

NEWLAY

CONCRETE LIMITED



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NEWLAY CONCRETE LTD

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CONCRETE BLOCK
ASSOCIATION



NEWLITE™ MEDIUM DENSITY BLOCKS

Newlite Concrete blocks are manufactured in accordance with BS EN 771-3:2003. Manufactured in a finish suitable for plastering and can also be supplied with a texture suitable for Painting

PRODUCT APPLICATION:

Newlite blocks are multi-purpose building blocks available in an open texture, suitable for plaster or render, or with a tight texture suitable for painting. They are suitable for use in beam and block flooring and below dpc, providing that they are solid and have a minimum compressive strength of 7.3N/mm². They provide excellent sound insulation, making them the ideal solution for party walls and have excellent thermal characteristics, keeping cavity insulation requirements to a minimum while allowing the use of standard plastering techniques and light/medium fixings.

- * Wide range of compressive strengths
- * Low thermal conductivity
- * Minimal Moisture Movement
- * Class 1 fire resistance
- * Loadbearing Strength
- * Excellent sound insulation characteristics
- * Excellent thermal characteristics
- * Open texture (Common) good key for plaster
- * Close texture (Paint Quality) good surface to paint

NEWLITE SPECIFICATION - 440 x 215mm: MEAN COMPRESSIVE STRENGTH (AIR DRY)

SOLID:	4.4; 7.3; 10.4N/mm ²
GROSS DRY DENSITY:	1350 - 1500kg/m ³
MANUFACTURING TOLERANCE:	D1
CATEGORY:	I
THERMAL PROPERTIES:	0.42 W/mK
DURABILITY:	See table 12: BS 5628- 3:2005
WATER ABSORPTION:	N/A - Not to be left exposed
MOISTURE MOVEMENT:	0.60mm/m
WATER VAPOUR PERMEABILITY:	1/15 (Tabulated from EN 1745)
REACTION TO FIRE:	Euroclass A1
SHEAR BOND STRENGTH:	0.15N/mm ² (Tabulated from EN 998-2:2003, Annex C)
CONFIGURATION:	Solid Group 1 to EN 1996-1-1

NEWLITE BLOCK PRODUCTS RANGE AND WEIGHTS:

NOMINAL THICKNESS	75mm	90mm	100mm	140mm
Actual Face Size 440 x 215mm				
Solid	11	13.2	14.6	19.5

FIRE RESISTANCE

Newlite - Class 1 - non-combustible - no flame spread

In accordance with BS EN 13501-1. Notional fire resistant periods are:-

Block mm	Loadbearing Wall		Non-Loadbearing Wall	
	No Finish	Plaster Finish	No Finish	Plaster Finish
90	1 Hour	2 Hour	2 Hour	4 Hour
100	2 Hours	4 Hours	2 Hours	6 Hours
140	3 Hours	4 Hours	4 Hours	6 Hours

Plaster Finish @ 13mm applied to both faces of single leaf wall:



NEWLITE; Qualifies as an ECOBLOCK™ With 85% Recycled Materials:



NEWCON™

DENSE AGGREGATE BLOCKS

Newcon Concrete blocks are manufactured in accordance with BS EN 771-3:2003. Manufactured in a finish suitable for plastering and can also be supplied with a texture suitable for Painting

PRODUCT APPLICATION:

Newcon blocks are the most versatile concrete blocks available and can be used in virtually any part of a project, above or below ground. Newcon blocks are particularly suited for use in partitions and party walls to comply with party wall regulations, they can be specified over a broad range of Robust Detail wall and floor applications. Ideal for use in beam and block flooring along with load bearing applications. Their High pull-out strengths make them particularly suited to office / commercial and industrial applications.

- * Wide range of compressive strengths
- * Low thermal conductivity
- * Minimal Moisture Movement
- * Class 1 fire resistance
- * Loadbearing Strength
- * Open texture (Common) good key for plaster
- * Close texture (Paint Quality) good surface to paint

NEWLITE SPECIFICATION - 440 x 215mm: MEAN COMPRESSIVE STRENGTH (AIR DRY)

SOLID:	7.3, 10.4, 17.5, 22.5, 30, 40N/mm ²
HOLLOW:	7.3, 10.4, 17.5N/mm ²
GROSS DRY DENSITY:	1850 - 2050kg /m ³
MANUFACTURING TOLERANCE:	D1
CATEGORY:	I
THERMAL PROPERTIES:	1.10 W/mK
DURABILITY:	See table 12: BS 5628-3:2005
WATER ABSORPTION:	N/A - Not to be left exposed
MOISTURE MOVEMENT:	0.60mm/m
WATER VAPOUR PERMEABILITY:	1/15 (Tabulated from EN 1745)
REACTION TO FIRE:	Euroclass A1
SHEAR BOND STRENGTH:	0.15N/mm ² (Tabulated from EN 998-2:2003, Annex C)
CONFIGURATION:	Solid Group 1 - Hollow Group 2 to EN 1996-1-1

NEWCON BLOCK PRODUCTS RANGE AND WEIGHTS:

NOMINAL THICKNESS	75mm	90mm	100mm	140mm	215mm
Actual Face Size 440 x 215mm					
Solid	14.5	17.5	19.4	27.2	26.3
Hollow				17.5	

FIRE RESISTANCE

Newcon - Class 1 - non-combustible - no flame spread

In accordance with BS EN 13501-1. National fire resistant periods are:-

Block mm	Loadbearing Wall		Non-Loadbearing Wall	
	No Finish	Plaster Finish	No Finish	Plaster Finish
90	1 Hour	2 Hour	2 Hour	4 Hour
100	2 Hours	4 Hours	2 Hours	6 Hours
140	3 Hours	4 Hours	4 Hours	6 Hours

Plaster Finish @ 13mm applied to both faces of single leaf wall:

FOUNDATION BLOCKS

A FAST, ECONOMICAL ALTERNATIVE TO TRENCH FILL.

The use of blockwork below dpc is well proven as an economical method of construction.

Foundation blocks are purpose designed to meet the requirements of most wall construction, providing a fast, flexible cost-effective alternative to traditional construction methods. Four sizes are available to suit most cavity wall designs and

PRODUCT APPLICATION:



Foundation blocks are manufactured from selected natural and lightweight aggregates and Ordinary Portland Cement, in accordance with BS EN 771-3:2003. For use below ground reducing the need for expensive concrete refill.

- * Fast to lay
- * Products dimensioned to meet most cavity options from 50mm - 150mm
- * Flexible to use
- * Eliminates the need for concrete infill
- * Offer considerable saving costs

FOUNDATION SPECIFICATION : MEAN COMPRESSIVE STRENGTH (AIR DRY)

SOLID:	7.3, 10.4N/mm ²
GROSS DRY DENSITY:	1550kg/m ³
MANUFACTURING TOLERANCE:	D1
CATEGORY:	I
THERMAL PROPERTIES:	0.42 W/mK
DURABILITY:	See table 12: BS 5628- 3:2005
WATER ABSORPTION:	N/A - Not to be left exposed
MOISTURE MOVEMENT:	<0.97mm/m
WATER VAPOUR PERMEABILITY:	1/15 (Tabulated from EN 1745)
REACTION TO FIRE:	Euroclass A1
SHEAR BOND STRENGTH:	0.15N/mm ² (Tabulated from EN 998-2:2003, Annex C)
CONFIGURATION:	Solid Group 1 to EN 1996-1-1

FOUNDATION BLOCK PRODUCT RANGE & WEIGHTS (D)

Nominal Thickness	140mm	Qty/m ²	Laid At:
Actual Face Size: 300x250mm	16.2kg	25.6Nr	300mm BED
		21.5Nr	250mm BED
Actual face Size: 350x250mm	18.8kg	25.6Nr	350mm BED
		18.5Nr	250mm BED
Actual Face Size: 390x215mm	17.3kg	29.7Nr	290mm BED
		16.7Nr	215mm BED

BRICK DATA SHEET

DENSE CONCRETE COMMON BRICKS

Newlay Concrete Ltd, manufacture dense concrete common bricks which are to be used in conjunction above and below dpc level.

The dense aggregates used in the manufacturing process provided density, strength & thermal conductivity values, which are compatible with the majority of dense concrete blocks.

In additions to their ability to withstand repeated cycles of attack from the rain and frost, good quality dense concrete bricks age harden and throughout independently controlled

laboratory experiments. The bricks passed the most rigorous freeze- thaw tests designed to establish the durability classification for masonry

The bricks , which are solid are manufactured and tested in accordance with BS EN 771-3:2011: Specification for Masonry Units: Aggregate Concrete Masonry Units.

As stated in the Standard they can be defined as:

* Common masonry units are for use with no faces left visible.

APPEARANCE:	Grey colour with variable texture. The colour may vary depending on the supply of the selected dense aggregate and as such no guarantee and as such no guarantee can be	
DIMENSIONS:	215mm x 100mm x 65mm	
TOLERANCE:	Category D1 (+3- 5mm in all directions)	
CONFIGURATION:	Solid	
COMPOSITION:	Dense Aggregates and Portland Cements	
DRY DENSITY:	Average 2200 kg/m ³	
DRY WEIGHT:	2.85 - 3.2kb approximately for 65mm size	
COMPRESSIVE STRENGTH:	>22N/ mm ² mean. Air dry	
THERMAL CONDUCTIVITY:	Protected	Exposed
	1.59W/mk	170W/mk
	(As CIBSE Guide A, Table 3.1)	
DURABILITY:	Based on tabulated values from BS5628-3, Table 12, Common bricks are classed as frost resistant	
WATER ABSORPTION BY CAPPILARITY:	<150g/m ² /S 0.5	
MOISTURE MOVEMENT:	<0.45mm/m	
WATER VAPOUR PERMEABILITY:	5/15.u (Tabulated from EN 1745)	
REACTION TO FIRE:	Euroclass A1	
SHEAR BOND STRENGTH:	0.15N/mm ² (Tabulated from EN 998-2:2003, Annex C)	
BUILT WALL WEIGHT:	225kg /m ² (Unplastered Single Leaf Wall)	
GREEN GUIDE RATING:	A+	
PRESENTATION:	Self-contained packs, shrink wrapped on non returnable pallets	

COMPLEMENTARY PRODUCTS

COMPLEMENTARY PRODUCT RANGE			
Density	Strength	Size (mm)	Weight (kg)
COURSING			
Newlite	4.4, 7.3, 10.4	215 x 100 x 65	2.2
		215 x 140 x 65	3.1
		440 x 140 x 65	4.5
		440 x 140 x 65	6.4
		440 x 100 x 90	7.1
Newcon	4.4, 7.3, 10.4	215 x 100 x 65	3.3
		215 x 140 x 65	4.6
		440 x 100 x 65	6.7
SLIPS			
Newlite	7.3, 10.4	385 x 100 x45	3.0
Newcon	7.3, 10.4	385 x 100 x45	3.5
BEAM BLOCK			
Newlite	7.3	100 x 440 x 165	10.7

COURSING BLOCK

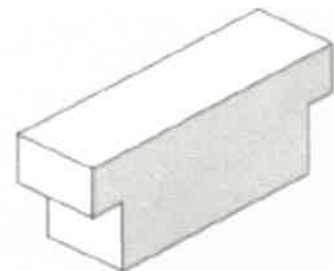
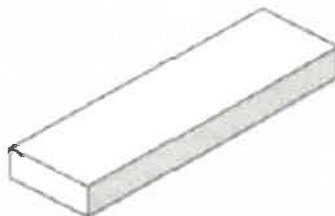
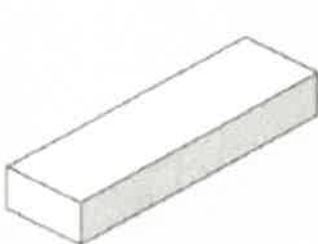
When detailing around doors or above lintels, Newlite and Newcon coursing blocks will minimise the need for cutting on site. Five sizes of coursing block are available to complement the Newlite range and three to

SLIPS

Newlite and Newcon slips are available at 385 x 100 x 45, to provide infill blocks, where appropriate.

BEAM BLOCK

Specifically designed as a stop end to complement Newlite when used in beam and block flooring, the Newlite Beam block weighs only 10.7kg



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