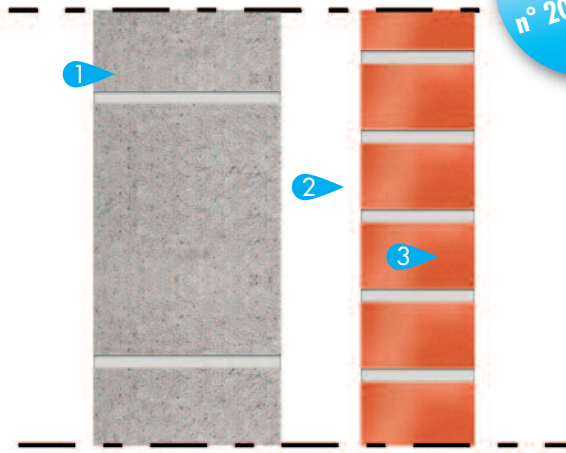


System Cavity Wall

1 Cavity Wall - Empty cavity

Test report
n° 2013/6255



- 1 Internal veneer - concrete block - 14 cm
- 2 Cavity - 6 cm
- 3 External veneer - bricks 8,5 cm

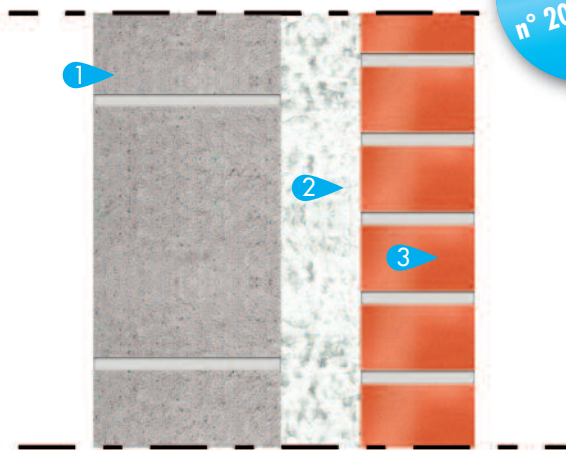
Total thickness of the wall : 285 mm

Sound Reduction Index :

Rw 52 (-1 ; -3)

2 Cavity Wall - Supafil

Test report
n° 2013/6256



- 1 Internal veneer - concrete block - 14 cm
- 2 Blown insulation - Supafil Cavity Wall 034
- density 35kg/m³ - 6 cm
- 3 External veneer - bricks 8,5 cm

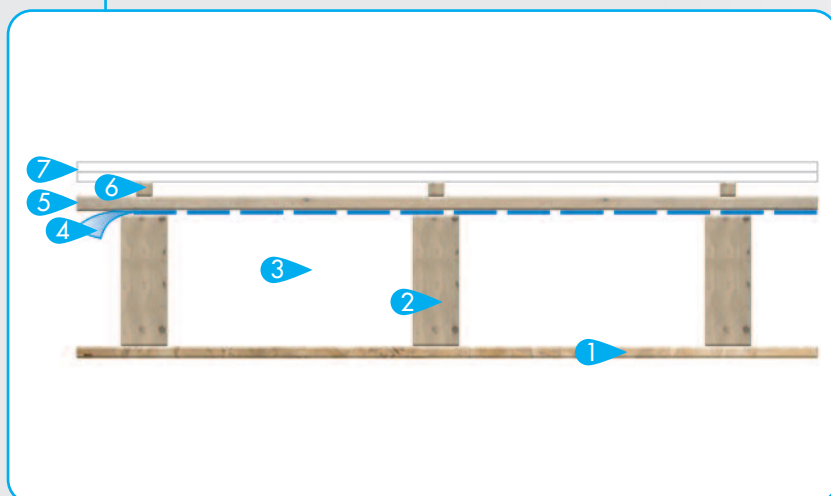
Total thickness of the wall : 285 mm

Sound Reduction Index :

Rw 54 (-1 ; -4)

System Timber Frame Wall

1 Empty cavity



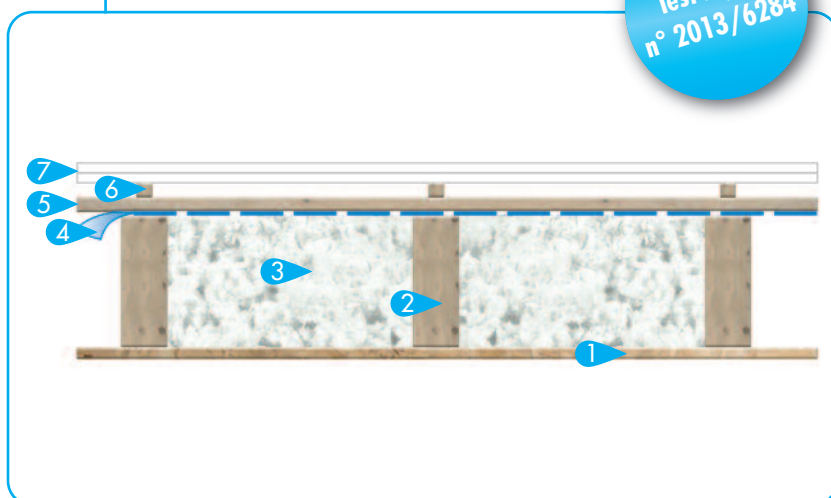
- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Empty cavity - 180 mm
- 4 Vapor Control Layer
- 5 6 Secondary wood structure - 2x27 mm
- 7 Standard Type A Gypsum board -
2x12,5 mm

Total thickness of the wall : 274 mm

Sound Reduction Index :
Rw 44 (-2 ; -8)

2 Blowing Wool (Supafil)

Test report
n° 2013/6284



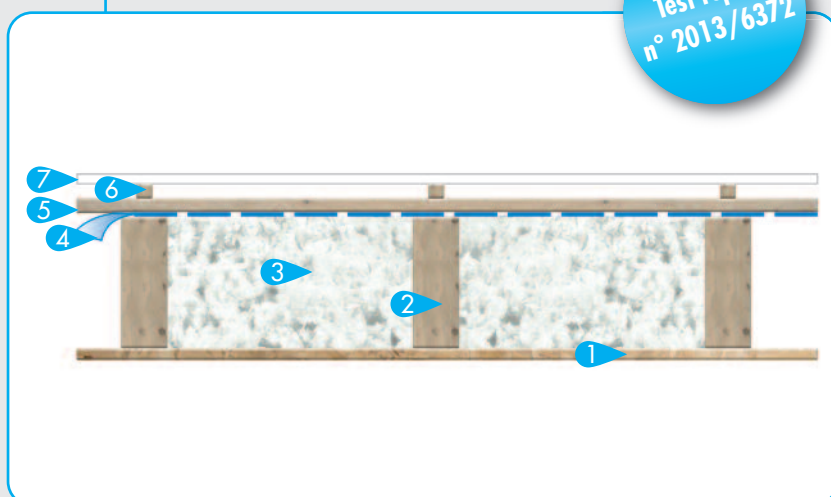
- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 6 Secondary wood structure - 2x27 mm
- 7 Standard Type A Gypsum board -
2x12,5 mm

Total thickness of the wall : 274 mm

Sound Reduction Index :
Rw 48 (-4 ; -10)

3 Blowing Wool (Supafil)

Test report
n° 2013/6372



- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 6 Secondary wood structure - 2x27 mm
- 7 Standard Type A Gypsum board -
1x12,5 mm

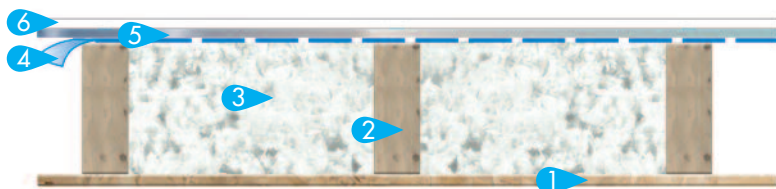
Total thickness of the wall : 262 mm

Sound Reduction Index :
Rw 44 (-4 ; -10)

System Timber Frame Wall

4 Blowing Wool (Supafil)

Test report
n° 2014/6417



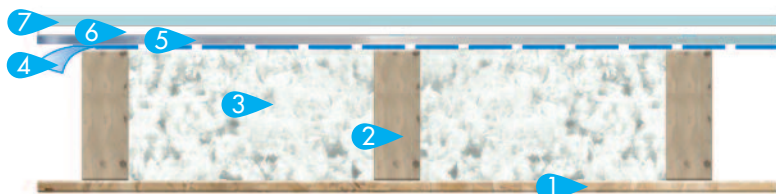
- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 Acoustical Metal furring channel
60/27/0,6 - 27 mm
- 6 Standard Type A Gypsum board -
1x12,5 mm

Total thickness of the wall : 235 mm

Sound Reduction Index :
Rw 45 (-3 ; -9)

5 Blowing Wool (Supafil)

Test report
n° 2014/6418

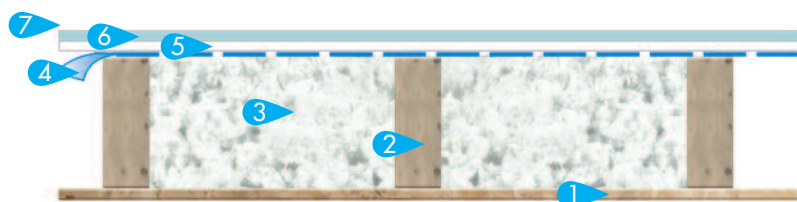


- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber frame - den-
sity 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 Acoustical Metal furring channel
60/27/0,6 - 27 mm
- 6 Standard Type A Gypsum board -
1x12,5 mm
- 7 Diamond board - 1x12,5 mm

Total thickness of the wall : 247 mm

Sound Reduction Index :
Rw 52 (-3 ; -9)

6 Blowing Wool (Supafil)



- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 Standard Type A Gypsum board -
2x12,5 mm
- 6 Diamond board - 1x12,5 mm

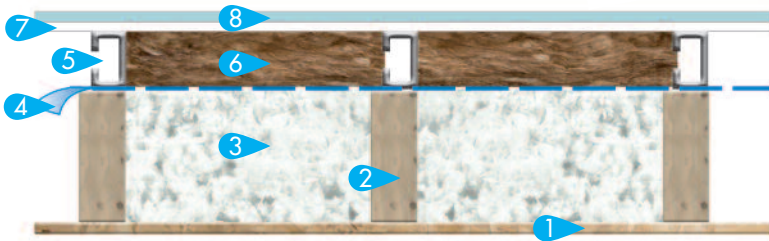
Total thickness of the wall : 220 mm

Sound Reduction Index :
Rw 48 (-3 ; -10)

System Timber Frame Wall

7 Blowing Wool (Supafil) + Glass Mineral Wool (Panel)

Test report
n° 2014/6419



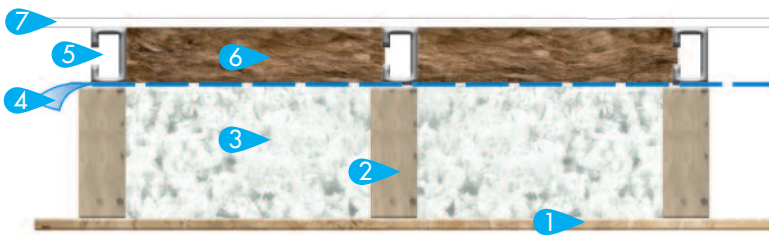
- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 Uncoupled inside wall lining - Metal Stud
70/50/0,6 - 70 mm
- 6 Glass Mineral wool with
ECOSE® Technology $\lambda = 0,035 \text{ W}/(\text{m.K})$ -
60 mm
- 7 Standard Type A Gypsum board -
1x12,5 mm
- 8 Diamond board - 1x12,5 mm

Total thickness of the wall : 290 mm

Sound Reduction Index :
Rw 61 (-4 ; -11)

8 Blowing Wool (Supafil) + Glass Mineral Wool (Panel)

Test report
n° 2014/6420



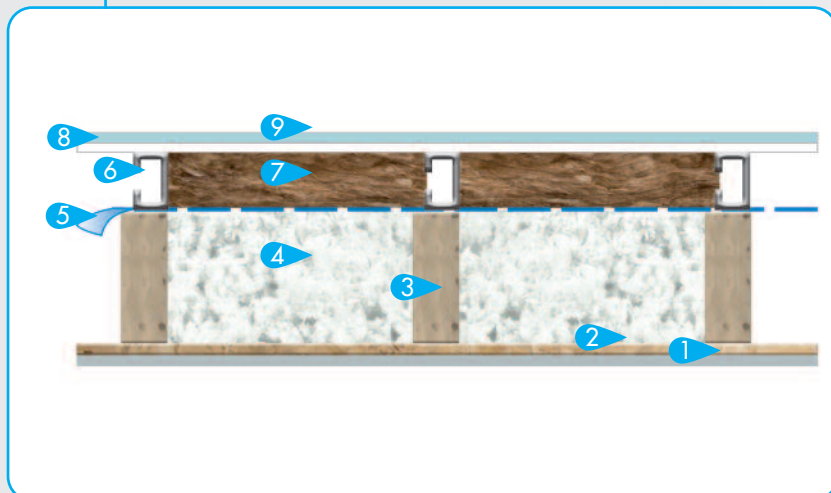
- 1 External Sheathing - OSB panel 15 mm
- 2 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 3 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 4 Vapor Control Layer
- 5 Uncoupled inside wall lining - Metal Stud
70/50/0,6 - 70 mm
- 6 Glass Mineral wool with
ECOSE® Technology $\lambda = 0,035 \text{ W}/(\text{m.K})$ -
60 mm
- 7 Standard Type A Gypsum board -
1x12,5 mm

Total thickness of the wall : 278 mm

Sound Reduction Index :
Rw 53 (-4 ; -11)

System Timber Frame Wall

9 Blowing Wool (Supafil) + Glass Mineral Wool (Panel)



- 1 Aquapanel® outdoor - 12,5 mm
- 2 External Sheathing - OSB panel 15 mm
- 3 Wood studs - height 180 mm
centre-to-centre distance 600 mm
- 4 Blowing wool - Supafil Timber Frame -
density 35 kg/m³ - 180 mm
- 5 Vapor Control Layer
- 6 Uncoupled inside wall lining - Metal Stud
70/50/0,6 - 70 mm
- 7 Glass Mineral wool with
ECOSE® Technology $\lambda = 0,035 \text{ W}/(\text{m.K})$ -
60 mm
- 8 Standard Type A Gypsum board -
1x12,5 mm
- 9 Diamond board - 1x12,5 mm

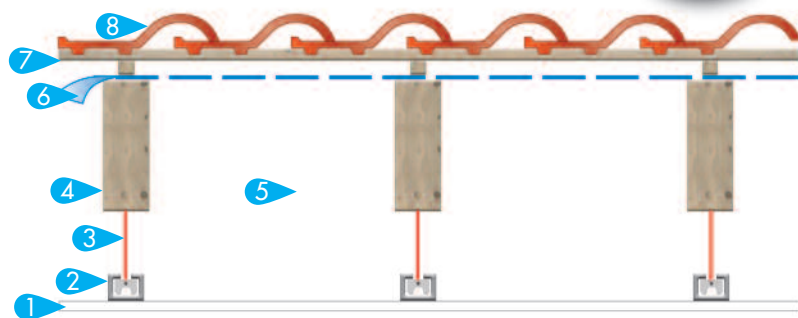
Total thickness of the wall : 303 mm

Sound Reduction Index :
R_w 67 (-4 ; -10)

System Pitched Roof

1 Pitched Roof

Test report
n° 2013/6373

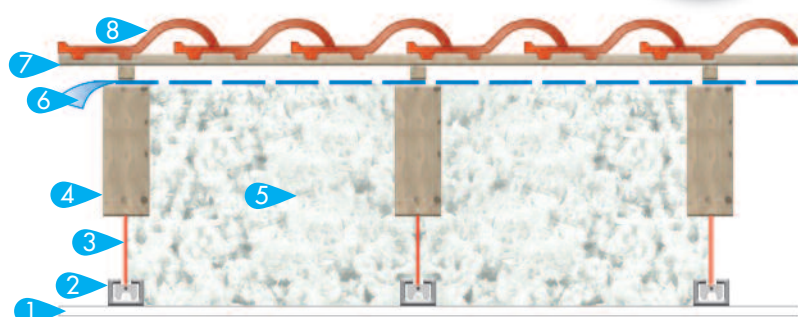


- 1 Standard Type A Gypsum board - 1x12,5 mm
- 2 Metal ceiling C-form profile
- 3 Metal Extensions - MultiZAP - 100 mm
- 4 Pitched Roof wood structure - height 180 mm - centre-to-centre distance 600 mm
- 5 Empty cavity
- 6 Underlay
- 7 Secondary wood structure - Battens
- 8 Tiles

Sound Reduction Index :
Rw 35 (-1 ; -3)

2 Pitched Roof (Supafil)

Test report
n° 2013/6374

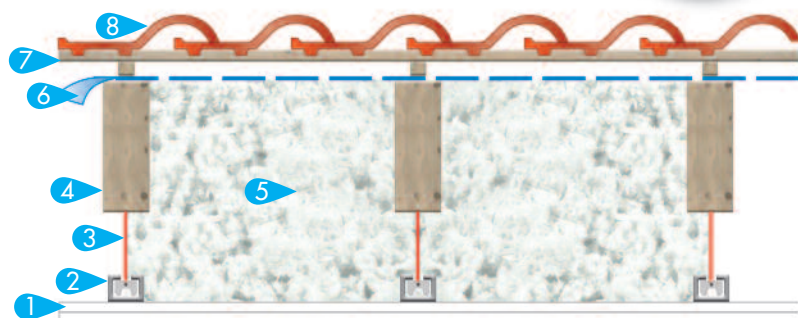


- 1 Standard Type A Gypsum board - 1x12,5 mm
- 2 Metal ceiling C-form profile
- 3 Metal Extensions - MultiZAP - 100 mm
- 4 Pitched Roof wood structure - height 180 mm - centre-to-centre distance 600 mm
- 5 Supafil Timber frame - density 35 kg/m³ - thickness 280 mm
- 6 Underlay
- 7 Secondary wood structure
- 8 Tiles

Sound Reduction Index :
Rw 45 (-3 ; -10)

3 Pitched Roof (Supafil)

Test report
n° 2013/6375



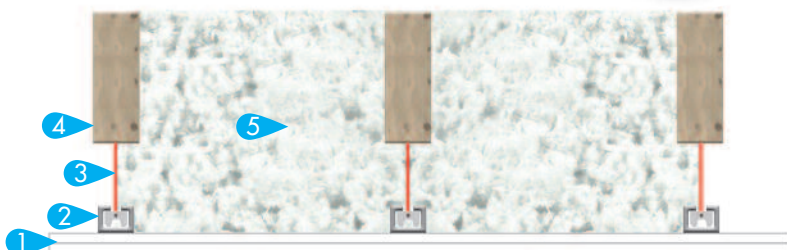
- 1 Standard Type A Gypsum board - 2x12,5 mm
- 2 Metal ceiling C-form profile
- 3 Metal Extensions - MultiZAP - 100 mm
- 4 Pitched Roof wood structure - height 180 mm - centre-to-centre distance 600 mm
- 5 Supafil Timber frame - density 35 kg/m³ - thickness 280 mm
- 6 Underlay
- 7 Secondary wood structure
- 8 Tiles

Sound Reduction Index :
Rw 49 (-3 ; -9)

System Loft Insulation

1 Loft insulation (Supafil)

Test report
n° 2013/6377

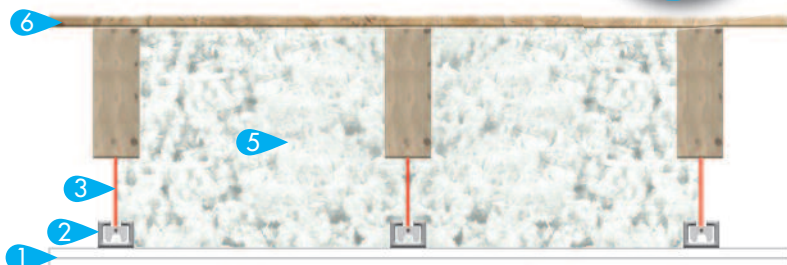


- 1 Standard Type A Gypsum board - 2x12,5 mm
- 2 Metal ceiling C-form profile
- 3 Metal Extensions - MultiZAP - 100 mm
- 4 Wood structure - height 180 mm - centre-to-centre distance 600 mm
- 5 Supafil Loft - density 12 kg/m³ - thickness 280 mm

Sound Reduction Index :
Rw 44 (-2 ; -8)

2 Loft insulation (Supafil)

Test report
n° 2013/6378



- 1 Standard Type A Gypsum board - 2x12,5 mm
- 2 Metal ceiling C-form profile
- 3 Metal Extensions - MultiZAP - 100 mm
- 4 Wood structure - height 180 mm - centre-to-centre distance 600 mm
- 5 Supafil Loft - density 12 kg/m³ - thickness 280 mm
- 6 OSB wood panel - 22 mm

Sound Reduction Index :
Rw 52 (-3 ; -10)

Supafil Sound Absorption coefficient

Supafil Loft - density 12 kg/m³ - thickness 300 mm

Sound Absorption Coefficient α : 1

