GypWall SAFE

GypWall SAFE is a robust but lightweight, non-loadbearing security wall, offering high resistance to determined attack using hand tools, making it ideal for divider walls between apartments or areas that require higher level of security.

Partition thickness mm	Maximum height mm	Area	Fire performance EI mins	Acoustic performance Rw dB	Duty rating
127-142	4,600-5,700	Dry	60	50	Severe

Application

GypWall SAFE can be used in a wide range of applications, for example partition wall between apartments, corridor... where security and robust are required.

Sector

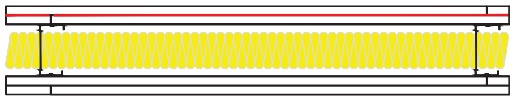
✓Residential

✓Retail

VT V - Wall C75mm Studs - double layers board linings

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

1

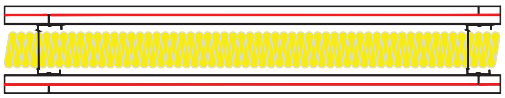


Double layers of board each side of VT V-Wall C75mm studs at 610mm centres and one layer of 0.48mm galvanized steel sheet between 2 layers in one side 50mm thick Glasswool 24kg/m³ in the cavity.

Side 1

Side 2

2



Double layers of board each side of VT V-Wall C75mm studs at 610mm centres and one layer of 0.48mm galvanized steel sheet between 2 layers in both sides 50mm thick Glasswool 24kg/m³ in the cavity.

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m²	Fire performance EI ** mins	Sound insulation Rw *** dB	Duty rating ****
1	Gyproc Classic + steel sheet	127	2 x 12.5	4,600	41	60	50	Severe
2	Gyproc Classic + steel sheet	127	2 x 12.5	4,600	41	60	50	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.

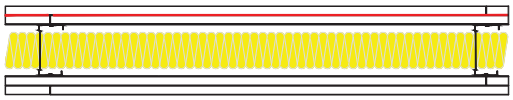
Application

Apartment divider– Residential

VT V - Wall C90mm Studs - double layers board linings

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

1

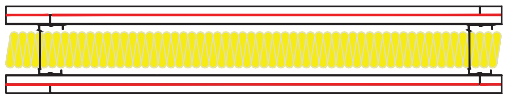


Double layers of board each side of VT V-Wall C90mm studs at 610mm centres and one layer of 0.48mm galvanized steel sheet between 2 layers in one side 50mm thick Glasswool 24kg/m³ in the cavity.

2

Side 1

Side 2



Double layers of board each side of VT V-Wall C90mm studs at 610mm centres and one layer of 0.48mm galvanized steel sheet between 2 layers in both sides 50mm thick Glasswool 24kg/m³ in the cavity.

Detail	Board type	Partition thickness mm	Lining thickness mm	Maximum height * mm	Approx. weight kg/m²	Fire performance EI ** mins	Sound insulation Rw *** dB	Duty rating ****
1	Gyproc Classic + steel sheet	142	2 x 12.5	5,700	41	60	50	Severe
2	Gyproc Classic + steel sheet	142	2 x 12.5	5,700	41	60	50	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

Apartment divider– Residential

System components

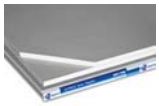
Metal frame products

VT V-Wall
C75/C90

VT V-Wall
U76/U92

VT Corner Bead

Board products



Gyproc Classic
12.5mm/15mm

Fixing and Finishing products

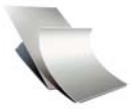
VT Wafer Head Screw

VT Drywall Screw

VT Jack - Point Screw

Hilti Sealant CP 606

Gyp-Filler
Jointing Compound



Galvanized
Steel Sheet 0.48mm

VT Paper Tape

Expansion Bolt

Insulation product

Glasswool 24kg/m^3

Installation overview

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

The studs are fixed so as to face the same direction. Apply Hilti sealant CP 606 to frame perimeters to provide optimum acoustical and fire performance.

Door openings are constructed to suit the width of door. Extra studs should be provided at openings, and 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.

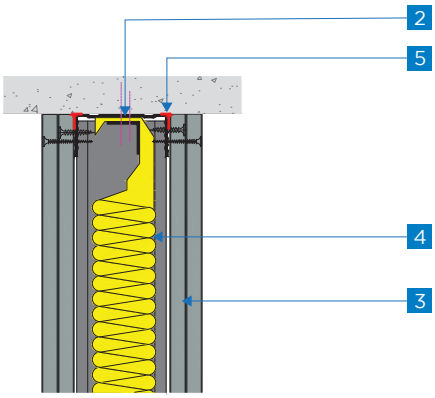
Fixed Gyproc plasterboards to a metal framework using VT Drywall Screws. For double layer board lining, the outer layer will be assembled so that subsequent horizontal and vertical joints are staggered. The security metal sheet will be cut to appropriate length and installed between two layers of boards.

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

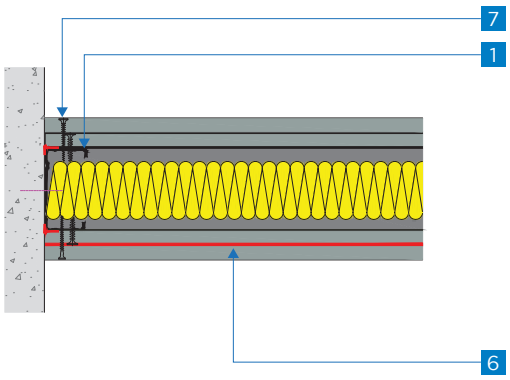
For full installation details, please refer to the Site Book.

Construction details

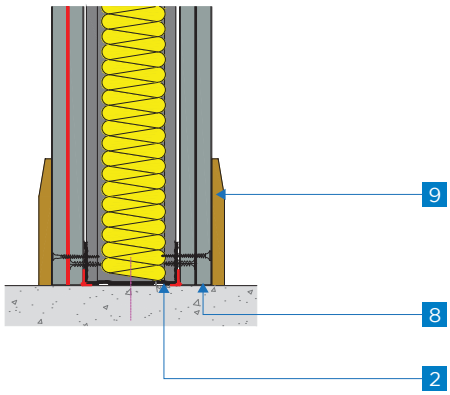
1 Head - double layers



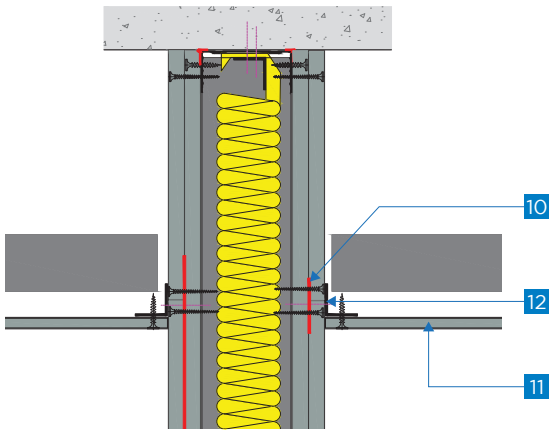
Wall abutment - double layers 2



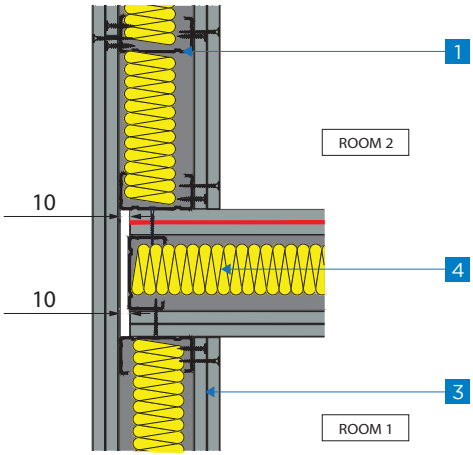
3 Base - double layers



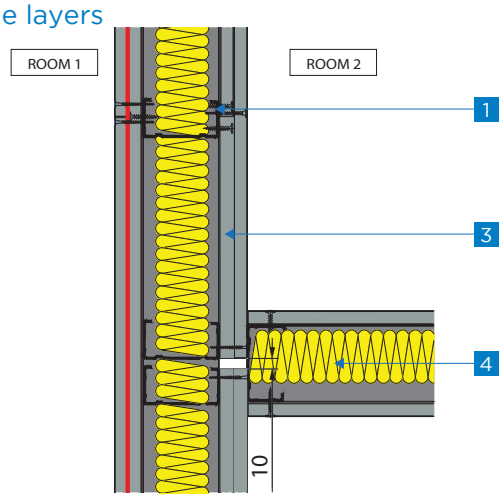
Sofit abutment - double layers 4



5 T Juction when partition with higher acoustic performance abuts a partition with lower acoustic performance - double layers



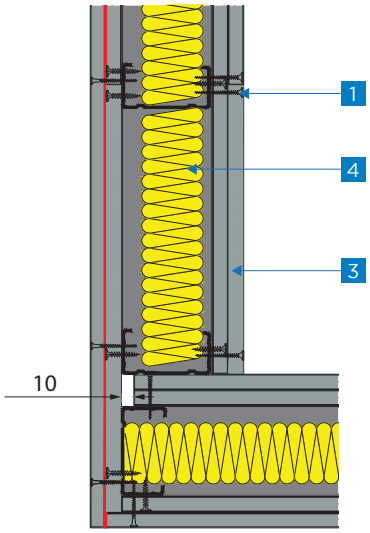
T juction to optimise acoustic performance and reduce flanking sound transmission - double layers 6



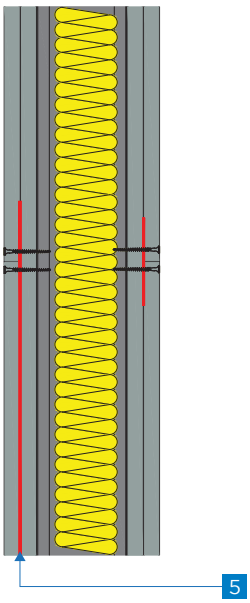
1 VT V-Wall 'C' Stud
2 VT V-Wall 'U' track
3 Gyproc Plasterboard
4 Glasswool 50mm thick
5 Hilti Sealant CP-606
6 Steel Sheet
7 VT Drywall Screw
8 Bulk Fill Gyp-Filler Jointing Compound
9 Skirting (By other)
10 VT Flat strap
11 Gyproc plasterboard (ceiling)
12 Wall Angle VTC 18/22

Construction details

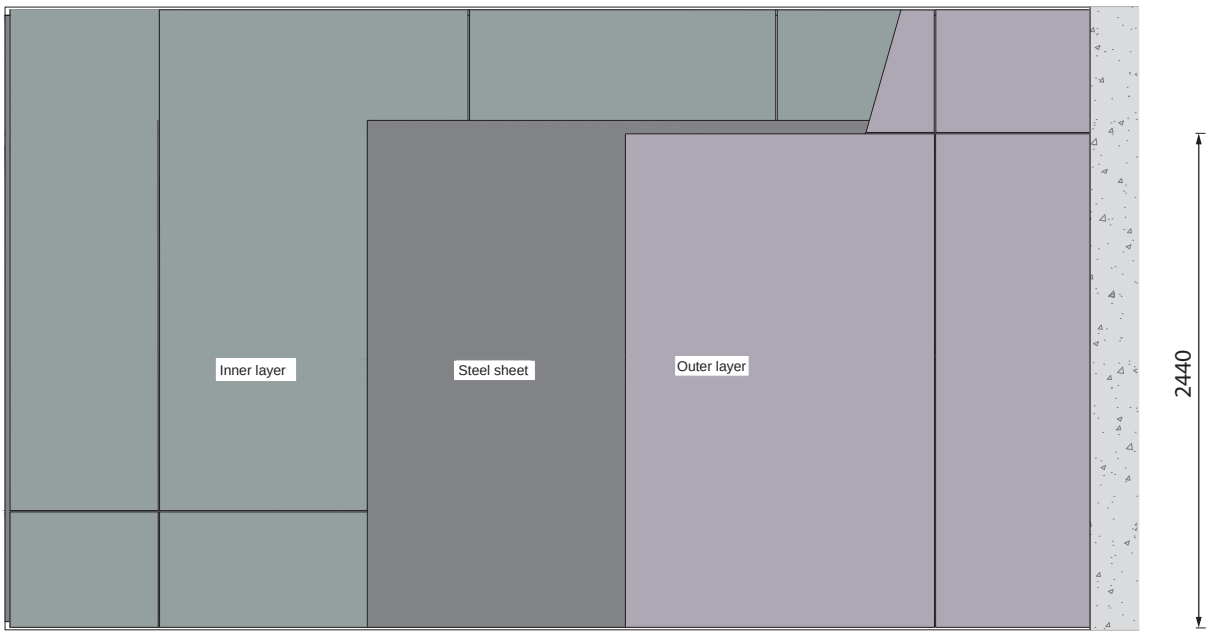
7 Corner - double layers



8 Horizontal board joints - double layers



9 Board layout



1 VT V-Wall 'C' Stud
2 VT V-Wall 'U' Track
3 Gyproc Plasterboard
4 Glasswool
5 Steel Sheet