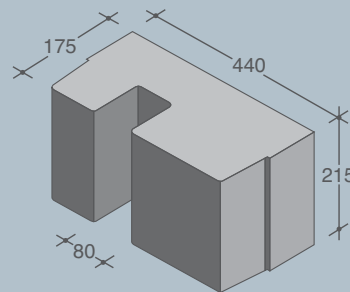


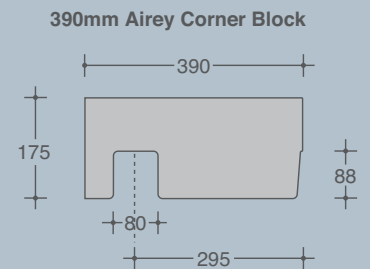
# AIREY BLOCKS

## CONCRETE BLOCK STRUCTURAL REMEDIAL SYSTEM

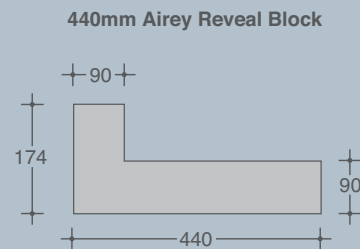
The AIREY HOUSE is a post-war prefabricated concrete box structure which is formed from closely spaced storey-height columns of steel tube reinforced concrete columns to which thin concrete cladding panels are fastened with copper wire.



440mm Airey Block



390mm Airey Corner 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*

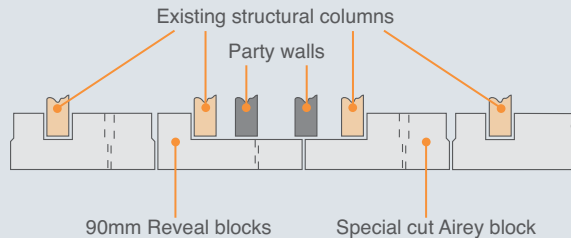
### AIREY BLOCK PACK SIZES

5.6m<sup>2</sup>

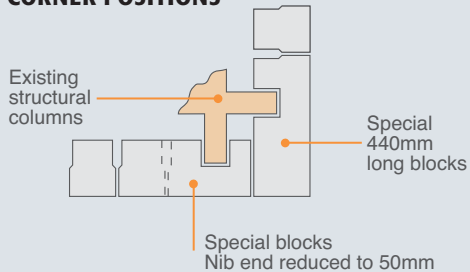
# AIREY BLOCKS

## CONCRETE BLOCK STRUCTURAL REMEDIAL SYSTEM

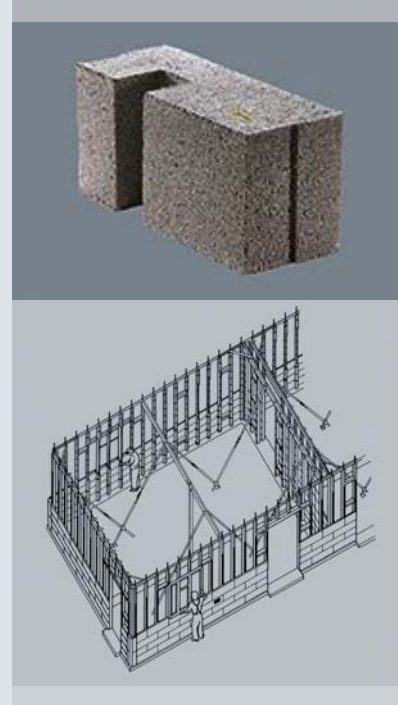
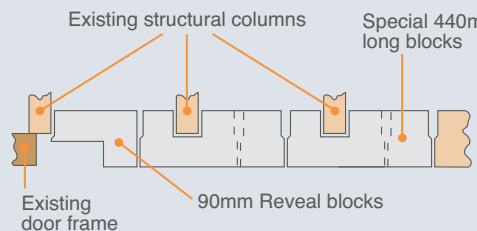
### PARTY WALLS



### CORNER POSITIONS




### DOOR RETURNS




## PROPERTIES & PERFORMANCE


 **MEAN COMPRESSIVE STRENGTH**  
3.6 N/mm<sup>2</sup>.


 **DRY DENSITY**  
1000 Kg/m<sup>3</sup>.


 **THERMAL VALUE** (at 3% moisture)  
 $k = 0.33W/m^{\circ}C$ .

 **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/mm<sup>2</sup>

 **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.