

The Val-U-Therm® Building System

Val-U-Therm is a factory insulated hybrid SIPs/timber frame off-site building system, providing warm & airtight closed panels for:

- ✦ External Walls
- ✦ Suspended Floors and
- ✦ Room in Roof structures

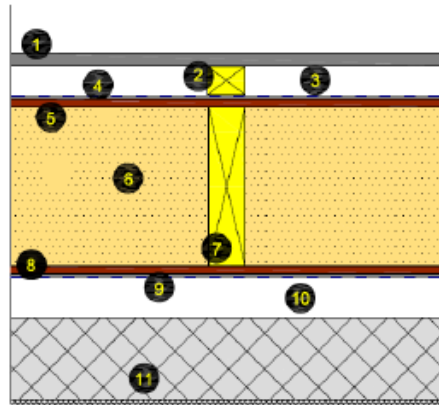


Val-U-Therm®
Future Proof Solutions

Val-U-Therm Walls

Option 1

- 1) PLASTERBOARD
- 2) SERVICE BATTEN
- 3) SERVICE VOID
- 4) REFLECTIVE VCL
- 5) OSB
- 6) INJECTED INSULATION
- 7) STUD
- 8) OSB
- 9) BREATHER MEMBRANE
- 10) 50MM CAVITY
- 11) BLOCK & RENDER

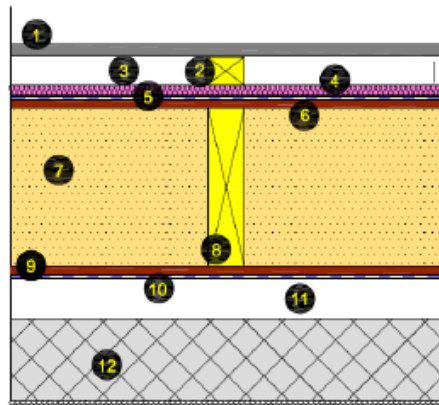


Large Panel Erection

		V90			V140			V184			V235		
		Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S
Option 1													
a	SBM - RVCL	0.24	0.25	0.25	0.17	0.18	0.18	0.14	0.14	0.14	0.11	0.12	0.12
b	RBM - RVCL	0.21	0.24	0.24	0.15	0.17	0.17	0.13	0.14	0.14	0.11	0.11	0.11

Options 2 & 3

- 1) PLASTERBOARD
- 2) SERVICE BATTEN
- 3) SERVICE VOID
- 4) INSULATION
- 5) STANDARD VCL
- 6) OSB
- 7) INJECTED INSULATION
- 8) STUD
- 9) OSB
- 10) BREATHER MEMBRANE
- 11) 50MM CAVITY
- 12) BLOCK & RENDER



Factory Fitted Patio Doors

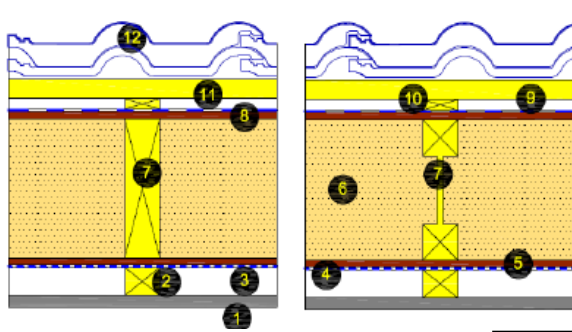
		V90			V140			V184			V235		
		Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S	Block/Brick	Timber Linings	RS & T / S
Option 2													
a	SBM - SVCL - 12mm PU Cont + foil facer	0.21	0.22	0.22	0.16	0.16	0.16	0.13	0.13	0.13	0.11	0.11	0.11
b	RBM - SVCL - 12mm PU Cont + foil facer	0.19	0.22	0.22	0.14	0.16	0.16	0.12	0.13	0.13	0.10	0.11	0.11
Option 3													
a	SBM - SVCL - 25mm PU Cont + foil facer	0.19	0.20	0.20	0.14	0.15	0.15	0.12	0.12	0.12	0.10	0.10	0.10
b	RBM - SVCL - 25mm PU Cont + foil facer	0.17	0.19	0.19	0.13	0.14	0.14	0.11	0.12	0.12	0.09	0.10	0.10

Key:

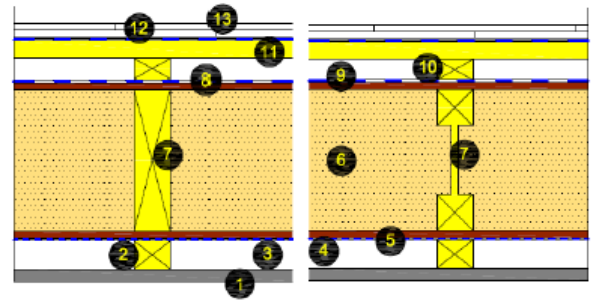
SBM - Standard Breather Membrane RBM - Reflective Breather Membrane RS - Render System
 SVCL - Standard Vapour Control Layer RVCL - Reflective Vapour Control Layer T/S - Tiles/Slates

Val-U-Therm Roofs

U Value Options for Tiled Roofs



U Value Options for Slated Roofs



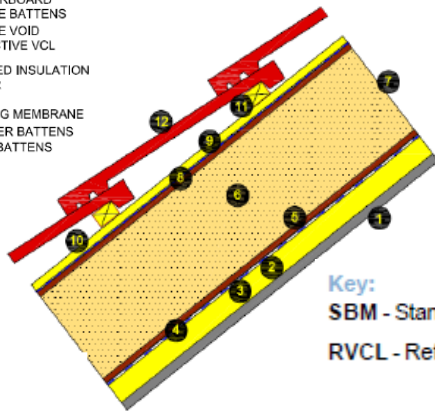
Roof

Rafter Size (mm)	Solid timber rafter with tiles (RT)				Solid timber rafter with slates (RS)			
	V140RT	V184RT	V220RT	V235RT	V140RS	V184RS	V220RS	V235RS
U-Value (W/m ² K)	0.19	0.15	0.13	0.12	0.19	0.15	0.13	0.12

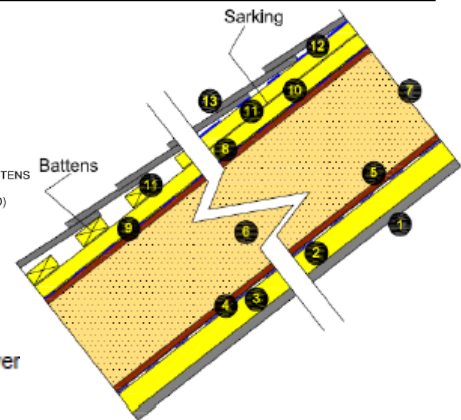
Roof

I-Rafter Size (mm)	I-rafter with tiles (IRT)			I-rafter with slates (IRS)		
	V220IRT	V245IRT	V300IRT	V220IRS	V245IRS	V300IRS
U-Value (W/m ² K)	0.12	0.11	0.09	0.12	0.11	0.09

- 1) PLASTERBOARD
- 2) SERVICE BATTENS
- 3) SERVICE VOID
- 4) REFLECTIVE VCL
- 5) OSB
- 6) INJECTED INSULATION
- 7) RAFTER
- 8) OSB
- 9) ROOFING MEMBRANE
- 10) COUNTER BATTENS
- 11) TILING BATTENS
- 12) TILES

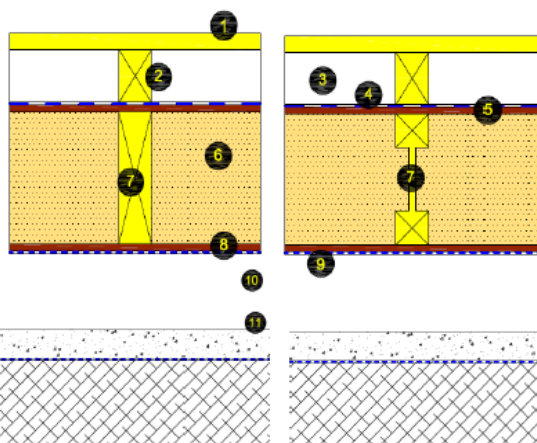


- 1) PLASTERBOARD
- 2) SERVICE BATTENS
- 3) SERVICE VOID
- 4) REFLECTIVE VCL
- 5) OSB
- 6) INJECTED INSULATION
- 7) RAFTER
- 8) OSB
- 9) ROOFING MEMBRANE
- 10) COUNTER BATTENS
- 11) SOFTWOOD SARKING/BATTENS
- 12) ROOFING MEMBRANE (WHERE SARKING IS USED)
- 13) SLATES



Key:
 SBM - Standard Breather Membrane
 RVCL - Reflective Vapour Control Layer

Val-U-Therm Floors



Up to 12m Clear Span for Schools, etc.



Crane Erection of Floor Panels

For further details, please contact:

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Joist Depth (mm)	Joist (J)			I-Joist (IJ)		
	V145J	V195J	V220J	V145IJ	V195IJ	V220IJ
U-Value (W/m ² K)	0.13	0.11	0.10	0.13	0.10	0.09

- 1) CHIPBOARD FLOORING
- 2) SERVICE BATTENS
- 3) SERVICE VOID
- 4) REFLECTIVE VCL
- 5) OSB
- 6) INJECTED INSULATION
- 7) JOIST
- 8) OSB
- 9) BREATHABLE MEMBRANE
- 10) VENTILATED VOID
- 11) SOLUM

