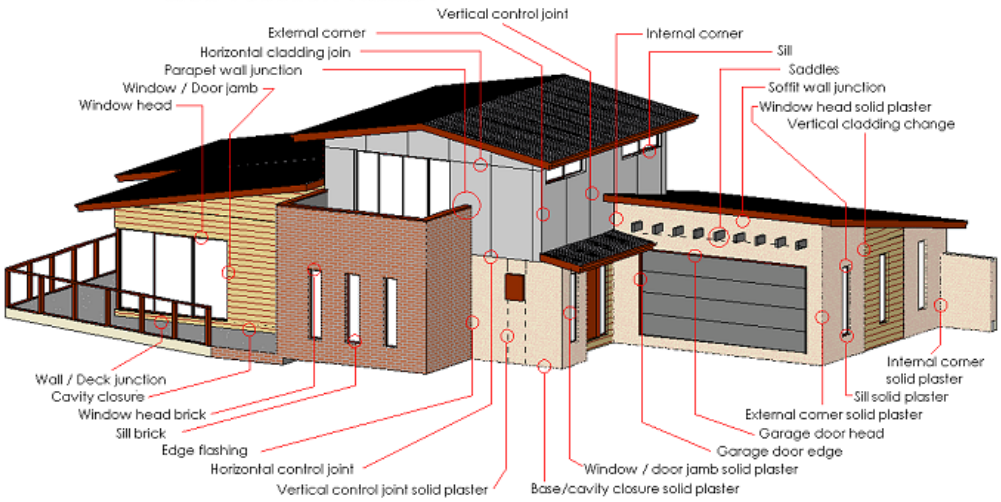
BRANZ Appraised

Appraisal No. 688 [2024]

QUICKFLASH READY-MADE FLASHINGS



Appraisal No. 688 (2024)

This Appraisal replaces BRANZ Appraisal No. 688 (2018)

BRANZ Appraisals

Technical Assessments of products for building and construction.

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Product

1.1 Quickflash Ready-Made Flashings are a range of pre-fabricated flashing products designed to meet the flashing requirements of NZBC Acceptable Solution E2/AS1. The flashings are available in Z450 galvanised steel, AZ 200 Zincalume with factory-applied paint coating, stainless steel or aluminium.

Scope

2.1 Quickflash Ready-Made Flashings have been appraised for use as flashings and cavity closers with wall cladding systems on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1; and,
- with weatherboard, fibre cement sheet, External Insulation and Finishing Systems (EIFS), stucco and plywood wall cladding systems complying with NZBC Acceptable Solution E2/AS1 or proprietary cladding systems covered by a valid BRANZ Appraisal; and,
- situated in NZS 3604 Wind Zones up to, and including, Extra High.

Building Regulations

New Zealand Building Code (NZBC)

3.1 **In the opinion of BRANZ, Quickflash Ready-Made Flashings, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:**

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. Quickflash Ready-Made Flashings meet these requirements. See Paragraphs 8.1-8.4.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. Quickflash Ready-Made Flashings contribute to meeting this requirement. See Paragraphs 11.1 and 11.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Quickflash Ready-Made Flashings meet this requirement.

Technical Specification

4.1 Sheet material specifications for the manufacture of Quickflash Ready-Made Flashings are:

- Galvanised steel coil: Z450 @ 0.55 mm thick.
- Stainless steel coil: Grade 304 @ 0.50 mm thick.
- AZ 200 Zincalume (Colorsteel Maxx) @ 0.55 mm thick with factory-applied coating.
- Aluminium coil: Grade 5005 H34 @ 0.70 mm thick.
- All flashings are supplied in 3 m lengths with the exception of joiners and saddle flashings.

4.2 Flashing components and accessories fabricated and supplied by Tasman Contracting Ltd are:

Flashing Type	Material Options: Galvanised Steel, Stainless Steel, Aluminium, or Colorsteel Maxx	Quickflash Code
Base and Cavity Closure Flashing	All Materials except Aluminium	01
Edge Flashing	All Materials	02
Internal Corner Flashing	All Materials	03
External Corner Flashing	All Materials	04
Vertical Control Joint Back Flashing	All Materials	05
Cavity Closure Flashing	All Materials	06
Horizontal Control Joint Flashing	All Materials	08
Brick Sill Flashing	All Materials except Aluminium	09
Base and Cavity Closure Flashing	All Materials except Aluminium	10
Cavity Closure Flashing	All Materials	11
Horizontal Control Joint Flashing	All Materials	12
Internal Corner Flashing	All Materials	13
External Corner Flashing	All Materials	14
Base and Cavity Jointer (for Code 01)	All Materials except Aluminium	15
Base and Cavity Jointer (for Code 10)	All Materials except Aluminium	16
Internal Corner Fillet Flashing (cladding <15mm)	All Materials	17
Internal Corner Fillet Flashing (cladding <40mm)	All Materials	18
Horizontal 'Z' Flashing – 12 mm Cladding	All Materials	20
Horizontal 'Z' Flashing – 20 mm Cladding	All Materials	21
Horizontal 'Z' Flashing – 40 mm Cladding	All Materials	22
Sill Flashing	All Materials	23
Window Head Flashing and Cavity Closure Flashing	All Materials	24 A
Window Head Flashing and Cavity Closure Flashing	All Materials	24 B
External Corner face flashing	All Materials	25
Internal Corner face Flashing	All Materials	26
Horizontal 'Z' Flashing – 6 mm Cladding	All Materials	27
Horizontal 'Z' Flashing – 7.5 mm Cladding	All Materials	28
Horizontal 'Z' Flashing – 10 mm Cladding	All Materials	29
Horizontal Base Flashing	All Materials	30
Vertical Control Joint Face Flashing	All Materials	32
Recessed Internal Corner Back Flashing	All Materials	33
Recessed External Corner Back Flashing	All Materials	34
Recessed Vertical Control Joint Back Flashing	All Materials	35
Cant Strip Cavity Closure Flashing	All Materials	36
Solid Plaster Cap Flashing	All Materials except Aluminium	37
Soffit Wall Junction Flashing	All Materials	38
Vertical Cladding Junction Flashing	All Materials	39
Internal Corner Flashing – offset 70 x 110 mm	All Materials	40
Vertical Control Joint Back Flashing 130 mm	All Materials	41
Sill Flashing	All Materials	42
Window Head Flashing (40 mm)	All Materials	43
Base and Cavity Cap	All Materials except Aluminium	44
Base and Cavity Cap	All Materials except Aluminium	45
Adjustable Head Flashing (20 to 30 mm)	Aluminium	49

Adjustable Head Flashing (30 to 50 mm)	Aluminium	50
Adjustable Head Flashing (50 to 85 mm)	Aluminium	51
Sill Flashing (Flat)	All Materials	52
Saddle Flashing Single (140 x 45 Joist)	Stainless Steel	101
Saddle Flashing Single (190 x 45 Joist)	Stainless Steel	102
Saddle Flashing Single (240 x 45 Joist)	Stainless Steel	103
Saddle Flashing Single (290 x 45 Joist)	Stainless Steel	104
Double Saddle Flashing (190 x 90 Joist)	Stainless Steel	105
Double Saddle Flashing (290 x 90 Joist)	Stainless Steel	106
Parapet or Balustrade Saddle Flashing - Left Hand	Stainless Steel	107
Parapet or Balustrade Saddle Flashing – Right Hand	Stainless Steel	108

Handling and Storage

5.1 Handling and storage of all materials supplied by Tasman Contracting Ltd, whether on-site or off-site, is under the control of the installer. Quickflash Ready-Made Flashings components must be protected from physical damage and must be stored in clean, dry conditions.

Technical Literature

6.1 This Appraisal must be read in conjunction with:

- Quickflash Ready-Made Flashings (c) Quickflash 2017, Details 01-06, 08-18, 20-23, 24A, 24B, 25- 30, 32-45, 49-52, 101-108.

6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

7.1 Quickflash Ready-Made Flashings can be used as an alternative to the flashings specified within NZBC Acceptable Solution E2/AS1.

7.2 Where a proprietary cladding manufacturer specifies a particular flashing system as part of their system, permission must be obtained from the cladding manufacturer before the flashing system is substituted with Quickflash Ready-Made Flashings.

7.3 Where Quickflash Ready-Made Flashings are used with other cladding systems not covered by the Appraisal (refer to Paragraph 2.1), designers must detail the junction between the Quickflash Ready-Made Flashings and the cladding to meet their own requirements and the performance requirements of the NZBC. Details not included within the Technical Literature have not been assessed and are outside the scope of this Appraisal.

Durability

8.1 All materials used in the fabrication of Quickflash Ready-Made flashings are acceptable materials as set out in NZBC Acceptable Solution E2/AS1, Table 20.

8.2 Selection and use of the correct material for flashings in relation to Corrosion Zones B, C, D and E as specified in NZBC Acceptable Solution E2/AS1, Table 20 is the responsibility of building designers.

Serviceable Life

8.3 Quickflash Ready-Made Flashings are expected to have a serviceable life equal to that of the cladding, provided the appropriate flashing material is selected and the flashings are maintained in accordance with this Appraisal.

8.4 On exposure to the environment, Quickflash Ready-Made Flashings may gradually lose their original surface finish. A faster reduction in appearance, and a reduction in serviceable life can be anticipated in severe industrial, geothermal, and marine exposures.

Maintenance

9.1 Regular maintenance is essential for Quickflash Ready-Made Flashing installations to continue to meet the NZBC durability performance provision and to maximise their serviceable life.

9.2 Annual inspections must be made to ensure that all aspects of the cladding and flashing system, and any sealed joints remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress must be repaired immediately.

9.3 Regular cleaning (at least annually) of Quickflash Ready-Made Flashings is recommended to remove grime, dirt and organic growth and to maximise the life and appearance of the surface finish. Build-up of residue, mould or dirt can be removed by brushing with a soft brush, warm water and detergent. Abrasive cleaners, thinners, solvents or petrol must not be used to clean Quickflash Ready-Made Flashings. Painting may be considered necessary at some stage during the life of the flashings to restore appearance. Painting must be carried out in strict accordance with the instructions of the paint manufacturer for the painting of coated steel, stainless steel or aluminium.

Prevention of Fire Occurring

10.1 Quickflash Ready-Made Flashings are considered non-combustible materials and need not be separated from heat sources such as fireplaces, heating appliances, flues and chimneys. However, when used in conjunction with, or attached to heat sensitive materials, the heat sensitive material must be separated from heat sources such as fireplaces, heating appliances and chimneys. Part 7 of NZBC Acceptable Solution C/AS1 and NZBC Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

External Moisture

11.1 Quickflash Ready-Made Flashings, when installed in accordance with this Appraisal and the Technical Literature, assist in preventing the penetration of moisture that could cause undue dampness or damage to building elements.

11.2 The details given in the Technical Literature for weather sealing are based on the design principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing flashings and wall interfaces as shown in NZBC Acceptable Solution E2/AS1 and the Technical Literature. Weathertightness details that are developed by the designer are outside the scope of this Appraisal and are the responsibility of the designer for compliance with the NZBC.

Installation Information

Installation Skill Level Requirement

12.1 All design and building work must be carried out in accordance with the Quickflash Ready-Made Flashings Technical Literature and this Appraisal, by competent and experienced tradespersons conversant with the Quickflash Ready-Made Flashings. Where the work involves Restricted Building Work (RBW), this must be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant License Class.

System Installation

Quickflash Ready-Made Flashings Installation

13.1 Quickflash Ready-Made Flashings are supplied to site at standard 3 m lengths and are cut to fit on-site.

13.2 Quickflash Ready-Made Flashings must be used and installed in conjunction with the selected cladding system in accordance with the installation methods and requirements of NZBC Acceptable Solution E2/AS1, or the proprietary cladding system manufacturer.

Finishing

13.3 Quickflash Ready-Made flashings do not require painting at the completion of installation. If the flashings are painted, the paint manufacturer's instructions for painting of the selected flashing material must be followed.

Basis of Appraisal

The following is a summary of the technical investigations carried out:

Investigations

14.1 The following assessment of Quickflash Ready-Made Flashings has been completed by BRANZ:

- BRANZ expert opinion on NZBC E2 code compliance for Quickflash Ready-Made flashings was based on evaluation of all details within the scope and as stated within this Appraisal. The details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the flashings will meet the performance levels of NZBC Acceptable Solution E2/AS1.

14.2 The practicability of installation has been assessed by BRANZ.

14.3 The Technical Literature for Quickflash Ready-Made Flashings has been examined by BRANZ and found to be satisfactory.

Quality

15.1 The manufacture of Quickflash Ready-Made Flashings has been examined by BRANZ, and details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.

15.2 The quality of materials, components and accessories supplied by Tasman Contracting Ltd is the responsibility of Tasman Contracting Ltd.

15.3 Quality on-site is the responsibility of the flashing installer.

15.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of the framing systems, building wraps, flashing tapes, air seals, cladding system and Quickflash Ready-Made Flashings, in accordance with the instructions of the designer.

15.5 Building owners are responsible for the maintenance of Quickflash Ready-Made Flashings and the cladding system, in accordance with the instructions of Tasman Contracting Ltd and the designer.

Sources of Information

- NZS 3604:2011 Timber-framed buildings.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

BRANZ

In the opinion of BRANZ, Quickflash Ready-Made Flashings are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to Tasman Contracting Ltd, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
   a) relates only to the product as described herein;
   b) must be read, considered and used in full together with the Technical Literature;
   c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
   d) is copyright of BRANZ.
2. Tasman Contracting Ltd:
   a) continues to have the product reviewed by BRANZ;
   b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
   c) abides by the BRANZ Appraisals Services Terms and Conditions;
   d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
   a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
   b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
   c) any guarantee or warranty offered by Tasman Contracting Ltd.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to Tasman Contracting Ltd or any third party.

For BRANZ

Claire Falck
Chief Executive

Date of Issue:
13 August 2024