Timber stud walls

CELLECTA composite acoustic wall lining
Suitable for new and existing timber stud walls
Acoustic treatment indirectly fixed to timber studs

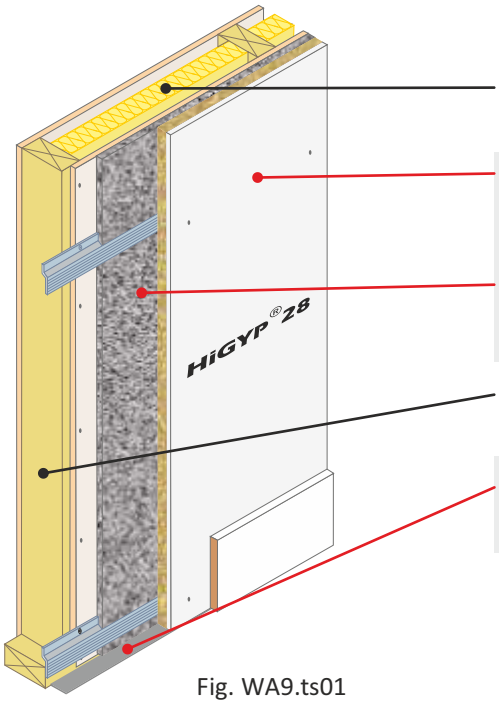


Fig. WA9.ts01

Absorbing material (existing)	25mm (min) - 50mm (max) mineral wool (10 - 45kg/m^3) between studs
Wall treatment	CELLECTA **HiGYP 28** fixed to 16mm resilient bars set at 600mm (max) centres (See Table 8TS.01 for options)
Sound absorbing material	15mm CELLECTA **FIBRE*fon* Micro15** fitted between resilient bars
Timber stud wall (existing)	89mm (min) x 38mm timber stud wall set at 600mm (max) centres
Perimeter flanking strip	CELLECTA **C-strip** self-adhesive acoustic foam strip

Table WA9.ts01

Installation Options

(1) **HiGYP 28** High performance, acoustic lining board
Dimensions: 28mm x 1200mm x 2400mm
Weight: 17.50kg/m² / 50.11kg/sheet

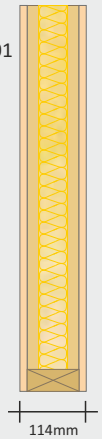
(2) **FIBRE*fon* 15** Sound absorber
Dimensions: 15mm x 600mm x 1200mm

(3) **CELLECTA C-strip** Perimeter flanking strip
Dimensions: 5mm x 75mm x 10m

Timber stud wall

89mm x 38mm timber studs at 600mm centres 25-50mm mineral wool fitted in between studs. 12.5mm plasterboard (8kg/m^2) fixed to both sides.

Fig. WA9.ts01

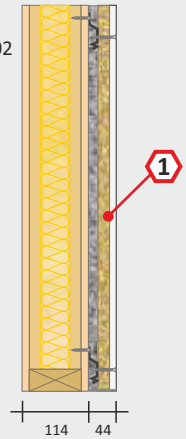


Airborne
40dB R_w
35dB $R_w + C_{tr}$

One face lined (opt.1)

HiGYP 28 fixed to resilient bars set at 600mm (max) centres fixed to one face of the existing timber stud wall. Cavity filled with **FIBRE*fon* Micro 15**.

Fig. WA9.ts02

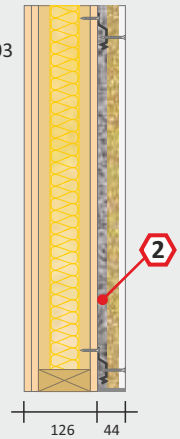


Airborne
54dB R_w
45dB $R_w + C_{tr}$
D +14dB[1]

One face lined (opt.2)

HiGYP 28 fixed to resilient bars set at 600mm (max) centres fixed to one face of the existing timber stud wall. Cavity filled with **FIBRE*fon* Micro 15.** + Additional 12.5mm plasterboard to one face.

Fig. WA9.ts03



Airborne
56dB R_w
49dB $R_w + C_{tr}$
D +16dB[1]

Lined both sides

HiGYP 28 fixed to resilient bars set at 600mm (max) centres on both sides of the timber stud. **FIBRE*fon* Micro 50** fitted between studs.

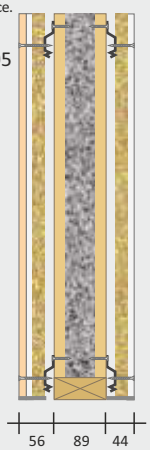
Fig. WA9.ts04

Airborne
58dB R_w
49dB $R_w + C_{tr}$
D +18dB[1]

Lined both sides

HiGYP 28 fixed to resilient bars set at 600mm (max) centres on both sides of the timber stud. **FIBRE*fon* Micro 50** fitted between studs. + Additional 12.5mm plasterboard to one face.

Fig. WA9.ts05



Airborne
60dB R_w
52dB $R_w + C_{tr}$
D +20dB[1]

Acoustic Performance

Acoustic data quoted was achieved at Sound Research Laboratories, Sudbury, UKAS ref. 0444.
Airborne results tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997.
[1] dB (R_w) improvement over timber stud base wall
R_w value suitable for partition wall applications
$R_w + C_{tr}$ value suitable for separating wall applications

Note. Professional advice should be sort to ensure the overall wall construction complies with current fire regulations.

Third Party Accreditation and Approvals

SRL Performance Tested

BMTRADA ISO 9001: 2004

Environmental Credentials

GWP <5

100% Recyclable Quilt

zero ODP

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