

# AIREY BLOCKS

## CONCRETE BLOCK STRUCTURAL REMEDIAL SYSTEM

The Airey House is a post-war prefabricated concrete box structure which is formed from closely spaced storey-height columns of steel tube reinforced concrete columns to which thin concrete cladding panels are fastened with copper wire. The embedded steel in the structural concrete columns has eroded over the years due to the lack of concrete cover to the reinforcing tube (particularly at the ends of the columns), carbonation of the concrete and the presence of chlorides. This has resulted in insufficient structural integrity of the columns to support the first floor and roof and to transmit vertical loading to the foundations.

Plasmor, in collaboration with Leeds City Council, developed a concrete block structural remedial system which is designed to encase the existing concrete columns and assume the structural integrity of the respective elevations in Airey Houses. The Plasmor Airey System comprises of three block types; the Airey Block, Airey Cut Corner and Airey Reveal.



*Lightweight Low Density*



*High Thermal Efficiency*



*Fire Resistant*



*Loadbearing*



*Accepts Plaster and Paint Without Bonding Coat*



*Low Shrinkage*



*Authority*



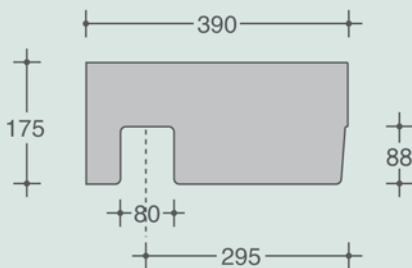
*Easily Cut and Chased*



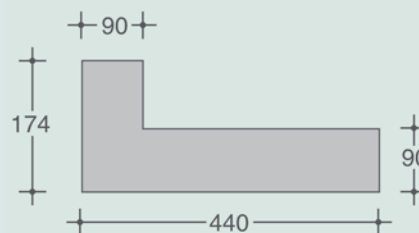
*Excellent Fixability*



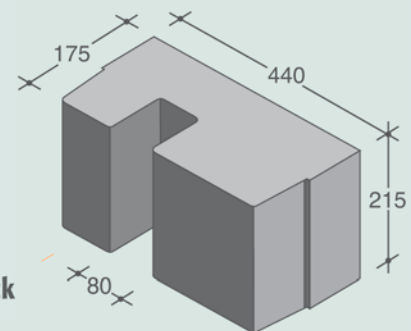
**390mm Airey Cut Corner Block**



**440mm Airey Reveal Block**



**440mm Airey Block**



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### AUTHORITY

Airey blocks are manufactured in production facilities to BS EN 771-3, with third party accreditation under BSI as follows:-

BS EN ISO 9001  
FM 10847 Certificate Number

BS EN ISO 14001  
EMS 536819 Certificate Number

BES 6001  
BES 585086 - 'Good' achieved

### AIREY BLOCKS PACK SIZES (Metric)


4.8m<sup>2</sup> or 5.6m<sup>2</sup> depending on plant of manufacture.

### PROPERTIES AND PERFORMANCE


#### Mean Compressive Strength

 3.6 N/mm<sup>2</sup>.


#### Dry Density

 1000Kg/m<sup>3</sup>.


#### Thermal Value (at 3% moisture)

 k = 0.33W/m°C.


#### Moisture Movement

 Not greater than 0.60mm/m.  
Consult our technical department for further information.


#### Fire Resistance

 Airey Blocks are manufactured from Class 1 Fire Resistant Aggregate as defined in BS 5628 Part 3 and comply with BS EN 1996-1-2005.


#### Shear Bond Strength

 0.15 N/mm<sup>2</sup>.


#### Fixability

 Airey blocks accept direct nailing and are easy and speedy to drill and plug.

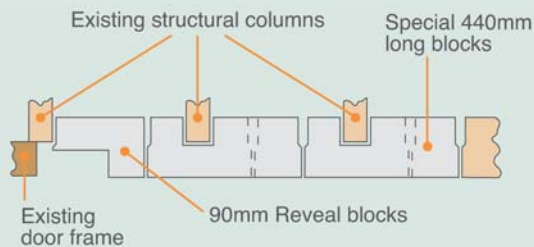
#### Mortar Designation

 **Class (iii)** for walls ABOVE DPC by volume  
Cement : Lime : Sand                      1 : 1 : 6  
Cement : Sand                                      1 : 5 to 6

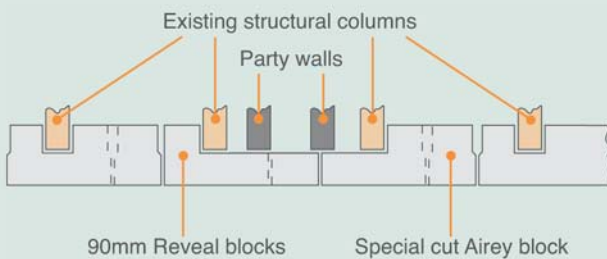
#### Rendering

 Builders considering the use of proprietary single coat render systems must exercise caution to accurately adhere to the render manufacturers' design and specification guides. Furthermore, during application, strictly adhere to the specific and expansive application instructions, paying particular attention to prevailing weather conditions applied thereto. PLEASE NOTE that traditional rendering applications are not so seasonally and conditionally demanding.

### DOOR RETURNS



### PARTY WALLS



### CORNER POSITIONS

