Solid masonry wall

CELLECTA composite acoustic wall lining
Suitable for new and existing solid aircrete and aggregate block walls

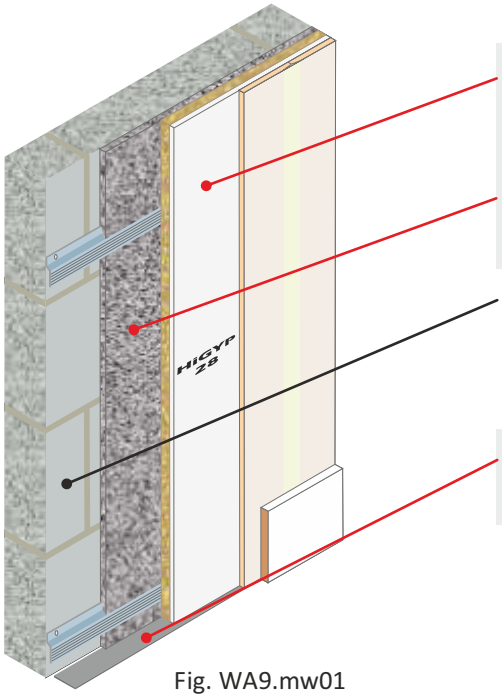


Fig. WA9.mw01

Wall treatment	CELLECTA **HiGYP 28** fixed to 16mm resilient bars set at 600mm (max) centres (See Table 8MW.01 for options)
Sound absorbing material	15mm CELLECTA **FIBRE*fon* Micro15** fitted between resilient bars
Masonry wall	• 100mm (min) aircrete block (600kg/m^3) • 100mm (min) aggregate block (1350 - 2300kg/m^3) - open-faced side sealed with a 13mm parge coat (min 10kg/m^2)
Perimeter flanking strip	CELLECTA **C-strip** self-adhesive acoustic foam strip

Table WA9.mw.01

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

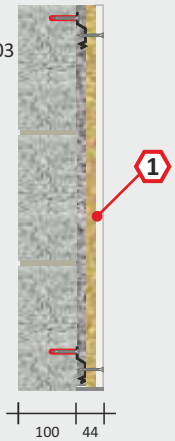
Solid masonry wall
(without any wall treatment)

Fig. WA9.mw02

Airborne
40dB R_w
37dB $R_w + C_{tr}$

One face lined (opt.1)
HiGYP 28 fixed to resilient bars at 600mm centres.
Cavity filled with **FIBRE*fon* Micro 15**.

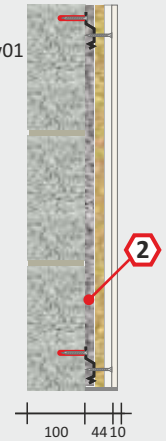
Fig. WA9.mw03



Airborne
55dB R_w
48dB $R_w + C_{tr}$
D +11dB[1]

One face lined (opt.2)
HiGYP 28 fixed to resilient bars at 600mm centres, covered with 9.7mm plasterboard, taped and jointed or skimmed.
Cavity filled with **FIBRE*fon* Micro 15**.

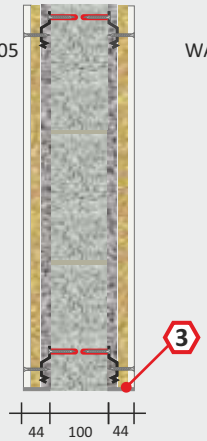
Fig. WA9.mw01



Airborne
57dB R_w
50dB $R_w + C_{tr}$
D +13dB[1]

Both faces lined
HiGYP 28 fixed to resilient bars set at 600mm centres on both sides of the wall.
Cavities filled with **FIBRE*fon* Micro 15**.

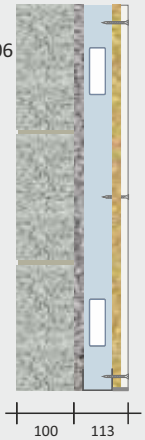
Fig. WA9.mw05



Airborne
59dB R_w
51dB $R_w + C_{tr}$
D +14dB[1]

Independent wall lining:
HiGYP 28 fixed to 48mm metal frame, set 15mm off existing wall.
Cavity filled with **FIBRE*fon* Micro15**.

Fig. WA9.mw06



Airborne
58dB R_w
53dB $R_w + C_{tr}$
D +16dB[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+C_{tr}) improvement over solid masonry base wall
R_w value suitable for partition wall applications
$R_w + C_u$ value suitable for separating wall applications

Third Party Accreditation and Approvals

SRL Performace Tested

BMTRADA ISO 9001

ISO 9001: 2004

Environmental Credentials

GWP <5

100% Recyclable Quilt

zero ODP

01634 29-66-77 cellecta.co.uk technical@cellecta.co.uk