

Timber stud walls

CELLECTA HiGYP® 28 composite acoustic wall lining
 Suitable for new and existing timber stud walls
 Acoustic treatment indirectly fixed to timber studs

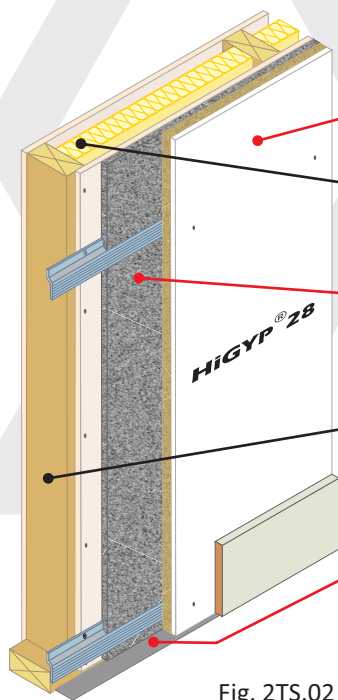


Fig. 2TS.02

Wall treatment	CELLECTA HiGYP® 28 fixed to 16mm resilient bars set at 600mm (max) centres (See Table 2TS.01 for options)
Sound absorbing material	25mm (min) - 50mm (max) mineral wool (10 - 45kg/m ³) between studs
Sound absorbing material	15mm CELLECTA FIBREfon® Micro 15 fitted between resilient bars
Timber stud wall	89mm (min) x 38mm timber stud wall, set at 600mm (max) centres
Perimeter flanking strip	5mm CELLECTA C-strip self-adhesive acoustic foam strip



Table 2TS.01

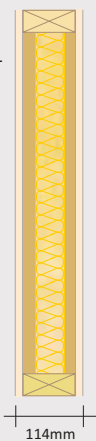
Installation Options

- 1** **HiGYP® 28** High performance, acoustic lining board
 Dimensions: 28mm x 1200mm x 2400mm
 Weight: 18.84kg/m² / 54.26kg/sheet
- 2** **FIBREfon® Micro 15** Non-itch sound deadening quilt
 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/m²) fixed to both sides.

Fig. 2TS.01

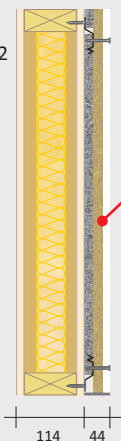


Airborne
40dB R_w
35dB R_w + C_{tr}

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 FIBREfon Micro 15.

Fig. 2TS.02

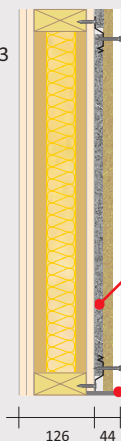


Airborne
54dB R_w
45dB R_w + C_{tr}
Δ +14dB⁽¹⁾

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 FIBREfon Micro 15. + Additional 12.5mm plasterboard on one face.

Fig. 2TS.03



Airborne
56dB R_w
49dB R_w + C_{tr}
Δ +16dB⁽¹⁾

Lined both sides

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

Fig. 2TS.04



Airborne
58dB R_w
49dB R_w + C_{tr}
Δ +18dB⁽¹⁾

Lined both sides

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

Fig. 2TS.05



Airborne
60dB R_w
52dB R_w + C_{tr}
Δ +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 sought to ensure the overall wall construction complies with current fire regulations.

Third Party Accreditation and Approvals Environmental Credentials

