

Kirkyl Cladding System

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General description

This manual refers, in general terms, to the installation of the Kirkyl Cladding System (KCS) on Steel or Timber Frame. Any reference to 'bricks' in this manual includes stone and masonry products including schist. The KCS system is a brick cladding system comprising standard brick slips at 20mm thickness purpose cast, or cut from genuine clay bricks fitted to the proprietary KCS galvanised steel track. This system is mainly for use on chimneys, columns, feature walls and facades, but can be used in many other applications.

This system should not be used when stud spacing is greater than 600mm

Features

Standard 20mm thick brick slips and corners can be used. There is no requirement for any specifically cut bricks

The KCS system is installed horizontally and the brick corners and slips are placed individually before mortaring.

Product Description

The KCS system comprises a roll formed galvanized steel backing track which is securely fixed, screwed or nailed, to the steel frame or timber frame wall stud or battens. 20 mm real brick slips are bonded to the KCS track with mortar. This forms a medium weight real brick veneer which will withstand earthquakes. It is specifically designed for use on chimneys, to achieve the classic real brick chimney look but at the same time ensuring the safety of the occupants and the prevention of damage from historic standard brick chimney collapse.

Specified Components



20 mm brick, stone
or masonry slips



PVC Tape



Kirkyl KCS Track



Cemix Wallset



Cemix Colour Oxide



Cemix Sealant

Fasteners

Timber



Clout Nail
30 x 2.5



Wood Screw
10g x 35

Steel



Pan head Tek Screw
10g x 16

Equipment



PPE



Proper Access Equipment



Measuring Equipment

Tools



Cordless driver



Tin Snips



Mortar Gun

Specification of KCS track.

Track – Galvanized steel G 550 – Z450 - 0.75 gauge.

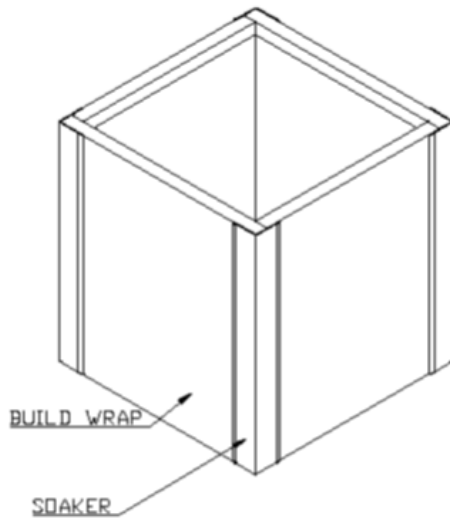
Installation details and drawings:

There are two possibilities for the installation:

- A. Direct fix, with the use of self draining Build Wrap.
- B. Fixing using battens over standard build wrap as specified in NZ 3604.

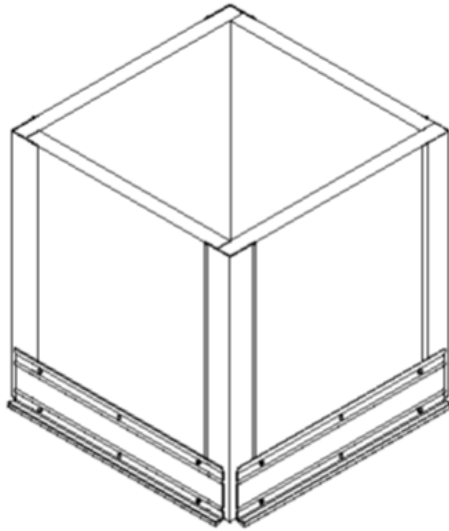
Any reference to “studs” in this manual also refers to cavity battens

Fig. 1



Once the building wrap has been applied to the framing according to the manufacturers specification, a Kirkykyl PVC corner soaker, is fixed in position on the corners, over the build wrap, but under the KCS track.

Fig.2



The first KCS track is secured to the studs. Depending on the job, the system can be started from the top or the bottom, whichever suits the builder and the specific job.

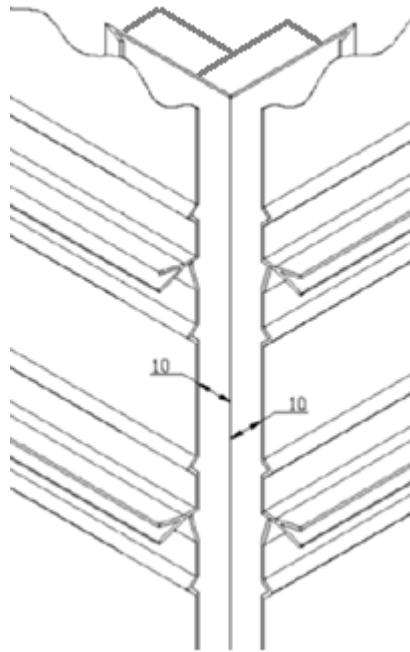
It is recommended that an initial complete track is installed across or around the whole job.

This track must be level and straight. The track can be nailed or screwed in position, but the nail and screw heads must be less than 3mm thick. Use two fixings at each stud, one over the top horizontal rib and one below the bottom horizontal rib.

The track is cut to length with standard tin snips, do not grind or cut with a saw.

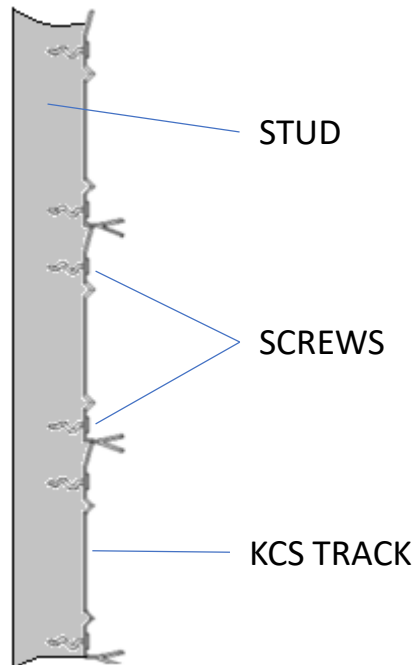
If the track is to be joined, the second track should butt up to the first track and a 5mm gap should be left between tracks at the join. Do not lap joints. The joint should be taped with PVC tape. Stagger any joints. All joints must be positioned on a stud or batten

Fig. 3



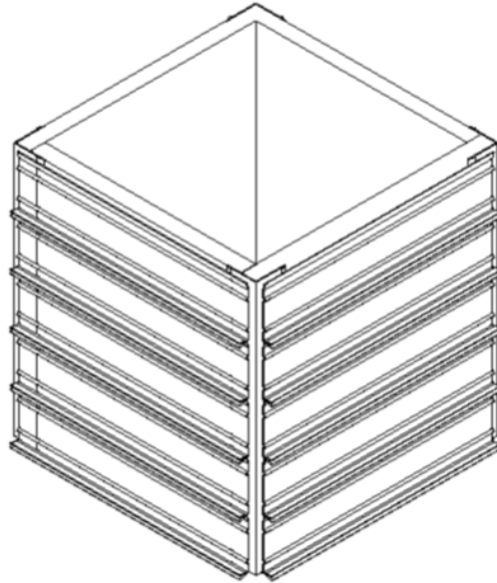
The tracks should stop about 10mm from the corner, over the soaker.

Fig. 4



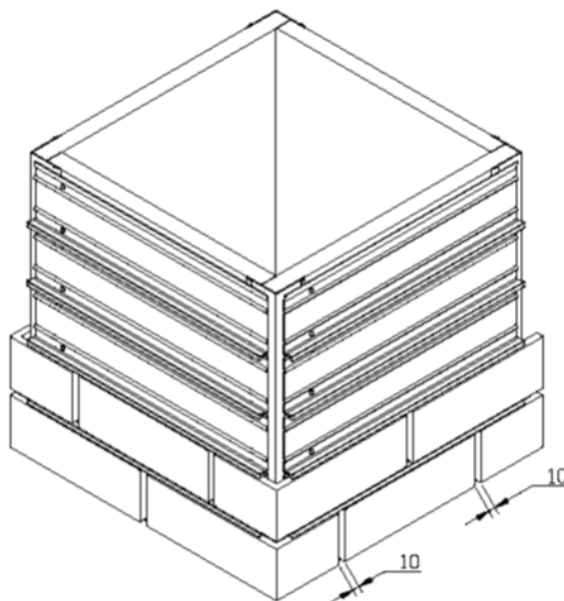
The second row of track is then placed on top of, or below, the first, (depending where the starting point was). The bottom lip of the upper track should sit squarely on the bevelled top lip of the lower track.

Fig. 5



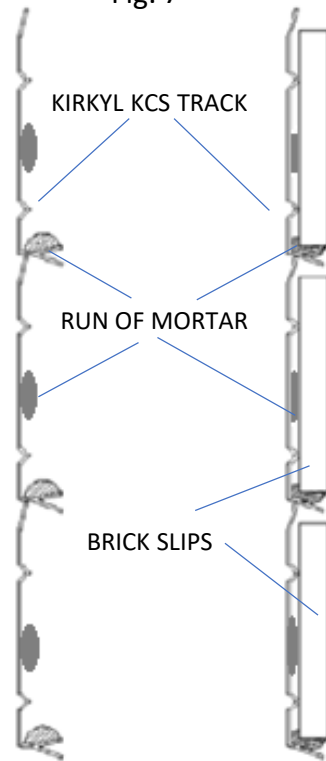
This process is continued over the remainder of the area being clad. Check for level after every 5 courses.

Fig. 6



At this point the brick slips can be placed in position. On a chimney frame or exterior corners, it is advised to install corners first and fill in with flat brick slips. It is also advisable to do two complete courses, either top or bottom, to ensure the spacing is correct. This will set the positioning for all the brick slips on the whole job. A gap of 10mm should be left between the bricks to form the vertical grout joint. No vertical joints are to be more than 12mm.

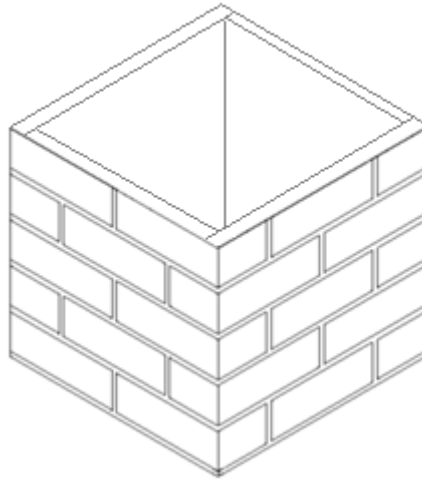
Fig. 7



A run of mortar is to be placed on top of all the splayed track lips, behind the splay. A small amount of mortar is also be placed on the track between the horizontal ribs for extra bonding. The brick slips are then positioned on the tracks and pressed against the back of the track. The bricks should make contact with the ribs on the track. Any bricks that need to be cut should be positioned away from the corners or any spot which is very visible, if possible.

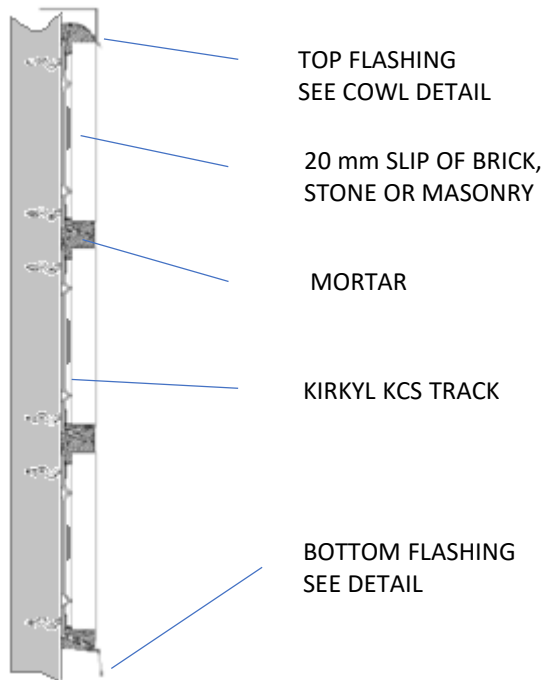
Check the overall layout and appearance and check that the brick slips and corners are all pressed against the back of the track before applying mortar.

Fig 8



The full grouting with specified mortar, Cemix Wallset is now applied to all the joints and pointed as required. The brick slips should be wet. Ensure that there are no gaps in the grouting, it is recommended to fill the mortar void. The Cemix Wallset is white in colour and can be suited to match by adding Cemix Colour Oxides. Clean any excess mortar before it dries.

Fig. 9

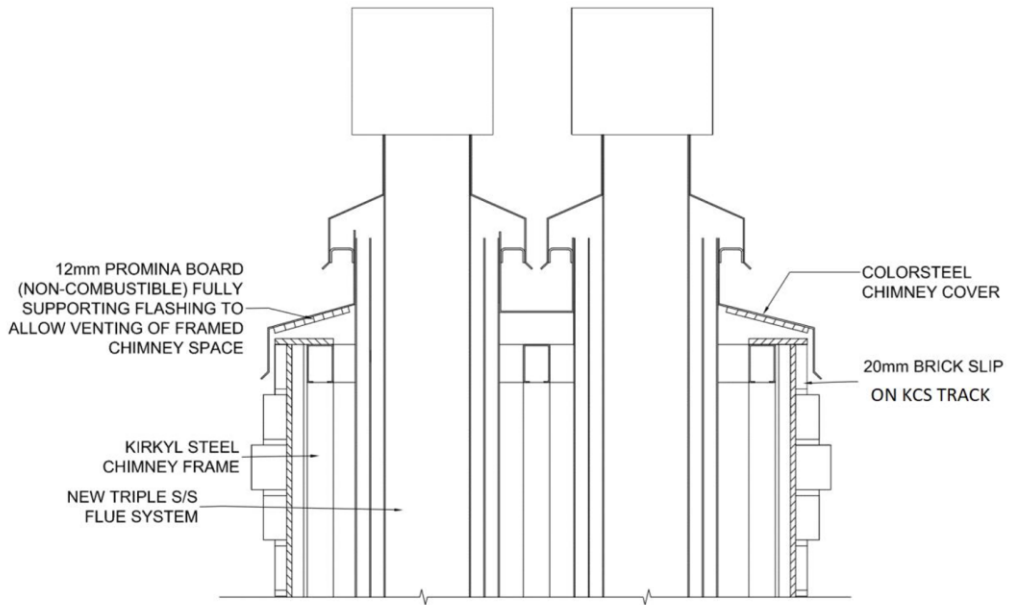


The top, bottom and any edges of the brick slip clad wall should be grouted and flashed as per details below. The system should be sealed using Cemix Cemseal.

DETAILED DRAWINGS

NOTE: All flashings must comply to the NZ building code

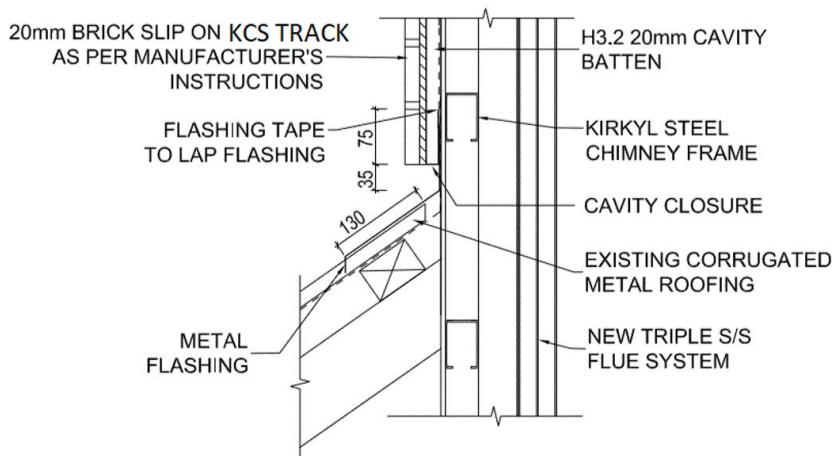
Fig 10



CHIMNEY COWL DETAIL

SCALE 1:10

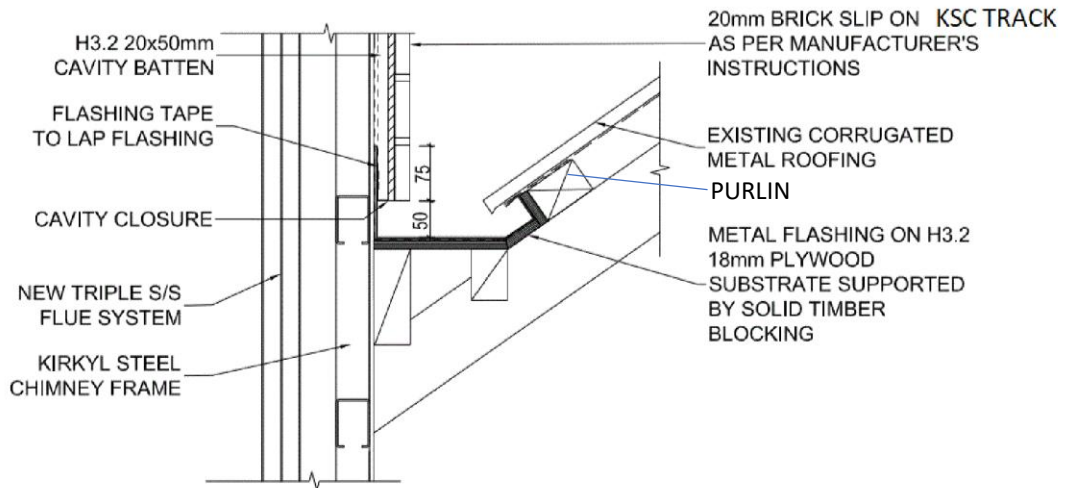
Fig 11



APRON FLASHING DETAIL

SCALE 1:10

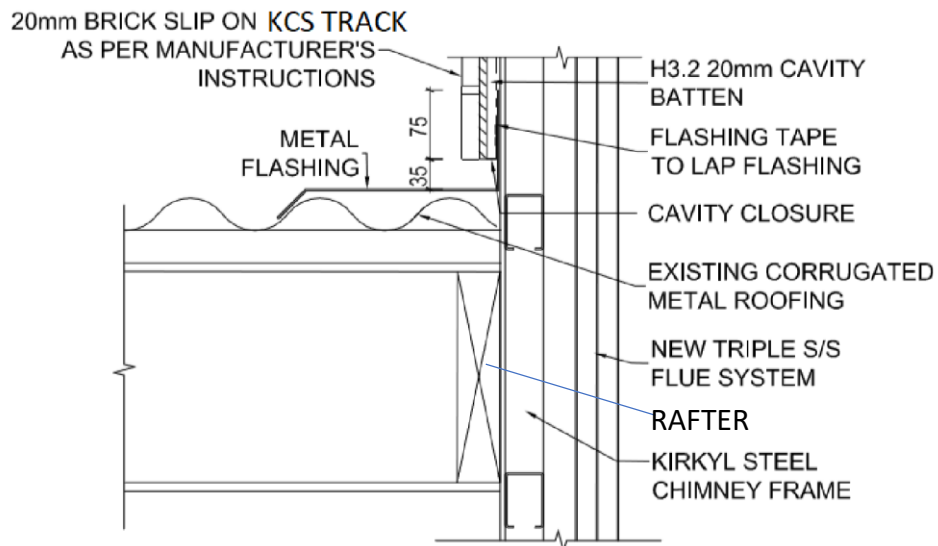
Fig 12



CHIMNEY INTERNAL GUTTER

SCALE 1:10

Fig 13



FLASHING DETAIL

SCALE 1:10

Fig 14

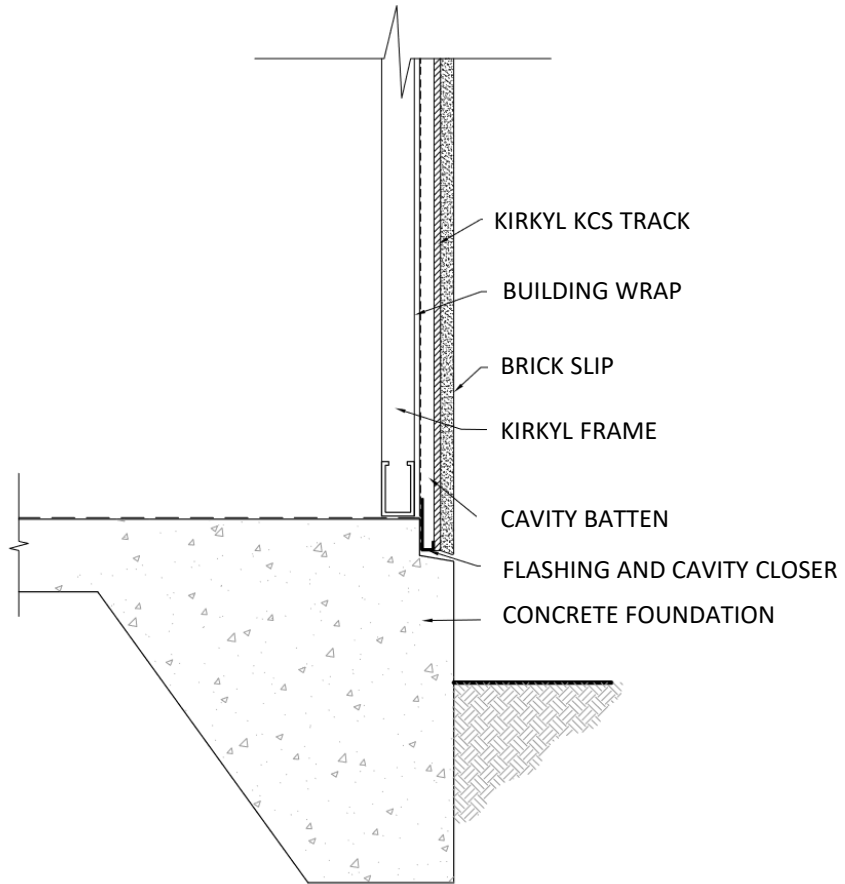
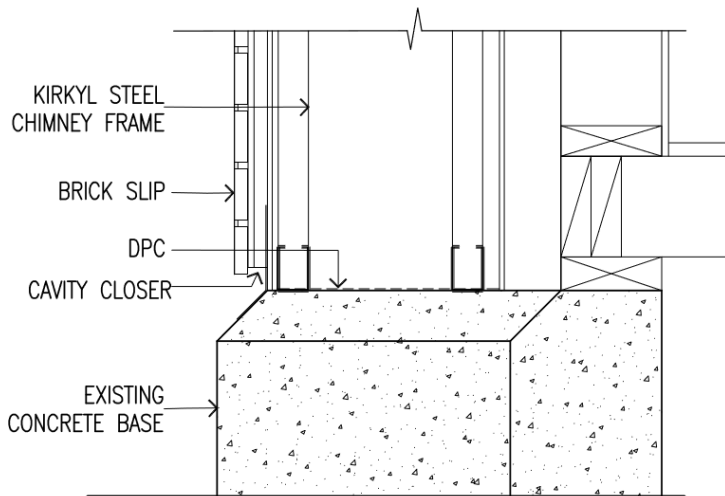


Fig 15



4 CHIMNEY FOUNDATION DETAIL
A.04 SCALE: 1:10