TERRA LANA WOOL INSULATION PRODUCT SPECIFICATIONS & DATA

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Acoustic specifications



SPECIFICATION TABLE TERRA LANA WOOL INSULATION

All products are available in customised widths, lengths and R-values for orders over 50m²

R-VALUE	THICKNESS	CENTRES	GSM	DENSITY	λ-VALUE	CODE
CEILING SERVICE C	AVITY					
R0.9	35mm	600mm	1000 gsm	28.6 kg/m ³	0.0389 Wm ² K	09.35.570
R1.2	45mm	600mm	1200 gsm	26.7 kg/m ³	0.0375 W/m ² K	12.45.570
R2.4	90mm	600mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.560
SKILLION ROOF - 0	Can also be used	in Truss roof				
R3.6	140mm	600mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.560
R5.0	190mm	600mm	5700 gsm	30.0 kg/m ³	0.0380 W/m ² K	50.190.570
R6.4	240mm	600mm	7400 gsm	30.8 kg/m ³	0.0375 W/m ² K	64.240.570
R7.2	290mm	600mm	6800 gsm	23.4 kg/m ³	0.0403 W/m ² K	72.290.570
TIMBER I-BEAM RA	FTER 'FILLET' - (Custom fillets available f	for all hyJOIST and	Lumberworx I-Beam	s – see our website	
R0.9	35mm	200mm hyJOIST	1000 gsm	28.6 kg/m ³	0.0389 W/m ² K	09.35.120F
R0.9	35mm	240mm hyJOIST	1000 gsm	28.6 kg/m ³	0.0389 W/m ² K	09.35.160F
TRUSS ROOF						
R3.6	180mm	900mm	2600 gsm	14.4 kg/m³	0.0500 W/m ² K	36.180.435
R4.0	190mm	900mm	3000 gsm	15.8 kg/m³	0.0475 W/m ² K	40.190.435
TRUSS ROOF DOUE	BLE LAYER					
R5.2 (R2.6 + R2.6)	290 mm	900mm	3420 gsm	11.8 kg/m³	0.0558 W/mK	26.145.435
R6.4 (R3.2 + R3.2)	330 mm	900mm	4400 gsm	13.3 kg/m³	0.0516 W/mK	32.165.435
R7.2 (R3.6 + R3.6)	360mm	900mm	5200 gsm	14.4 kg/m³	0.0500 W/mK	36.180.435
R8.0 (R4.0 + R4.0)	380mm	900mm	6000 gsm	15.8 kg/m³	0.0475 W/mK	40.190.435
WALL SERVICE CAV	ITY					
R1.2	45mm	600mm	1200 gsm	26.7 kg/m ³	0.0375 W/m ² K	12.45.570
90mm WALL						
R2.4	90mm	400mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.360
R2.4	90mm	600mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.560
140mm WALL			_			
R3.2	140mm	400mm	2600 gsm	18.6 kg/m ³	0.0438 W/m ² K	32.140.360
R3.2	140mm	600mm	2600 gsm	18.6 kg/m ³	0.0438 W/m ² K	32.140.560
R3.6	140mm	400mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.360
R3.6	140mm	600mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.560
CHATTERBLOCK AG	COUSTIC - For in	ternal walls and midfloo	-			
R1.4	60mm	600mm	2800 gsm	46.7 kg/m ³	0.0430 W/m ² K	CB.60.560
R2.2	90mm	600mm	1960 gsm	21.8 kg/m ³	0.0640 W/m²K	CB.90.560
R3.2	140mm	600mm	2550 gsm	18.2 kg/m ³	0.0438 W/m ² K	CB.140.560
RETRO-FIT UNDER				- · · · · · · · · · · · · · · · · · · ·		
R2.0	115mm	450mm	1200 gsm	10.4 kg/m ³	0.0575 W/m ² K	20.115.480
		R – Install from above w				
R2.7	110mm	400mm	3300 gsm	30.0 kg/m ³	0.0407 W/m ² K	DIF.110.365
R3.2	140mm	400mm	3500 gsm	25.0 kg/m ³	0.0438 W/m²K	DIF.140.365













BENEFITS OF TERRA LANA WOOL INSULATION

HEALTHIER FOR PEOPLE, BETTER FOR THE PLANET



IN-SERVICE PERFORMANCE

Terra Lana wool insulation is hygroscopic, enabling it to absorb and release water vapour. This natural phenomenon, unique to wool, distinguishes it from synthetic insulation. Insulation R-values are typically tested in dry laboratory environments and don't model the moisture present in real-world conditions. The unique properties of wool insulation mean it excels in managing moisture while maintaining its thermal performance. This crucial benefit helps reduce the risk of moisture buildup within the structure of buildings.



LOCALLY GROWN, LOCALLY MADE

We source our wool from Banks Peninsula Farms, a collective of family-owned farms located less than an hour's drive from our Christchurch factory. This proximity offers multiple benefits: reduced transportation emissions, enhanced fibre quality control and traceability, and a positive economic impact on the local farming community. By partnering with nearby suppliers, Terra Lana ensures sustainable sourcing practices while supporting regional agriculture.



PRODUCT STEWARDSHIP

Terra Lana considers environmental impacts at each stage of the product life cycle. By offering custom manufacturing, we help architects design out construction waste and reduce on-site installation times. Any site offcuts can be recycled back into our production line to make new insulation. This makes Terra Lana insulation an excellent choice for Green Star and Homestar-rated projects, where product circularity, energy efficiency and waste reduction are key.



HEALTHY & SAFE

Terra Lana insulation can be handled without protective clothing and will not cause skin or respiratory irritation. Our products have a Declare label and are Red List Free, providing assurance that Terra Lana is a healthier option for builders, installers and the occupants of the building.



QUALITY & DURABILITY GUARANTEED

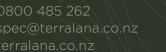
Our wool insulation comes with a 50-year warranty to meet the durability requirements of the New Zealand Building Code. The combination of New Zealand wool and thermal bonding technology creates a robust, structurally stable product that will not slump nor lose its loft over the lifetime of the building.















SKILLION ROOF WOOL INSULATION

PRODUCT DATA



The benefits of Terra Lana wool's superior performance designed for Skillion ceilings

APPLICATIONS

- Skillion roof (Truss roof or external walls where applicable)
- New and retrofit
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- 100% recyclable (by Terra Lana)
- · Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Manages moisture, maintaining thermal performance
- Excellent acoustic barrier qualities.

DESCRIPTION

Terra Lana harnesses all the benefits of wool's unique insulative qualities combined with innovative design for a truly high-performance skillion roof insulation. We use natural and recycled materials and manufacture locally to modern sustainability standards.

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing

Contact: spec@terralana.co.nz



R-VALUE	THICKNESS	CENTRES	BALE CONTAINS	M² PER BALE	CODE				
CEILING SERVICE CA	CEILING SERVICE CAVITY INSULATION								
R0.9	35mm	600mm	2 x 6m x 570mm	6.84 m²	09.35.570				
R1.2	45mm	600mm	2 x 5m x 570mm	5.70 m²	12.45.570				
R2.4	90mm	600mm	10 x 1.2m x 560mm	6.72 m²	24.90.560				
SKILLION ROOF INS	ULATION								
R3.6	140mm	600mm	8 x 1.2m x 560mm	5.38 m ²	36.140.560				
R5.0	190mm	600mm	5 x 1.2m x 570mm	3.42 m²	50.190.570				
R6.4	240mm	600mm	4 x 1.2m x 570mm	2.74 m²	64.240.570				
R7.2	290mm	600mm	4 x 1.2m x 570mm	2.74 m ²	72.290.570				









TRUSS ROOF WOOL INSULATION

PRODUCT DATA



The benefits of Terra Lana wool's superior performance designed for Truss roof ceilings

APPLICATIONS

- Truss roof (Skillion roof or external walls where applicable)
- New and retrofit
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- 100% recyclable (by Terra Lana)
- · Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Manages moisture, maintaining thermal performance
- Excellent acoustic barrier qualities.

DESCRIPTION

Terra Lana harnesses all the benefits of wool's unique insulative qualities combined with innovative design for a truly high-performance truss roof insulation. We use natural and recycled materials and manufacture locally to modern sustainability standards.

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing

Contact: spec@terralana.co.nz



SPECIFICATIONS					
R-VALUE	THICKNESS	CENTRES	BALE CONTAINS	M² PER BALE	CODE
CEILING SERVICE CA	AVITY INSULATION				
R0.9	35mm	600mm	2 x 6m x 570mm	6.84 m²	09.35.570
R1.2	45mm	600mm	2 x 5m x 570mm	5.70 m²	12.45.570
R2.4	90mm	600mm	10 x 1.2m x 560mm	6.72 m ²	24.90.560
TRUSS ROOF INSULA	ATION				
R3.6	180mm	900mm	10 x 1.2m x 435mm	5.22 m ²	36.180.435
R4.0	190mm	900mm	10 x 1.2m x 435mm	5.22 m ²	40.190.435
TRUSS ROOF DOUB	LE LAYER INSULATION				
R5.2 (R2.6 + R2.6)	290mm	900mm	12 x 1.2m x 435mm	3.13 m ²	26.145.435
R6.4 (R3.2 + R3.2)	330mm	900mm	10 x 1.2m x 435mm	2.61 m ²	32.165.435
R7.2 (R3.6 + R3.6)	360mm	900mm	10 x 1.2m x 435mm	2.61 m ²	36.180.435
R8.0 (R4.0 + R4.0)	380mm	900mm	10 x 1.2m x 435mm	2.61 m ²	40.190.435

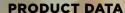








TIMBER I-BEAM FILLET WOOL INSULATION





The natural benefits of Terra Lana wool for optimal insulation of timber I-Beam systems

DESCRIPTION

span capacity.

Note

thermal performance.

APPLICATIONS

- hyJOIST rafters/joists
- Lumberworx rafters/joists

FEATURES

- The only specific solution available for timber I-Beams
- Maximises thermal performance of timber I-Beams
- Custom made to fit all timber I-Beam sizes
- Easy to install, manufactured to friction fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- 100% recyclable (by Terra Lana)

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD. (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty
- H1 COMPLIANT. Designed to meet/exceed

SPEC ASSIST – Contact: spec@terralana.co.nz

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Manufacturer	I-Beam Size	Fillet Size
hyJOIST	200mm	120mm
hyJOIST	240mm	160mm
hyJOIST*	300mm	220mm
Lumberworx*	200mm	140mm
Lumberworx*	240mm	180mm
Lumberworx*	300mm	240mm

FILLET

Timber I-Beams are often specified over standard solid timber framing to reduce thermal bridging and increase

I-Beam's create voids that are difficult to insulate using

standard insulation products. Terra Lana timber I-Beam

fillets friction-fit within the voids to ensure maximum

When specifying vapour control layers, such as Pro Clima Intello,

directly beneath rafters, consider spacing rafters at 600mm centres max. This will ensure the insulation can friction fit and

be stapled to the edge of the rafter, without applying excessive

pressure on the vapour control layer, or falling out of the cavity.

R-VALUE	BATTEN	JOIST SIZE	SIZE IN BALE	M² PER BALE	CODE
R0.9	35mm	200mm hyJOIST	8 x 6m x 120mm	48 lm/bale	09.35.120F
R0.9	35mm	240mm hyJOIST	7 x 6m x 160mm	42 lm/bale	09.35.160F

^{*} Other product fillets made to order—specify by fillet size, as per table above











EXTERIOR WALL WOOL INSULATION

PRODUCT DATA



The natural benefits of Terra Lana Wool designed for optimal exterior wall insulation

APPLICATIONS

- External stud walls (& ceilings where applicable)
- New and retrofit
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- 100% recyclable (by Terra Lana)
- · Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Manages moisture, maintaining thermal performance
- Excellent acoustic barrier qualities

DESCRIPTION

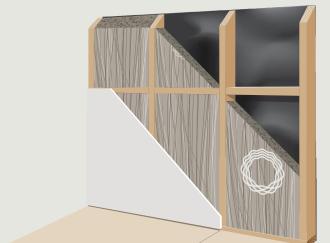
Terra Lana Wool Wall Insulation is designed with rigidity to friction fit within exterior wall cavities and not slump or degrade over the life of the building.

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD. (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty
- H1 COMPLIANT. Designed to meet/exceed

SPEC ASSIST – Contact: spec@terralana.co.nz

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing



R-VALUE	THICKNESS	CENTRES	BALE CONTAINS	M² PER BALE	CODE
WALL SERVICE CAVI	TY				
R1.2	45mm	600mm	2 x 5m x 570mm	5.70 m ²	12.45.570
90MM WALL					
R2.4	90mm	400mm	10 x 1.2m x 360mm	4.32 m ²	24.90.360
R2.4	90mm	600mm	10 x 1.2m x 560mm	6.72 m ²	24.90.560
140MM WALL					
R3.2	140mm	400mm	10 x 1.2m x 360mm	4.32 m ²	32.140.360
R3.2	140mm	600mm	10 x 1.2m x 560mm	6.72 m ²	32.140.560
R3.6	140mm	400mm	10 x 1.2m x 360mm	4.32 m²	36.140.360
R3.6	140mm	600mm	8 x 1.2m x 560mm	5.38 m ²	36.140.560

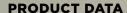








SERVICE CAVITY WOOL INSULATION





The natural benefits of Terra Lana Wool Insulation designed to fill service cavities

APPLICATIONS

- All ceiling and wall service cavities
- New and retrofit
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Excellent acoustic barrier qualities

DESCRIPTION

Terra Lana service cavity insulation is designed to fill service cavity spaces adding R-Value to the thermal envelope, while still allowing the passage of wiring and plumbing services.

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing

Contact: spec@terralana.co.nz



R-VALUE	THICKNESS	CENTRES	DENSITY	M² PER BALE	CODE			
CEILING SERVICE CA	CEILING SERVICE CAVITY INSULATION							
R0.9	35mm	600mm	2 x 6m x 570mm	6.84 m²	09.35.570			
R1.2	45mm	600mm	2 x 5m x 570mm	5.70 m²	12.45.570			
R2.4	90mm	600mm	10 x 1.2m x 560mm	6.72 m²	24.90.560			
WALL SERVICE CAVITY INSULATION								
R1.2	45mm	600mm	2 x 5m x 570mm	5.70 m ²	12.45.570			









NEW BUILD DROP IN FLOOR WOOL INSULATION



PRODUCT DATA

The natural benefits of Terra Lana Wool insulation designed for new suspended floors

APPLICATIONS

- New lined and unlined timber suspended floors
- Retrofit, installed from above
- Non-enclosed or enclosed perimeter foundation floors
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Proprietory installation system
- Excellent acoustic barrier qualities

DESCRIPTION

Designed to be installed from above prior to sheet flooring, held by friction fit and Terra Lana's proprietory cradle-strap fastening system.

Terra Lana Drop In Floor Insulation is dense, semi-rigid and highly resistant to slumping, creating a wind-proof layer that fills the underfloor voids leaving no gaps.

The wool component provides optimal thermal insulation, while also transmitting moisture away from the building and remaining effective even in damp underfloor conditions.

Terra Lana is locally manufactured from predominantly natural and recycled materials and is safe and easy to handle, providing an overall product solution to meet modern environmental compliance demands.

COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
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Contact: spec@terralana.co.nz



SPECIFICATIONS

R-VALUE THICKNESS	CENTRES	BALE CONTAINS	M² PER BALE	CODE
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NEW BUILD DROP IN UNDERFLOOR - Install from above with proprietry fastening system, prior to sheet flooring

R2.7	110mm	400mm	8 x 1.2m x 365mm	3.50 m²	DIF.110.365
R3.2	140mm	400mm	8 x 1.2m x 365mm	3.50 m ²	DIF.140.365

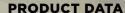








RETROFIT UNDERFLOOR WOOL INSULATION





The superior natural benefits of Terra Lana Wool insulation designed for underfloors

APPLICATIONS

- Suspended floors, installed from the underside where there is a minimum 350mm clearance between the bearer and ground.
- Retrofit under existing floors only
- Residential and commercial buildings

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- 100% recyclable (by Terra Lana)
- Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Manages moisture, maintaining thermal performance
- Excellent acoustic barrier qualities

COMPLIANCE

- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing

Contact: spec@terralana.co.nz

DESCRIPTION

Designed to fill existing underfloor cavities with a durable, semi-rigid, high performance wool composition that is easy to install. The rigid structure prevents sagging, air movement and heat loss through gaps. The wool component transmits moisture vapour away from the building and maintains effectiness in humid or damp conditions.



SPECIFICATIONS

R-VALUE THICKNESS CENTRES BALE CONTAINS M² PER BALE CODE

UNDERFLOOR INSULATION

R2.0 115mm 450mm 2 x 5.6m x 480mm 5.38 m² 20.115.480







The benefits of Terra Lana wool's premium performance designed to block out noise

APPLICATIONS

- Inter-tenancy walls and floors including GIB Systems (see next page)
- Residential and commercial buildings
- Internal walls & midfloors between living areas.

FEATURES

- Designed to not slump or lose loft
- Superior insulative performance
- 100% recyclable (by Terra Lana)
- Easy to install, manufactured to fit
- Environmentally responsible product
- Naturally safe to handle & healthy in the home
- Manages moisture, maintaining thermal performance
- Excellent acoustic barrier qualities

DESCRIPTION

Terra Lana Chatterblock® leverages on wool's outstanding sound absording qualities. The semi-rigid construction is specifically formulated with a high density of at least 18kg/m³, giving a high flow resistance suitable for a wide range of specialised sound control.

Chatterblock® is locally manufactured from sheep wool from Canterbury farms and is safe to handle and easy to friction fit install, providing a solution that meets modern acoustic and environmental compliance standards.

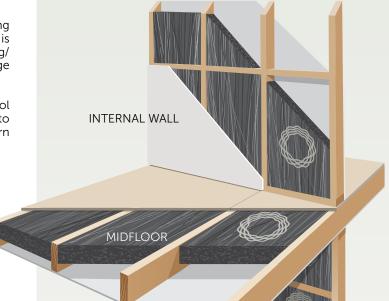
COMPLIANCE

- BRANZ APPRAISED. Appraisal 682 [2022]
- DECLARE RED LIST FREE. Certified toxin free
- GREENGUARD. Indoor air quality test approved
- HOMESTAR/GREENSTAR. Credits available
- EPD (in process for mid 2024 completion)
- QUALITY ASSURANCE. 50 year warranty

SPEC ASSIST

- Masterspec
- Smart Spec
- Design Navigator
- H1 Reports & spec writing

Contact: spec@terralana.co.nz



R-VALUE	THICKNESS	CENTRES	DENSITY	M ² PER BALE	CODE			
CHATTERBLOCK® A	CHATTERBLOCK® ACOUSTIC INSULATION – For internal walls and midfloors							
R1.4	60mm	600mm	46.7 kg/m³	8.06 m²	CB.60.560			
R2.2	90mm	600mm	21.8 kg/m³	8.06 m²	CB.90.560			
R3.2	140mm	600mm	18.2 kg/m³	6.72 m ²	CB.140.560			









GIB SYSTEM SOUND TRANSMISSION CLASS PRODUCT SPECIFICATIONS

GIB SPECIFICATION	STC*	GIB SPECIFICATION	STC*
Central barrier walls		Steel frame walls – GIB Rail and acous	tic resilient mount
Timber frame walls – with GIB Barrierl	ine central barrier	GBSA 30r	55
GBTLAB 60a	68	GBSA 60r	55
GBTLAB 60b	64	GBSA 90r	57
GBTLAB 60c	67	GBSIC 45a	55
GBTLAB 60d	61	Staggered steel stud walls	
Steel frame walls – with GIB Barrierline	e central barrier	GBSA 30s	55
GBSAB 60a	63	GBSA 90s	60
GBSAB 60b	67	GIB Rondo Quiet Stud	
GBSAB 60c	68	GBQSA 45	56
Staggered stud steel frame walls – with 13mm GIB Fyreline central barrier		GBQSA 60a	55
		GBQSA 90	58
GBSAB 60d	56	Floor/ceiling and suspended grid	
GBSAB 60e	57	Floor/ceiling systems	
Double frame walls		GBDFA 60b	57
Double timber frame walls		GBDFA 60d	67
GBTLA 30a	56	GBDFA 60e	65
GBTLA 30b	56	GBSJA 45	55
GBTLA 60	58	GBSJA 60	56
GBTLA 90c	60	Suspended grid systems	
GBTLA 90d	64	GBSCA 45	56
Double steel frame walls		GBSCA 60a	56
GBSA 30b	54		
GBSA 60c	58		
GBSA 45	59		
GBSA 90c	60		
GBSA 90d	64		
GBTLA 90r	55		
GBTLIC 45	61		
GBTLIC 60	62	*Sound Transmission Class	
GBTLIC 60a	57	the rating for how well a partition tenual numbers denote a greater reduction of	











