

PRODUCT GUIDE



STRUCTURAL REFURBISHMENT AND RESTORATION



For more than twenty years Clan have provided their clients with a complete service in the field of structural engineering and remedial works to both the public and private sectors. Contracts undertaken have been diverse, from tower blocks and listed buildings to water treatment works and local authority housing estates.

SUCCESS BUILT ON INNOVATION

Since the early 1980's, Clan have been at the forefront of remedial cavity wall tie technology designing new remedial wall ties, the Kontrakt tie, lateral restraint systems, the Clanbolt, and the unique isolation process for treatment of corroding wall ties, the Clansleeve.

Over the years as we have been confronted with new problems within the refurbishment industry, we have introduced innovative solutions designed in conjunction with our structural engineers, with not just the specifier in mind, but also the contractor. A good product not only overcomes the structural problems but is simple to fix reducing operator error. All of our products are designed in accordance with the basic principles that Clan adhere to; a quick, simple and virtually unobtrusive repair.

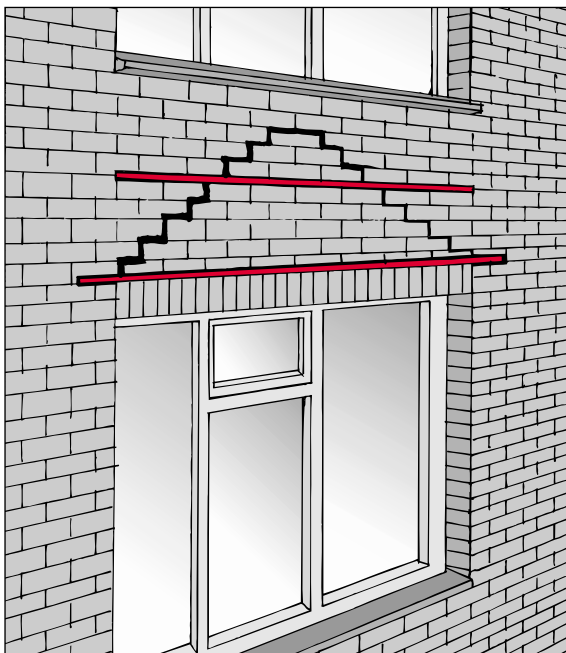
In addition to our own range of structural fixings, Clan have brokered relationships with many European companies, exchanging ideas enabling us to introduce new methods of repair, such as Xypex crystalline waterproofing, high strength concrete repair materials and the latest carbon fibre technology for repairing structures.

Our range of services is continuing to grow with our sister company, Thin Joint Technology, which supplies tools, fixings and mortars for construction using thin jointed aerated blockwork. TJT also supply coloured render systems, external wall insulation systems and decorative plasters.

For some years, standard building practice in many parts of the country utilised the structural capacity of the window frames. The masonry outer leaf was laid directly on to the window frame, omitting the lintels.

This type of construction is entirely satisfactory until such time that the windows are replaced, causing two significant problems. Primarily the removal of the window frame will result in the probable collapse of the brickwork whilst the frame has been removed. A secondary, but much overlooked problem, is that the new frames are not generally capable of supporting the load exerted by the brickwork, especially when the new windows have transom features.

Consideration should be given to both of these problems when specifying the lintel system. The Clan 3608 System overcomes both these short and long term deficiencies.



LINTEL SUPPORT 3608

Grade A2 stainless steel channel section specially designed to fit within most masonry bed joints, together with integral polypropylene sliding friction hangers and Clan GP3 two part polyester resin. The support system is complemented where necessary by the addition of Grade 304 stainless steel reinforcing rods, embedded in two part polyester resin.

The Clan 3608 Lintel Support system is used to enhance the load bearing capabilities of brickwork above an opening where the original lintel has failed under load, or has been omitted during construction. The sliding friction hangers are located in the stainless steel channel and within the perpend bed joint prior to being resin fixed into the perpend joints using Clan GP3 resin.

SPECIFICATION

The Clan 3608 Lintel Repair System comprises of 16swg cold rolled grade A2 stainless steel channel section which is less than 8mm thick and polypropylene sliding friction hangers. The support system is complemented where necessary with the addition of a secondary stainless steel fixing - PL tie.

APPLICATION

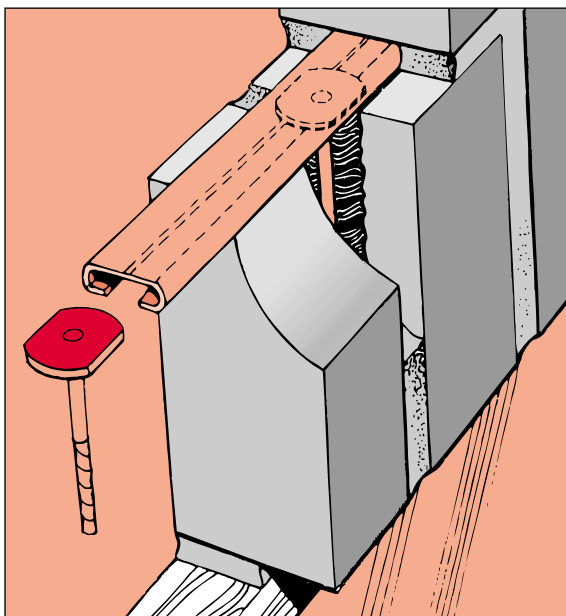
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PERFORMANCE

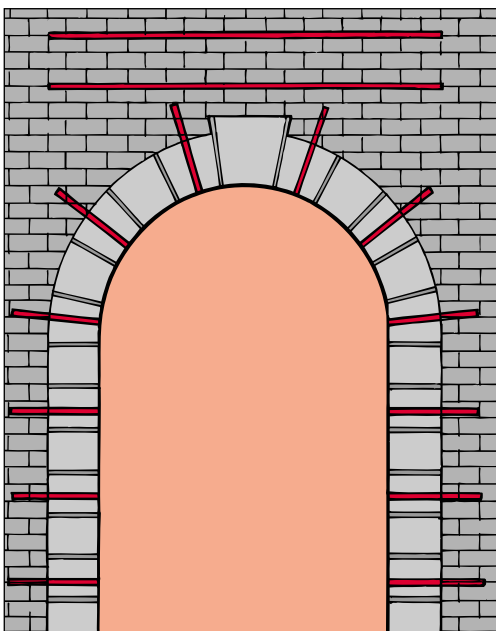
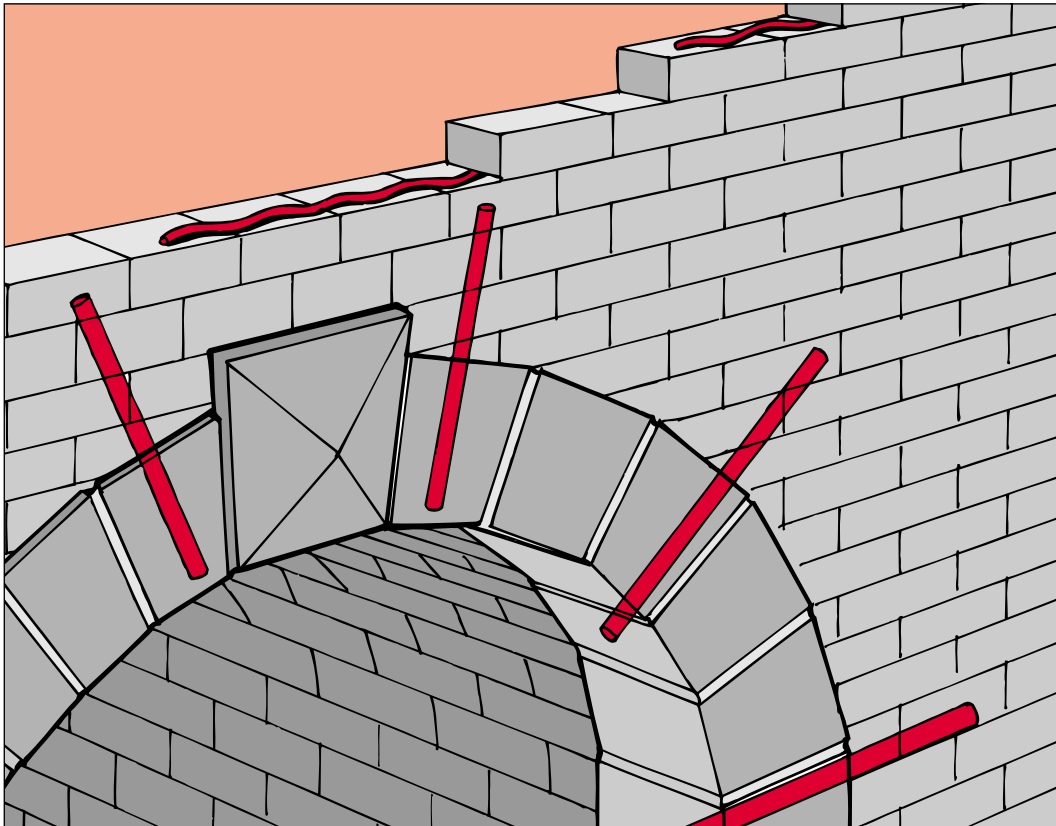
The Clan 3608 Lintel Support System is used in conjunction with Clan SF resin or GT4 cementitious grout, depending on the type of construction. All lintel systems are designed by our engineers, so please contact Clan Products for further information.

Patent applied for

50mm Embedment



SEE PAGE 4 FOR DETAILS OF CRACKTIES



ARCH SUPPORT

Adaptation of the 3608 support system, including the insertion of corbel ties, Clanstitch, Cracktie etc, can be utilised to repair masonry arch structures, such as road and rail bridges.

Installation of the above techniques minimises the need for rebuilding, preserving the aesthetics of the facade which becomes of paramount concern when dealing with historic or listed structures. Disruption to road and rail services is also reduced to a minimum.

In addition to the installation of Crackties etc, masonry arch and barrel vaulted structures can be repaired with the use of carbon fibre technology (see Mapewrap and Carboplate on page 24 and 25).

40mm Embedment

MASONRY DRILL 12mm

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