

SPECIFICATION DETAILS

Building Specification Wood-Cement Permanent Formwork Walling Units

Wood-Cement Insulated Permanent Formwork Walling Units BBA Certificate No:

10/4784

Manufacturer: Durisol UK Ltd, Parkway, Pen-Y-Fan Industrial Estate, Crumlin NP11

3EF

Technical Assistance: 01495 249400

Product Reference: D365s



Work sizes (length x height x thickness): 500 x 250 x 365mm

Thermal conductivity (maximum) certified by UKAS accredited laboratory at BM

TRADA

- PIR Insulation: U Value 0.15 W/m² K

Specials face (f) and external corner units (c) – db Rating Value – 57dB (wet plaster both sides)

- Bond: Stretcher
- Installation: Dry stacked, without a mortar joint, so vertical and horizontal voids are aligned. Insulation to external face of the wall. For all further installation guidance follow Durisol Practical Build Guide
- Concrete Fill: to BS EN 206 – flow class not higher than F5
 - Concrete: C30/C35 or to Engineers specification
 - Slump between 180-220mm to be checked on site prior to pour
 - Width of concrete fill: 120mm
 - Reinforcement: To engineer's drawings, if required

Product Reference: D300s



Work sizes (length x height x thickness): 500 x 250 x 300mm

Thermal conductivity (maximum) certified by UKAS accredited laboratory at BM TRADA

PIR Insulation: U Value 0.23 W/m² K

Specials – face (f) and external corner units (c)- dB Rating Value – 55dB (wet plaster both sides)

- Bond: Stretcher
- Installation: Dry stacked, without a mortar joint, so vertical & horizontal voids are aligned. Insulation to external face of the wall For all further installation guidance follow Durisol Practical Build Guide
- Concrete Fill: to BS EN 206 – flow class not higher than F5
 - Concrete: C30/C35 or to Engineers specification
 - Slump between 180-220mm to be checked on site prior to pour
 - Width of concrete fill: 120mm
 - Reinforcement: To engineer's drawings, if required

Product Reference: D250



Work sizes (length x height x thickness): 500 x 250 x 250mm

Thermal conductivity (maximum) certified by UKAS accredited laboratory at BM TRADA

U Value – 0.82 W/m² K

dB Rating Value – 63dB (wet plaster both sides)

- Bond: Stretcher
- Installation: Dry stacked, without a mortar joint, so vertical & horizontal voids are aligned. For all further installation guidance follow Durisol Practical Build Guide
- Concrete Fill: to BS EN 206 – flow class not higher than F5
 - Concrete: C30/C35 or to Engineers specification
 - Slump between 180-220mm to be checked on site prior to pour
 - Width of concrete fill for the D250 = 180mm
 - Reinforcement: To engineer's drawings, if required

Product Reference: D170



Work sizes (length x height x thickness): 500 x 250 x 170mm

Thermal conductivity (maximum) certified by UKAS accredited laboratory at BM TRADA

U Value – 1.12 W/m² K

- Bond: Stretcher
- Installation: Dry stacked, without a mortar joint, so vertical & horizontal voids are aligned. For all further installation guidance follow Durisol Practical Build Guide
- Concrete Fill: to BS EN 206 – flow class not higher than F5
 - Concrete: C30/C35 or to Engineers specification
 - Slump between 180-220mm to be checked on site prior to pour
 - Width of concrete fill for the D170 = 120mm
 - Reinforcement: To engineer's drawings, if required

Accuracy

Courses: Level and true to line.

Faces, angles and features: Plumb.

Permissible deviations:

- Position in plan of any point in relation to the specified building reference line and/ or point at the same level ± 10 mm.
- Straightness in any 5 m length ± 5 mm.
- Verticality up to 3 m height ± 10 mm.
- Verticality up to 7 m height ± 14 mm.

Lintels

These can be formed during construction using the Face units (f) used on end as a soldier course and utilising the necessary size and number of reinforcing bars. For all further installation guidance follow Durisol Practical Build Guide.

Testing

Slump Test

A slump test should be carried out before each pour to ensure sufficient slump.

Test method to BS EN 12350-2:2009

Compressive Strength Test for Concrete

- Testing authority: A UKAS Accredited laboratory.
- Test method: BS EN 12390-3:2009
- Preliminary tests procedure: As follows:

Number of specimens: 6.

Type: 100x100x100 mm cubes

Specimen testing: Half of specimens at 7 days. Remainder at 28 days.

- Site tests procedure: As follows.
 - Number of specimens: Six per 150m² of walling or per storey whichever the more frequent.
 - Specimen types: As preliminary test, but prepared during construction.
 - Specimen testing: Half of specimens at 7 days. Remainder at 28 days.