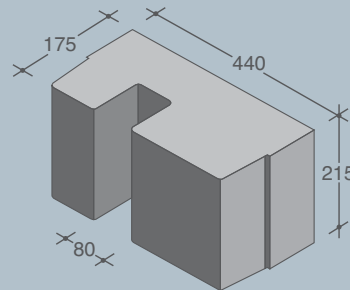


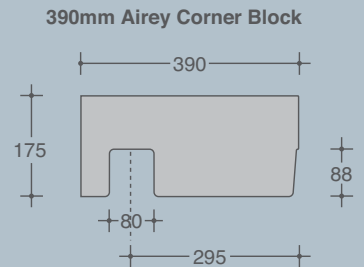
AIREY BLOCKS

CONCRETE BLOCK STRUCTURAL REMEDIAL SYSTEM

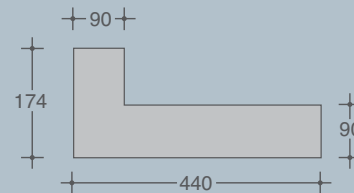
The AIREY HOUSE is a post-war prefabricated concrete box structure which is formed from closely spaced storey-height columns of steel tube reinforced concrete columns to which thin concrete cladding panels are fastened with copper wire.



440mm Airey Block



440mm Airey Reveal Block



AUTHORITY

Airey blocks are manufactured to comply with BS EN 771-3. Production facilities accredited (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

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



Low Shrinkage



Accepts Plaster and Paint without bonding coat



Authority



Easily Cut and Chased



Excellent Fixability

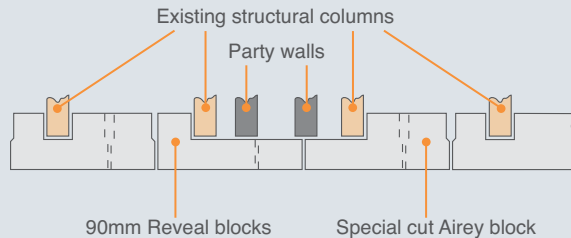
AIREY BLOCK PACK SIZES

5.6m²

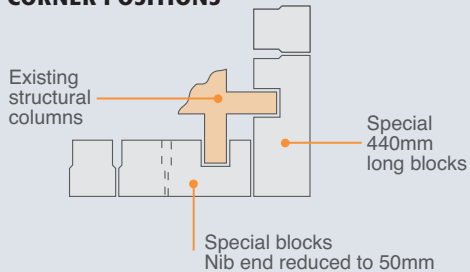
AIREY BLOCKS

CONCRETE BLOCK STRUCTURAL REMEDIAL SYSTEM

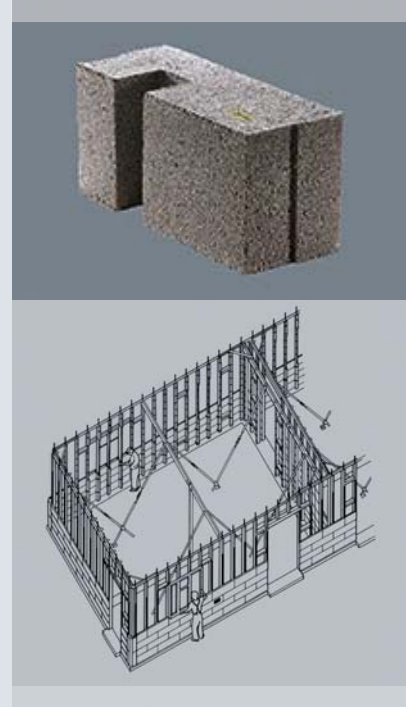
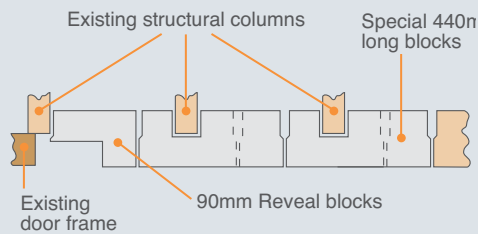
PARTY WALLS



CORNER POSITIONS



DOOR RETURNS



PROPERTIES & PERFORMANCE



MEAN COMPRESSIVE STRENGTH

3.6 N/mm².



DRY DENSITY

1000 Kg/m³.



THERMAL VALUE (at 3% moisture)

$k = 0.33 \text{ W/m.K}$



MOISTURE MOVEMENT

Not greater than 0.6 mm/m*.



SOUND INSULATION

Airey blocks comply with Part E and Robust Details for floors and walls*.



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.



SHEER BOND STRENGTH

0.15 N/mm²



FIXABILITY

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



MORTAR DESIGNATIONS

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.

* Please consult our Technical Department for further information.