

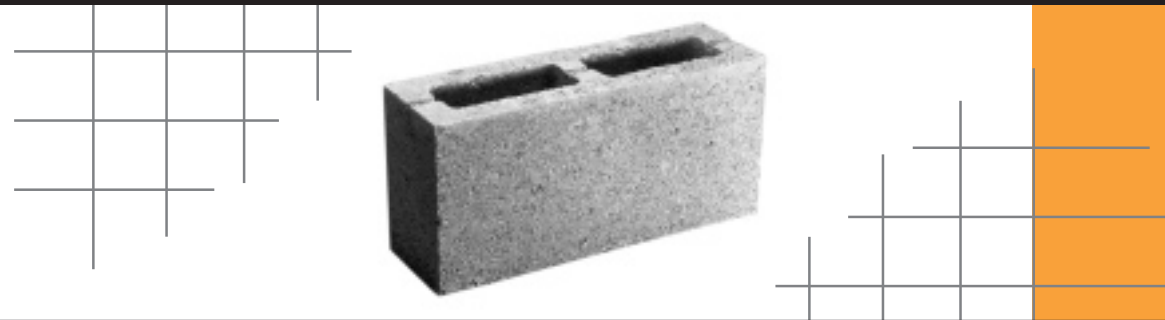
Cellular Blocks

Cellular Blocks

Blocks which contain one or more formed cavities which do not fully penetrate the block.

Cellular blocks provide the same or similar performance characteristics as solid blocks but with the significant advantage of having lower unit weight.

The need to restrict block weights has revived interest in voided blocks and the recently introduced units having innovative core patterns offer additional strength, cutting and chasing advantages.



Cellular Block Types

In-line voids

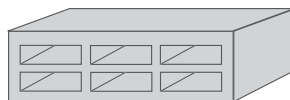


Block with 2 voids



Block with 4 voids

Parallel voids



Block with 2 rows of voids

Availability

Cellular blocks are available in thicknesses from 90mm and are made with either dense or lightweight aggregates.

Advantages

- Can be laid on a full bed of mortar
- Reduced unit weight for ease of handling
- Reduced floor/foundation loadings
- Same or similar physical properties as solid units
- Range of face textures
- Greater site productivity
- Similar characteristic compressive strength to solid units
- Same characteristic flexural strength as solid units

Applications

- Partitions in framed structures
- Inner leaves of cavity walls
- Outer leaves of cavity walls (*when protected eg by render*)
- Single leaf external walls (*when protected eg by render*)
- Partitions
- Separating walls (*with acoustic test evidence*)
- Below d.p.c

Cutting

Blocks containing splitting aids are available from most manufacturers, otherwise blocks may be saw cut on site or, by arrangement, supplied pre-cut by the manufacturer.

Chasing

A minimum of 15mm between the bottom of the chase and the void should be maintained for chases in units containing in line voids.

Fixings

Light duty fixings such as normal plastic plugs present no problems, are easy to use and are suitable for most domestic fixings (eg. radiators, bookshelves, kitchen cupboards) in all types of cellular block.

Heavy duty fixings can be made for commercial/industrial applications in the solid section of the block, with through bolts or with specialist proprietary fixings.



CONCRETE BLOCK ASSOCIATION

About Aggregate Concrete Blocks

Aggregate concrete blocks are the most economical solution for builders.

They have the best acoustic properties, provide an excellent background for fixings and have excellent resistance to fire. Aggregate blocks are strong, durable, ideal for all wet finishes and for dry lining, and easy to lay and position on mortar.

A single block type can be used in every situation on site for housing applications, helping to control costs, improve delivery scheduling and reducing the risk of products being used in error. Aggregate blocks are ideally suited to the construction of inner leaves, outer leaves, separating walls, beam and block flooring, partitions and for use below dpc.

Above all, aggregate concrete blocks are a tried and tested solution, a significant and reassuring advantage lacked by many of the untried alternatives.

About this Publication

This document is intended as a general guide to the use of aggregate concrete blocks for the construction of external walls. For guidance on the use of aggregate blocks for construction of other wall types, please refer to our web site.

The material for this guide has been extracted from detailed technical data, which will be published on the Concrete Block Association web site in due course. Visit www.cba-blocks.org.uk or call our helpline on 0116 253 6161 for more information.

About the Concrete Block Association

We are the trade body which represents manufacturers of aggregate concrete blocks and suppliers allied to the industry. We are committed to ensure that both standards and service provided by our members reflect the importance of our product to the construction industry.

Issued by:



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