



Keays Engineering

First Floor
367 North Road
Caulfield South 3162
Victoria Australia

Phone & Fax:
(03) 9578 5844

Form 11

Building Act 1993
Building Regulations 2006
Regulation 1507
Certificate of Compliance - Design

TO

Relevant Building Surveyor

FROM

Building Practitioner
Russell Horwood Keays Category: Civil Engineer
33 Marara Road
Caulfield South Vic. 3162

I prepared the design and I certify that the part of the design described as "Adjustable Gutter Support Brackets", complies with the following provisions of the Regulations:-

B.C.A. Part B1 Structural Provisions

DESIGN DOCUMENTS

Attached brochure, dimensioned drawing, and following Notes:

- Bracket is suitable for design water depths up to 300mm.
- Bracket spacing is 1000mm maximum for gutter widths up to 800mm.
- Reduce maximum bracket spacing to 800mm for 900mm width, and 575mm for 1000mm width, or reduce the design water depth in proportion.
- Where overlap between the two telescoping sections is less than 140mm, fix the webs of the inner section to the webs of the outer section with a #8 screw at 20mm short of the inside end of the inner section.
- End straps should be fixed to supporting gutter purlins with one #10 screw (steel purlins) or two #10 screws (timber purlins).

SIGNATURE

Signed

Date: 27/9/07

Russell Horwood Keays, Civil Engineer,
Registered Building Practitioner, Registration Number EC-2223



Keays Engineering

First Floor
367 North Road
Caulfield South 3162
Victoria Australia

Phone & Fax:
(03) 9578 5844

10 July 2011

Anton Buenemann
Aldeck Roofing (Vic) Pty Ltd
PO Box 329
Thomastown 3074

Dear Sir,

ADJUSTABLE GUTTER SUPPORT BRACKET

1. You asked for some amplification on the design capacity of the Adjustable Gutter Support Bracket covered by my "Form 11" dated 27/9/07.
2. The design complies with the requirements of BCA Part B1 Structural Provisions. This section of the BCA calls up AS/NZS 1170. The relevant provisions of AS/NZS 1170 are the load factors in AS/NZS 1170.0, and the values in Table 3.2 Type R2, in AS/NZS 1170.1. Note the critical case is a gutter filled to the nominated depth (300mm) with the load of a man superimposed on the gutter above the bracket.
3. The Form 11 covers the three sizes of bracket (250-400, 400-650, and 650-1000) shown in the attached brochure. All are suitable for the 300mm water depth. Spacing of 1000mm applies to all but the widest gutters. The overlap provision may apply to the narrower brackets; for instance, the 250-400 bracket will only have 100mm of overlap at 400 length, and so require screws.
4. I hope this clarifies the situation.

Regards,

Dr Russell Keays