



BRIKMAKERS
INSPIRING INNOVATION

CLAYBRICK Sound Transmission

(Weighted Sound Reduction Index -RW)

Sound Transmission - 90mm

Verticlay



Rw > 50

Cavity brickwork, 90mm bricks.

- Two leaves of 90mm clay brick masonry with all joints filled with mortar.
- 40mm cavity between the leaves.
- 13mm render on both faces.



Rw + CTR > 50

Single leaf brickwork, 90mm bricks.

Single leaf of 90mm clay brick masonry including:

- 64mm metal or 70mm timber studs spaced 20mm from the face.
- 50mm of 11kg/m³ density insulation.
- 13mm plasterboard fixed to the studs on each face.



Rw > 45

Single leaf brickwork, 90mm bricks.

Single leaf of 90mm clay brick masonry including:

- 20mm render on both faces.
(combined thickness at float and set)

Verticlay Acoustic



Rw > 61

Rw + CTR > 56

Cavity brickwork, 90mm bricks.

- Two leaves of 90mm clay brick masonry with all joints filled with mortar.
- 70mm cavity between the leaves.
- No ties.

Sound Transmission - 110mm



Rw > 45

Single leaf brickwork. 110mm bricks rendered.

- Single leaf of 110mm clay brick masonry.
- 13mm render both sides.



Rw + CTR > 50

Rendered cavity brickwork. 110mm bricks rendered.

Two leaves of 110mm clay brick masonry including:

- 50mm cavity between leaves of clay brick masonry.
- Each face rendered 13mm thick.



Rw + CTR > 50

Insulated cavity brickwork. 110mm bricks.

Two leaves of 110mm clay brick masonry including:

- 50mm cavity between leaves of clay brick masonry.
- 50mm of 11kg/m³ density insulation in the cavity.



Rw + CTR > 50

Insulated single leaf brickwork. 110mm bricks.

- One layer of 13mm plasterboard direct fix one face.
- 64mm metal or 70mm timber studs spaced 20mm from masonry wall.
- 50mm of 11kg/m³ density insulation.
- One layer of 13mm plasterboard fixed to the studs on the other face.

Sound Transmission - 150mm



Rw > 50

Single leaf brickwork. 150mm bricks rendered.

- Single leaf of 150mm clay brick masonry.
- 13mm render both sides.



Rw + CTR > 50

Insulated cavity brickwork. 150mm bricks.

- One layer of 13mm plasterboard direct fix one face.
- 64mm metal or 70mm timber studs spaced 20mm from masonry wall.
- 50mm of 11kg/m³ density insulation.
- One layer of 13mm plasterboard fixed to the studs on the other face.