

## Wall Form Units Dimensions



### D170/120

U value 1.12  
dB value 55  
Width 170mm  
Structural core thickness 120mm  
Concrete required per m<sup>2</sup> of wall 0.092m<sup>3</sup>  
Shipping weight 6.5kg



### D250/180

U value 0.82  
dB value 63  
Width 250mm  
Structural core thickness 180mm  
Concrete required per m<sup>2</sup> of wall 0.144m<sup>3</sup>  
Shipping weight 10.5kg



### D300/120

U value **0.27**  
dB value 55  
Width 300mm  
Structural core thickness 120mm  
Concrete required per m<sup>2</sup> of wall 0.096m<sup>3</sup>  
Shipping weight 12.5kg



### D365/120

U value **0.19**  
dB value 57  
Width 365mm  
Structural core thickness 120mm  
Concrete required per m<sup>2</sup> of wall 0.096m<sup>3</sup>  
Shipping weight 14.5kg

All wall form units are 500mm long x 250mm high.  
Corner and face/lintel forms for openings available.

## Contact details



To arrange a CPD or for more information about the Durisol walling system please call freephone **0800 434 6458** or email [sales@durisol.net](mailto:sales@durisol.net)

Also available through Burdens

## Technical Data

- Standard U values as low as 0.19
- Hygroscopic nature of the material moderates relative humidity levels (65% RH maximum)
- Breathable wall surface
- Provides an inherent moisture regulator that keeps humidity low
- Wall Sound Transmission Coefficient (STC) ratings can range between 54 & 72
- Noise Reduction Coefficients (NRC) ratings as high as 0.95 (95% of the sound that reaches the Durisol material is absorbed)
- F90 fire rating

# Durisol UK

Durisol is the original stay in place wall form system offering:

- **U VALUE OF 0.19 AS STANDARD**
- U VALUES OF 0.15 EASILY ACHIEVABLE
- Fast build times - 8 units per m<sup>2</sup>
- Fully certified
- Fully sustainable recycled timber to help decrease Carbon Footprint
- Low lifecycle costs
- Thermal mass benefits
- Dry Stack (no mortar required)
- Excellent acoustic properties
- Finishes applied directly to the surface
- NEW - NOISE BARRIERS



**U 0.19**

building system

[www.durisol.net](http://www.durisol.net)

80% recycled wood

## Cost Savings

- Interlocking modular units that are dry-stacked (without mortar)
- Bricklaying skills not required
- Provides exceptional insulation with effective thermal performance values that are more than twice that of conventional walls
- No thermal bridging
- Benefits of thermal mass as majority of the insulation is located on the exterior of the concrete core
- Light-weight (no block exceeds 14.5kg), easily cut, nailed and screwed with simple carpentry tools
- Use of high-slump concrete makes for easier and faster concrete pouring
- Thermal mass and low U values makes effective use of low energy heating systems
- Interior and exterior finishes are applied directly to the Durisol Walling Units

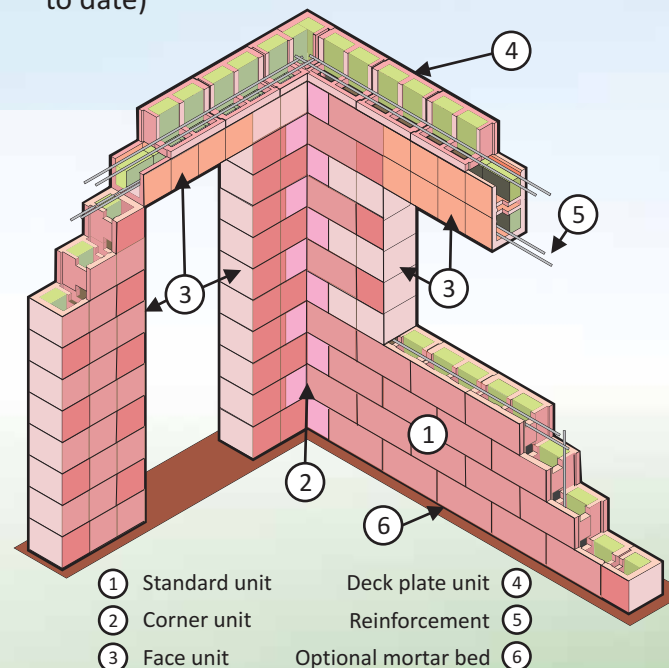
## Sustainable

Durisol is a proprietary cement-bonded, specially graded recycled waste wood (100% clean, natural softwood) concrete product.

- Low energy manufacture (no kilns or ovens)
- Reclaimed rain water used for manufacture
- Basis of a green building - from passive solar design to environmentally energy efficient construction
- Exceptional thermal performance
- Exceptional acoustic performance
- Very durable, does not rot or decay
- Vermin, insect proof & does not support fungal or bacterial growth
- Environmentally safe, virtually inert
- Fully recyclable
- Low embedded energy

## Construction Benefits

- For below and above-ground level building construction
- Minimise number of building elements required (Reduced Parts Count)
- Concrete with a slump between 180mm & 220mm is recommended
- No need for expansion joints
- Free draining material- negligible capillary suction
- Lightweight for ease of construction and compliance with CDM regulations
- Interlocking modular units that are dry-stacked (without mortar) and filled with concrete and steel reinforcing
- No offsite fabrication necessary
- Ready for finishes; the Durisol material provides a substrate for wet and dry finishes inside and out, dispensing with mesh, scratch coats and strapping
- Suitable for high rise structures (up to 26 stories to date)



## Typical Build Schedule

- Check foundations for levels.
- Mark out wall lines.
- Stack first course, starting with corners, using mortar levelling bed if required.
- Cut second course to height. Stack from corners
- Check vertical and bond pattern.
- Insert vertical reinforcement, on 500mm centres, cut to wall height plus 200mm.
- Pour concrete making sure finish is level to top of units.
- Apply DPC and paint reinforcement tails with waterproof material.
- From corners continue stacking units to window sill height, taking care with door openings.
- Insert vertical reinforcement as required, holding in place with a horizontal course.
- Pour concrete stopping 50mm below the top of the units.
- Stack from corners, use temporary bracing at window and door openings.
- Insert reinforcement over window and door openings as required.
- Continue stacking from corners. Trim units to finish height.
- Stack deck units if required. Install ring beam reinforcement.
- Continue!

## Proven Track Record

- Installed throughout Europe, North America, Asia and Africa for over 50 years.
- Withstands hot and humid climates, disasters (fire, hurricanes, earthquakes), freezing and thawing - all without loss of performance or damage.