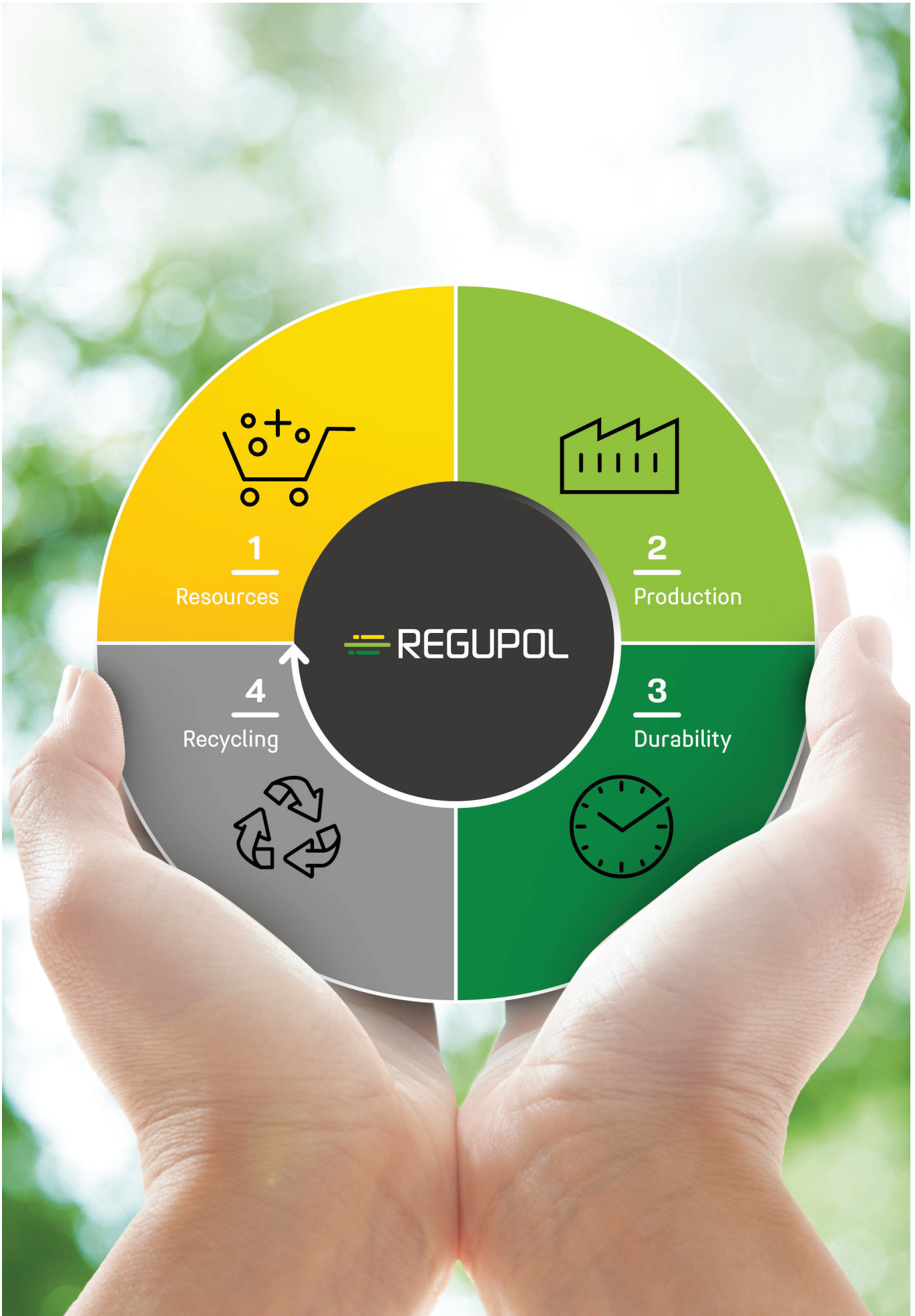
This **REGUPOL sonus core 10-S** system reflects a typical residential application with approved screed beds. For all other applications please contact **REGUPOL** acoustic division. Please note that drawings are not to scale and are for illustration purposes only.



# WET AREA BONDED SCREED & TILE

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1  
Resources



2  
Production

 REGUPOL

3  
Durability

4  
Recycling



# BUILD ON A TRADITION OF SUSTAINABILITY

**REGUPOL Australia** has a long history in sustainable rubber flooring and noise and vibration solutions, with over 35 years of experience supporting the Australian construction industry. Internationally, **REGUPOL Germany** marks 70 years of operation as a family-run business with an enduring legacy of innovation in recycled product manufacturing. **REGUPOL** remains committed to developing high-quality, sustainable products for the flooring, industrial, and construction sectors.

**REGUPOL's** focus on sustainability—producing eco-friendly, high-quality products—is reflected in its GECA, Cradle to Cradle Certified and EPD certifications. These trusted accreditations demonstrate our dedication to responsible manufacturing and environmental stewardship. They facilitate certification for green building design projects, helping to meet sustainability criteria efficiently and effectively.

Whether it's a new construction project or renovation, **REGUPOL's** expertise and certified products provide reliable solutions that contribute to both the functional performance and sustainability of the building.



## NATSPEC

### Need help writing a specification?

The **REGUPOL sonus** range of acoustic underlays is installed under various floor coverings and standards.

To simplify the specification process, follow the NATSPEC branded work section: 0473p REGUPOL (acoustic floor underlays). **Visit [www.natspec.com.au](http://www.natspec.com.au)**

## INSTALLATION GUIDELINES

The **REGUPOL sonus** acoustic underlays are engineered to meet the highest sound insulation standards, providing an effective solution for noise control in various environments. To ensure optimal performance, closely following the manufacturer's installation guidelines is crucial. This includes adhering to the Australian Standard AS 1884:2021 for resilient sheet and tile flooring installation practices.

## OUR ACCREDITATIONS



### GECA

The early adoption of third-party certification has seen many **REGUPOL sonus** acoustic underlay products used in sustainable building projects. The **REGUPOL sonus** acoustic range has been GECA certified to standard 25-2011 v21 since 2008. **Visit [www.geca.eco](http://www.geca.eco)**



### EPD

The **REGUPOL** rolls and sheets Environmental Product Declaration, as per ISO 14025 and EN 15804+A2, covers all **REGUPOL sonus** acoustic underlay products. **Visit [www.eco-platform.org](http://www.eco-platform.org)**



### CRADLE TO CRADLE CERTIFIED

**REGUPOL** has 126 sports, acoustics, construction, and load-securing products, receiving the Cradle to Cradle Certified® at the Bronze level for standard v3.1. Cradle to Cradle

Certified® is a registered trademark of the Cradle to Cradle Product Innovation Institute (C2CPII). Products with Cradle to Cradle Certification are marked in this brochure with the certified logo. **Visit [www.C2ccertified.org](http://www.C2ccertified.org)**

### GBCA RESPONSIBLE PRODUCT VALUE

Green Star is the Green Building Council of Australia's sustainability rating system for the built environment. It is used to rate new and existing buildings, new fit-outs, and new precinct developments. The Green Building Council of Australia recognises Responsible Products that may contribute to a Green Star rating through its Responsible Credits.

Products may be certified by more than one initiative. This may increase the RPV of the product. Information on initiatives and how products can contribute to a Green Star rating can be found at: **[new.gbca.org.au/green-star/the-responsible-products-program](http://new.gbca.org.au/green-star/the-responsible-products-program)**



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**REGUPOL Zebra Athletics LLC**

**BSW Shanghai CO. LTD.**

[www.acoustics.regupol.com.au](http://www.acoustics.regupol.com.au)