



**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/m<sup>3</sup> 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/m<sup>3</sup> 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/m<sup>3</sup> 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/m<sup>3</sup> density insulation.
- One layer of 13mm plasterboard fixed to the studs on the other face.



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