

Uniclass L3221:A4	EPIC F611:X221
CI/SfB	
	Ff2 (Ajv)

Aggregate Concrete Blocks

UHB - The Universal Housing Block

Introduction

The UHB concept is based on a single block selected from a range of 100mm thick solid (Group 1) aggregate blocks so as to meet the precise needs of your specific design. The selection process is simple and once made at the design stage arranging the supply of blocks and the subsequent site management of blocks are both completely straightforward. With only a single block type on site there is, of course, no risk that blocks are used for the wrong application. Not only does the UHB concept make life easier for the site construction team, it also removes any monitoring problems for Building Control who have no need to check that the correct blocks have been used for specific applications.

For most, if not all housing sites, the UHB concept allows the selection of just one block, which can be used for all block applications.

Applications include:

- External walls (above & below dpc)
- Partitions and internal walls (inc. sound resisiting)
- Separating walls (cavity and solid)
- Floors (ground and intermediate)

As the UHB concept is based on aggregate blocks, it brings with it the major benefits of reliable party wall performance, an excellent background for all finishes (particularly a good key for plaster/ render) and a good solid background for fixings.

The majority of house designs with low elemental U values and all the most energy efficient designs require a layer of insulation material to enhance wall and floor thermal performance. It is easy to insulate to the required level with UHB using any of the commonly available insulation materials and cold bridges at wall/floor junctions and around openings can be handled easily at the design stage.

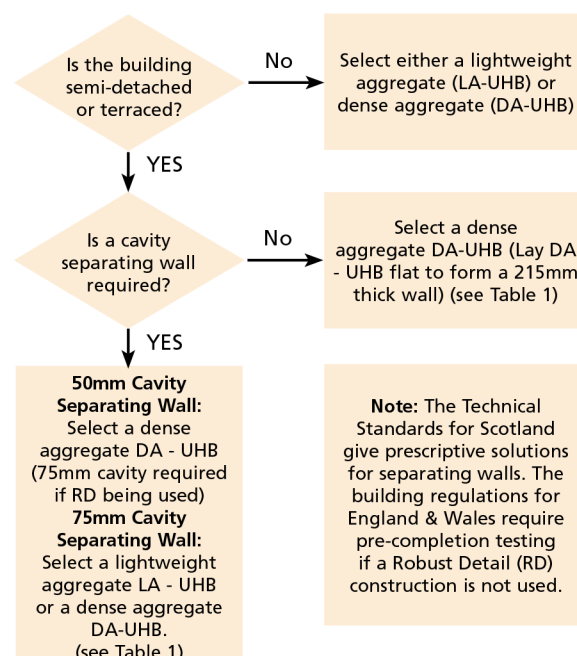
Depending on the location of the site and whether the dwelling is detached or not, there is a basic choice between a lightweight aggregate UHB (LA-UHB) and a dense block UHB (DA-UHB). Other construction details will dictate the strength of the unit and density required.

The following guidance to block selection will aid the selection process:

Block specification:

LA-UHB 100mm thick / density 1350-1600kg/m³

DA-UHB 100mm thick / density 1800 kg/m³ min in England and Wales and 1990 kg/m³ min in Scotland.



UHB - The Universal Housing Block Guide To Block Specification

Table 1 gives guidance on specifications necessary to satisfy regulatory requirements. It is recommended that the table is used so as to arrive at an appropriate UHB specification by the quickest route.

Application	Lightweight Aggregate UHB LA - UHB		Dense Aggregate UHB DA - UHB		Finish
	3.6N/mm ²	7.3N/mm ²	3.6N/mm ²	7.3N/mm ²	
EXTERNAL WALLS					
(above dpc) Outer leaf Inner leaf (1 or 2 storey)	•	•	•	•	Render/cladding
	•	•	•	•	Any Any
(below dpc) Outer leaf Inner leaf (1 or 2 storey)		•	•	•	Not applicable
	•	•	•	•	Not applicable Not applicable
PARTITIONS & INTERNAL WALLS (including sound resisting)					
	•	•	•	•	Any
SEPARATING WALLS Walls in England & Wales will be subject to pre-completion testing unless otherwise indicated.					
Cavity 50mm cavity (1 or 2 storey) (3 storey)			•	•	Plaster/drylining (1) Plaster/drylining (1)
75mm cavity (only England & Wales) (1 or 2 storey) (3 storey)	•	•	•	•	Plaster/drylining (2) Plaster/drylining (2)
Solid (100mm blocks laid flat) (1 or 2 storey) (3 storey)			•	•	Plaster/drylining Plaster/drylining
FLOORS					
Ground	• (flooring grade) (3)	•	• (flooring grade) (3)	•	Any
Intermediate	• (flooring grade) (3)	•	• (flooring grade) (3)(4)	• (4)	Any

- (1) If a step and/or stagger of at least 300mm exists, drylining may be used as an alternative to a plaster finish
- (2) Constructions are Robust Details not requiring pre-completion testing, (drylined finish requires a parge coat to be applied first)
- (3) Tested for transverse load capacity
- (4) Suitable for meeting Regulation E2 of the Building Regulations for England & Wales

Visit www.cba-blocks.org.uk for the latest information, news and views from the CBA.
CBA Technical Helpline: 0116 232 5165

© The Concrete Block Association 2007

Although The Concrete Block Association does its best to ensure that any advice, recommendation or information it may give is accurate, no liability or responsibility of any kind (including liability for negligence) is accepted in this respect by the Association, its servants or agents.

This datasheet is manufactured from ECF (Elemental Chlorine Free) pulp sourced from certified or well managed forests and plantations. It is totally recyclable, biodegradable and acid-free.

