




GypWall QUIET

GypWall QUIET is a lightweight, non-loadbearing, acoustic stud or twin framed separating wall, often used in developments such as cinemas, theaters,

hotels, hospitals and schools where a high level of sound insulation performance is required to either meet or exceed design standards.



Partition thickness mm	Maximum height mm	Area	Fire performance EI mins	Acoustic performance Rw dB	Duty rating
142 - 251	5,700 - 7,500	Dry	60 - 120 	55 - 69 	Severe 

Application

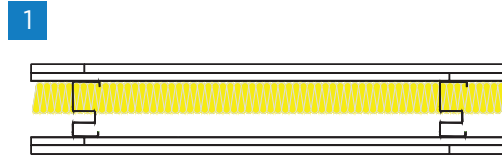
For applications that require high acoustic performance partition. Recommended for below sector

Sector

- ✓ Hotel
- ✓ Office
- ✓ Education
- ✓ Healthcare

VT V-Sound 90mm Studs - double layers board linings

Solutions to satisfy the requirements of BS EN 1364-1: 1999 & BS EN ISO 10140-2:2010



Double layers of board each side of VT V-Sound 90mm Stud at 610 mm centres. 50mm thick Glasswool 48kg/m³ in the cavity.

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m ²	Fire performance EI ** mins	Acoustic performance Rw *** dB	Duty rating ****
1	Gyproc Classic	142	2 x 12.5	5,700	41	60	55	Severe
1	Outer layer: Gyproc FireStop + inner layer: Gyproc Classic	142	1 x 12.5 1 x 12.5	5,700	42	60	56	Severe
1	Outer layer: Gyproc FireStop + inner layer: Gyproc Classic	147	1 x 15 1 x 12.5	5,700	44	120	56	Severe

Note:

* Based on a limiting deflection of L/240 at 200 Pa.

** EI: Fire Integrity and Insulation - refer to Basic Principle page 17

*** Rw: The Weighted Sound Reduction Index - refer to Basic Principle page 24

**** Duty rating: Partition grades by categories of duty - refer to Basic Principle page 27

The quoted performances are achieved only if the system comprises only genuine branded Saint-Gobain Vietnam components: Gyproc plasterboards, Vinh Tuong metal framings, Vinh Tuong accessories, Gyp-Filler Jointing Compound and any other materials specified in the tested systems.

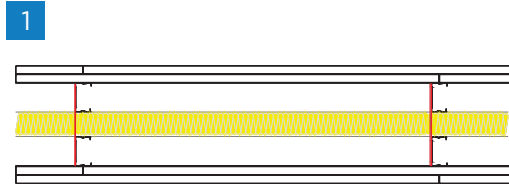
Application

Room to room - Hotel, School (class room), Hospital
Meeting room - Office




GypWall QUIET performance

Twin frame VT V-Wall C51mm Studs with cross braces - double layers board linings

Solutions to satisfy the requirements of BS EN 1364-1: 1999 & BS EN ISO 10140-2:2010



Double layers of board each side of Twin frame VT V-Wall C51mm studs at 610mm centres. 50mm thick Glasswool 24kg/m³ in the cavity.

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m ²	Fire performance EI ** mins	Acoustic performance R _w *** dB	Duty rating ****
1	Gyproc FireStop	200	2 x 12.5	7,500	44	120 	58 	Severe 
1	Gyproc FireStop	220	2 x 15	7,500	54	120	60	Severe

Note:

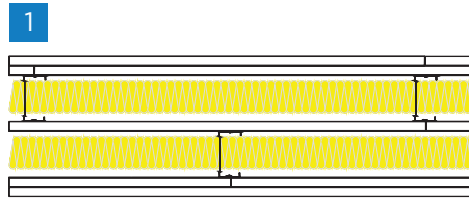
* Based on a limiting deflection of L/240 at 200 Pa.
 ** EI: Fire Integrity and Insulation - refer to Basic Principle page 17
 *** R_w: The Weighted Sound Reduction Index - refer to Basic Principle page 24
 **** Duty rating: Partition grades by categories of duty - refer to Basic Principle page 27
 The quoted performances are achieved only if the system comprises only genuine branded Saint-Gobain Vietnam components: Gyproc plasterboards, Vinh Tuong metal framings, Vinh Tuong accessories, Gyp-Filler Jointing Compound and any other materials specified in the tested systems.

Application

Room to room - Hotel
 School (classroom), Hospital

Twin frame VT V-Wall C75mm Studs - double layers board linings-core layer (no braces)

Solutions to satisfy the requirements of BS EN 1364-1: 1999 & BS EN ISO 10140-2:2010



Double layers board to both side of twin frame VT V-Wall C75mm Stud
a single layer board forming a central core, with one layer
of Glasswool insulation 50mm, density of 48kg/m³ in each cavity

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m ²	Fire performance EI ** mins	Acoustic performance R _w *** dB	Duty rating ****
1	Both sides: Gyproc Classic	227	2 x 15	7.500	57	60	68	Severe
	Core layer: Gyproc Classic		1 x 15					

Note:

* Based on a limiting deflection of L/240 at 200 Pa.

** EI: Fire Integrity and Insulation - refer to Basic Principle page 17

*** R_w: The Weighted Sound Reduction Index - refer to Basic Principle page 24

**** Duty rating: Partition grades by categories of duty - refer to Basic Principle page 27

The quoted performances are achieved only if the system comprises only genuine branded Saint-Gobain Vietnam components: Gyproc plasterboards, Vinh Tuong metal framings, Vinh Tuong accessories, Gyp-Filler Jointing Compound and any other materials specified in the tested systems.

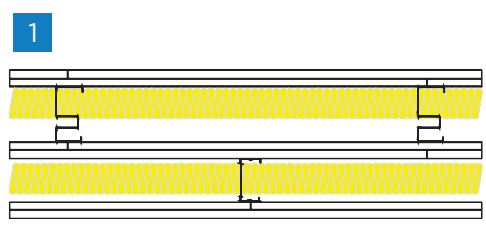
Application

This system is recommended for cinema wall

GypWall QUIET performance

VT V-Wall C75mm + V-Sound 90mm Studs - double layers board linings - core layer (no braces)

Solutions to satisfy the requirements of BS EN 1364-1: 1999 & BS EN ISO 10140-2:2010



Double layers board to both sides of twin frame VT V-Sound 90 and VT V-Wall C75 studs, and double layers board forming a central core, with one layer of Glasswool insulation 50mm, density of 48kg/m³ in each cavity

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m ²	Fire performance EI ** mins	Acoustic performance Rw *** dB	Duty rating ****
1	Both sides: Gyproc Classic (inner) + Gyproc FireStop (outer)	251	1 x 12.5 1 x 15	7.500	67	120	69	Severe
	Core layer: Gyproc Classic + Gyproc FireStop		1 x 12.5 1 x 15					

Note:
 * Based on a limiting deflection of L/240 at 200 Pa.
 ** EI: Fire Integrity and Insulation - refer to Basic Principle page 17
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 **** Duty rating: Partition grades by categories of duty - refer to Basic Principle page 27
 The quoted performances are achieved only if the system comprises only genuine branded Saint-Gobain Vietnam components: Gyproc plasterboards, Vinh Tuong metal framings, Vinh Tuong accessories, Gyp-Filler Jointing Compound and any other materials specified in the tested systems.

Application
 This system is recommended for cinema wall

System components

Metal frame products



VT V-Wall
C51/C75



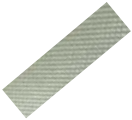
VT V-Sound 90



VT V-Wall
U52/U76/U92

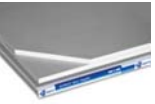


VT Corner Bead

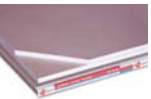


VT Flat Strap

Board products



Gyproc Classic
12.5mm/ 15mm



Gyproc FireStop
12.5mm/ 15mm

Fixing and Finishing Products



VT Wafer Head Screw



VT Drywall Screw



Hilti Sealant CP 606



Gyp-Filler
Jointing Compound



VT Paper Tape



Expansion Bolt

Insulation products



Glasswool
24kg/m³ and 48kg/m³

Installation overview



Appropriate VT V-Wall 'U' Tracks are suitably fixed to the floor and soffit. VT V-Wall 'C' Studs / VT V-Sound Studs are suitably fixed to abutments then fixed to the 'U' Track at both head and base, at required centres.

The 'C' Studs / V-Sound Studs are fixed so as to face the same direction. For a twin frame structure, the two frameworks are braced with VT Flat Straps, fixed to the VT V-Wall 'C' Studs using VT Wafer Head Screw. Apply Hilti sealant CP 606 to frame perimeters to provide optimum acoustical and fire performances.

Door openings are constructed to suit the width of door. Extra studs should be provided at openings, corners. Overboard the opening and then cut out to avoid joint directly in line with door jambs.

M&E services can be located within the partition cavity. The insulation shall be added to the partition cavity for increasing acoustic performance. All are normally installed after one side is boarded.

To obtain the optimum acoustic & fire performance, air tightness is essential. Board compensation and an insulation material need to be installed at back of socket boxes.

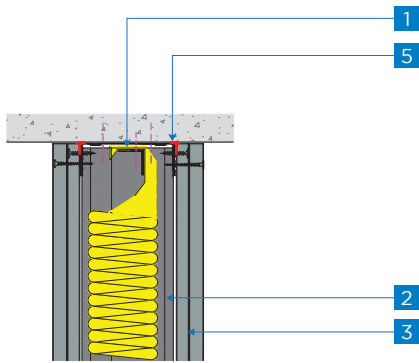
Use appropriate non-combustible material for electric conduit, sockets, or appropriate treatment by M&E contractor.

Fixed Gyproc plasterboards to a metal framework using VT Drywall Screws. For double layer board lining, the outer layer will be assembled so that subsequent horizontal and vertical joints are staggered. Horizontal board joints should be backed with VT Flat Strap.

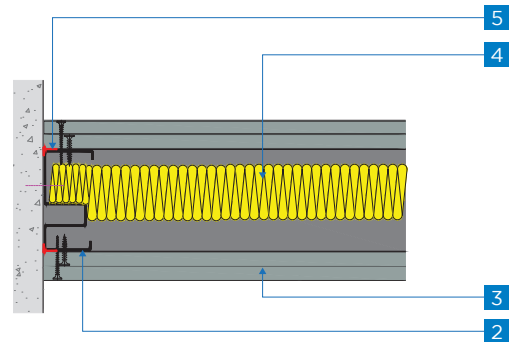
Seal any gaps up to 5mm with Hilti Sealant CP 606 or gaps up to 10mm (as maximum) with Gyp-Filler Jointing Compound.

For core layer (no braces) system and full installation details, please refer to the Site Book.

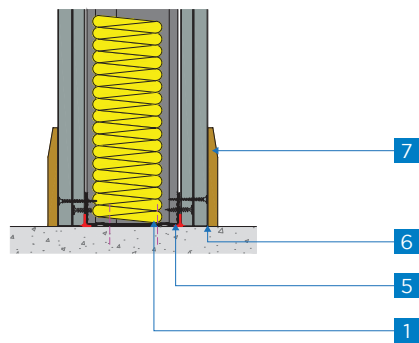
1 Head - V sound



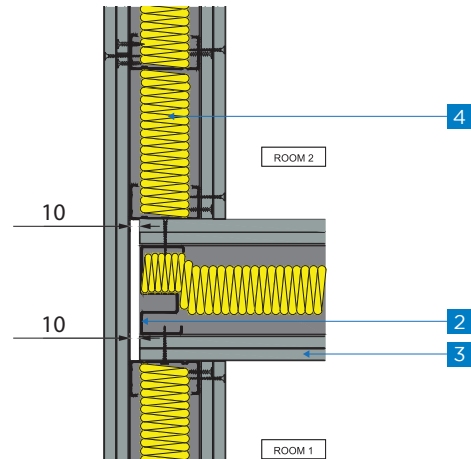
Wall abutment - V sound 2



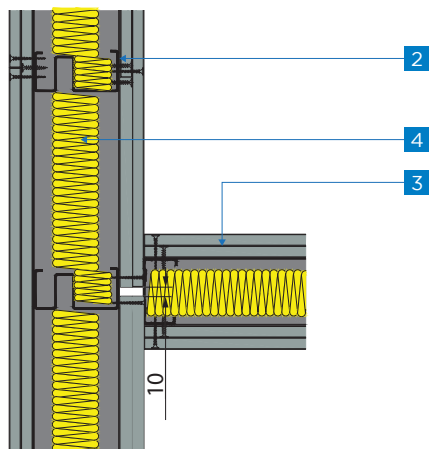
3 Base-V sound



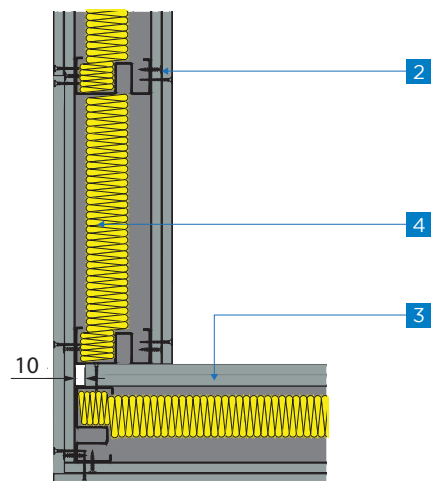
When partition with lower acoustic performance abuts partition with higher acoustic performance-V sound 4



5 T Junction to optimise acoustic performance and reduce flanking sound transmission-V sound



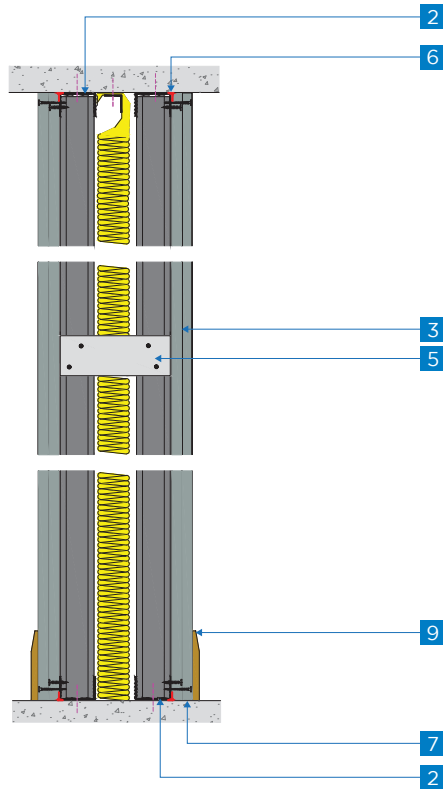
Corner-V sound 6



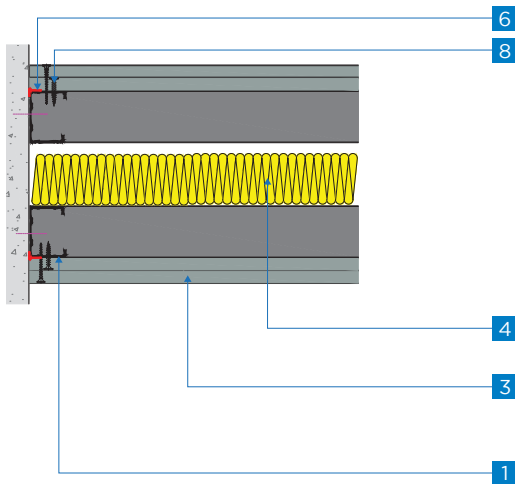
- 1 VT V-Wall 'U' track
- 2 VT V Sound Stud
- 3 Gyproc Plasterboard
- 4 Glasswool
- 5 Hilti Sealant CP-606
- 6 Bulk Fill Gyp-Filler Jointing Compound

- 7 Skirting (By other)
- 8 VT Drywall Screw

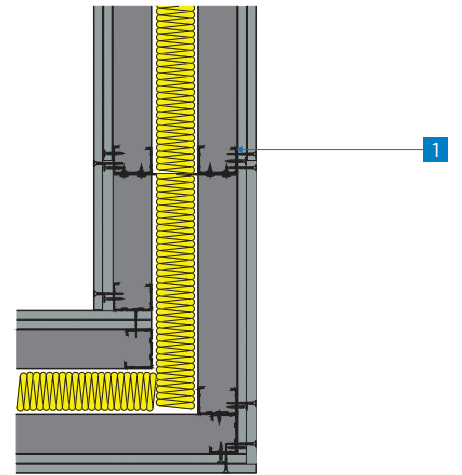
7 Head & Base - Twin frame with cross bar



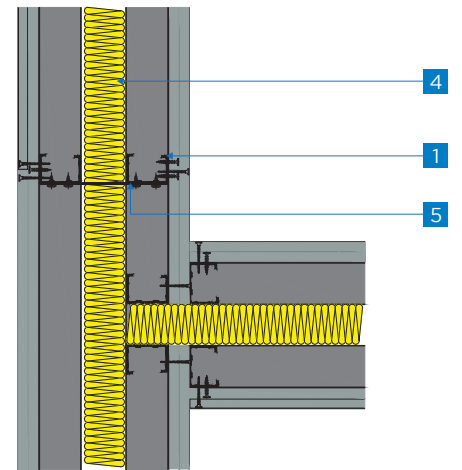
8 Wall abutment - Twin frame with cross bar



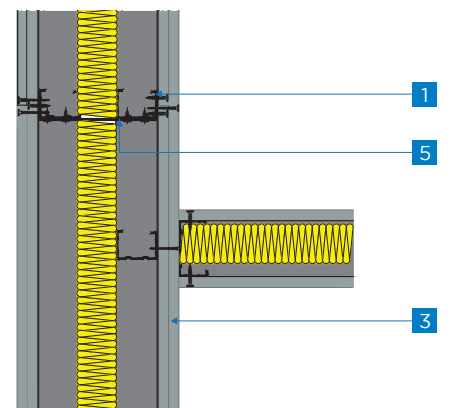
Corner - Twin frame with cross bar



T Junction - Twin frame with cross bar



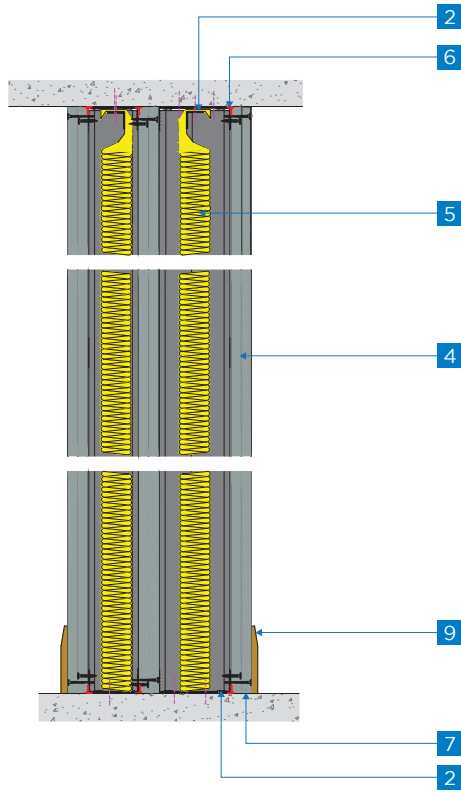
T Junction when partition with higher acoustic performance abuts a partition with lower acoustic performance - Twin frame with cross bar



- 1 VT V-Wall 'C' Stud
- 2 VT V-Wall 'U' track
- 3 Gyproc Plasterboard
- 4 Glasswool
- 5 VT Flat Strap
- 6 Hilti Sealant CP-606

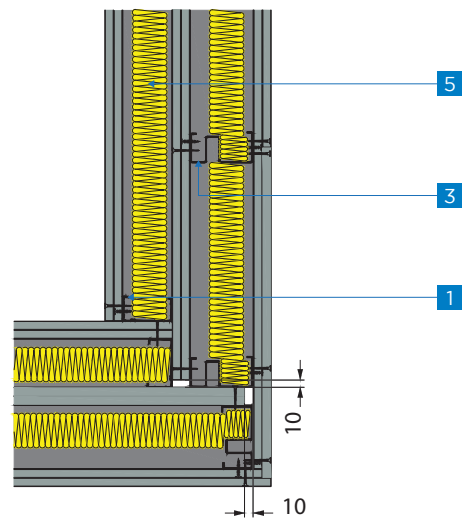
- 7 Bulk Fill Gyp-Filler Jointing Compound (where gap exceeds 5mm)
- 8 VT Drywall Screw
- 9 Skirting (By other)

12 Head & Base - Twin frame with core layer



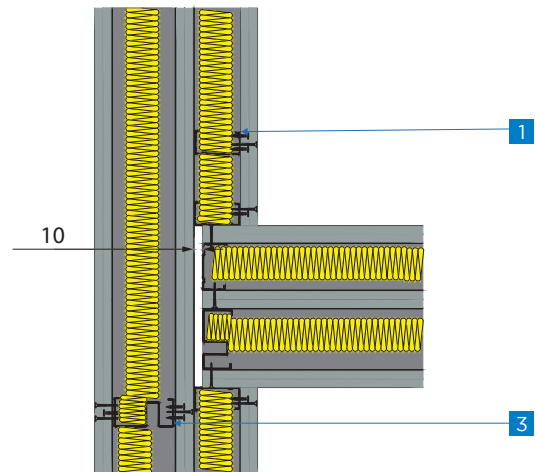
Corner - Twin frame with core layer

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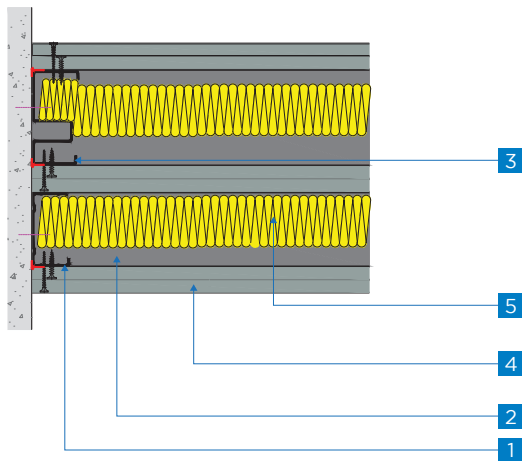


T Junction - Twin frame with core layer

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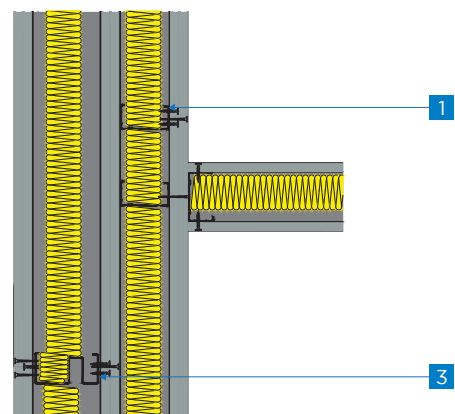


13 Wall abutment - Twin frame with core layer



T Junction when partition with higher acoustic performance abuts a partition with lower acoustic performance - Twin frame with core layer

16



- 1 VT V-Wall 'C' Stud
- 2 VT V-Wall 'U' track
- 3 VT V Sound Stud
- 4 Gyproc Plasterboard
- 5 Glasswool
- 6 Hilti Sealant CP-606

- 7 Bulk Fill Gyp-Filler Jointing Compound (where gap exceeds 5mm)
- 8 VT Drywall Screw
- 9 Skirting (By other)

17 Board layout

