



12 November 2018

Kirkyl Limited  
 Kirkyl Cladding System  
 Mr Nigel Dickinson  
 15 Follis Street  
 Te Aroha

Dear Nigel,

**Re: Providing a Building Consent Authority with a Product Technical Statement.**

The DBH document 'Using the Product Assurance Framework to Support Building Code Compliance – A Guide for Manufacturers and Suppliers' suggests in section 6 "a new approach" for building Product manufactures to demonstrate compliance with relevant performance clauses of the New Zealand Building Code, by way of a 'Product Technical Statement'.

The key elements of a Product Technical Statement. are –

- Statement of Building Code compliance
- Scope of Use (including limitations)
- Consenting instructions

**A Product Technical Statement for:-**  
**BTS1806 'Kirkyl Cladding System'**  
 Version 1.0

1. Statement of Building Code Compliance

Kirkyl's 'Kirkyl Cladding System' (KCS) will comply with the following performance clauses of the New Zealand Building Code based on the evidence described in the relevant sections of this document.

- **B1 Structure**  
 B1.3.3 (a), (b), (f) & (h)                      Self-weight, Gravity load, Wind load & Earthquake
- **B2 Durability**  
 B2.3.1 (b)                                              Adhesion of cladding slips to steel tracks  
 B2.3.2 (a)                                              Durability of steel track over time
- **E2 External Moisture**  
 E2.3.2                                                      Wind and moisture resistance
- **F2 Hazardous Materials**  
 F2.3.1                                                      No hazardous materials used

## 2. Scope of Use (including limitations)

- 2.1 The Kirkyl KCS Cladding System is a rain screen and decorative finish installed over:
- 2.1.1 Building underlay approved for direct fix applications to timber or steel framing;
  - 2.1.2 Timber or plastic cavity battens.
- 2.2 200mm x75mm x 20mm thick 'slips' of brick, stone or masonry are adhered to proprietary galvanised steel tracks screwed to battens or building framing (timber or steel).  
This system is intended for use on chimneys, columns, feature walls and facades, and other applications where a rain screen is required.
- 2.2.1 The system is not be used with stud or batten spacings greater than 600mm;
  - 2.2.2 The total weight of the cladding slips plus track must not exceed 85kg/m<sup>2</sup>;
  - 2.2.3 The system must be installed and detailed as per the KCS training and installation manual;
  - 2.2.4 Timber framing to comply with NZ3604, or to specific engineering design;
  - 2.2.5 Light gauge steel framing to comply with NASH Standard for Residential and Low-rise Steel Framing, Parts 1 & 2, or to specific engineering design;
  - 2.2.6 Cladding slips must be maintained as described in the technical and installation manual;
  - 2.2.7 The system is suitable for wind zones up to and including Extra High (55m/s).

## 3. Consenting Instructions

This Product Technical Statement is based on BTS testing of samples, steel manufacturer data, review and assessment of technical information and manuals supplied by KCS. Web site: [www.kirkyl.co.nz](http://www.kirkyl.co.nz)

Note: Kirkyl Ltd has made an application for a product appraisal with BEAL Testing Services. [www.beal.co.nz](http://www.beal.co.nz)

## 4. Evidence of compliance

- 4.1 Clause B1.3.3 (a), (b) Self weight and gravity load  
BTS Buildability assessment, engineer's opinion
- 4.2 Clause B1.3.3 (f), (h) Earthquake, wind  
BTS Tensile adhesion test TR181023-1
- 4.3 Clause B2.3.1 (b) 15 years durability  
Cemix (sealer manufacturer) technical support information, expert opinion - IdeasLab
- 4.4 Clause B2.3.2 (a) Durability of steel track  
NZ Steel, Galvsteel™ durability statement, Nov 2008
- 4.5 Clause E2.3.2 (h) Wind and moisture resistance  
BTS Weather tightness test TR-180112-1
- 4.6 Clause F2.3.1 No hazardous materials used  
Expert opinion – C Prouse

## 5. Quality Assurance

Quality and verification of components used during installation is set out in the policies, procedures and checklists found in the Kirkyl Ltd KCS Building Product Quality Plan (BPQP). This document will be subject to an annual audit by BTS.