TECHNICAL NOTE

Valley Catchment for AS/NZS 3500.3

AS/NZS 3500.3:2018 outlines the requirements for the valley gutter capacity, specifically Section 3.6.2, Table 3.6.2, which specifies the minimum dimensions for valley gutters at various rainfall intensity values. Figure 3.6.1 outlines the limitations of the profile of a typical valley gutter.

Gerard valley designs deviate from the standard 3-fold valley design profile outlined in Figure 3.6.1. Gerard's valley profiles allow for a greater cross-section in various rainfall intensity ranges, compared to the cross-sectional areas derived from Table 3.6.2.

Pages 2 and 3 of this Technical Note outline the total catchment cross-sectional areas of the prescribed 3-fold valleys from AS/NZS 3500.3 and the total catchment cross-sectional areas of the Gerard valley range. When designing for rainfall management, these catchment areas may be used for their applicable design rainfall intensities.

Gutter Catchment Requirements

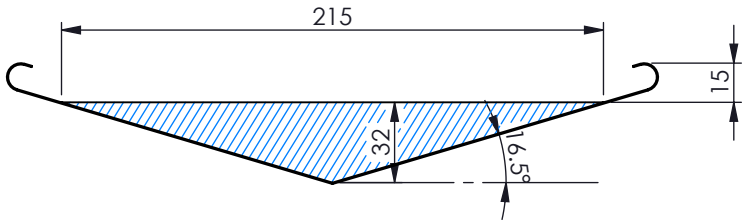
Design rainfall intensity		**AS/NZS 3500.3**
	≤200	3423mm²
>200	≤250	4055mm²
>250	≤300	4778mm²
>300	≤350	5519mm²
>350	≤400	6314mm²

*derived from Table 3.6.2 and Figure 3.6.1 AS/NZS 3500.3:2018

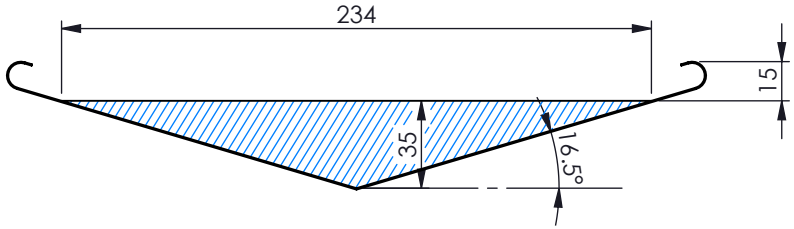
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Valley Gutter Dimensions and Catchment Cross-Section Areas as per AS/NZS 3500.3:2018, Table 3.6.2

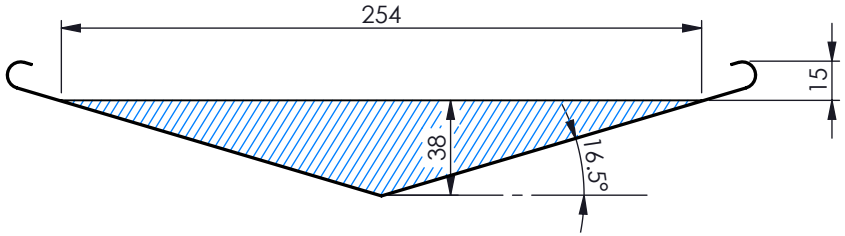
Valley Gutter <200 mm/hr Rainfall intensity
Catchment cross-sectional area: **3,423 mm²**



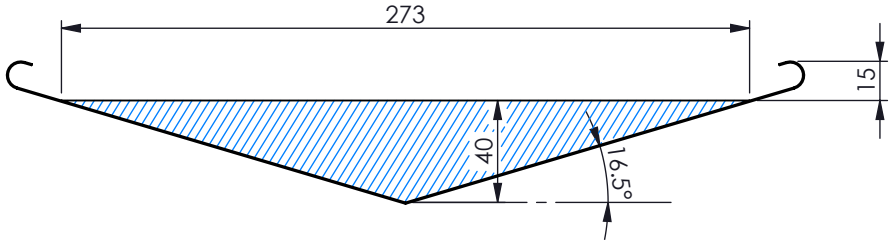
Valley Gutter 200 < 250 mm/hr Rainfall intensity
Catchment cross-sectional area: **4,055 mm²**



Valley Gutter 250 < 300 mm/hr Rainfall intensity
Catchment cross-sectional area: **4,778 mm²**



Valley Gutter 300 < 350 mm/hr Rainfall intensity
Catchment cross-sectional area: **5,519 mm²**



Valley Gutter 350 < 400 mm/hr Rainfall intensity
Catchment cross-sectional area: **6,314 mm²**

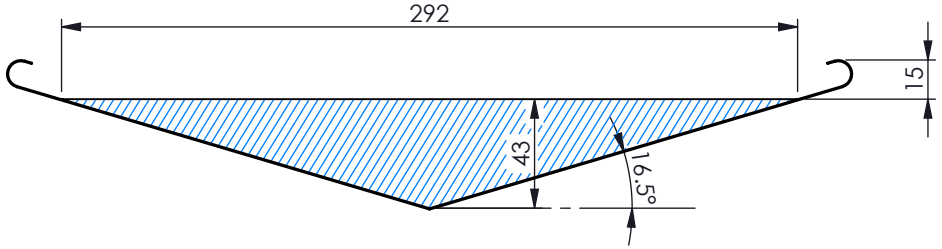


TABLE 3.6.2

VALLEY GUTTERS—DIMENSIONS

Design rainfall intensity mm/h		Minimum, mm		
		Sheet width	Effective depth (h_e)	Effective width (w_e)
	≤200	355	32	215
>200	≤250	375	35	234
>250	≤300	395	38	254
>300	≤350	415	40	273
>350	≤400	435	43	292

NOTES:

1 This Table is derived from Martin and Tilley.

2 Freeboard (h_f), 15 mm.

3 The sheet width from which the valley is to be formed has been calculated on the basis of h_f = 15 mm and an allowance for side rolls or bends of 25 mm.

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TITLE: Valley Gutter_AS.NZS 3500.3-2018 Table 3.6.2

SCALE: 1:3

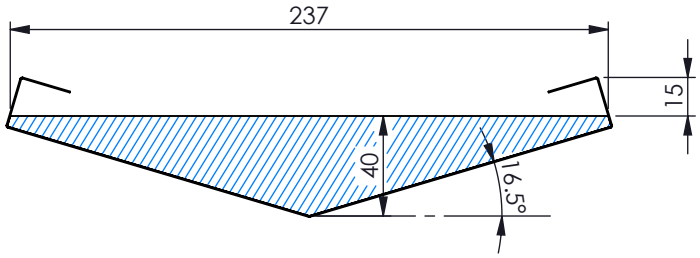
SHEET: 1 OF 1

ALL DIMENSIONS ARE IN MILLIMETRES

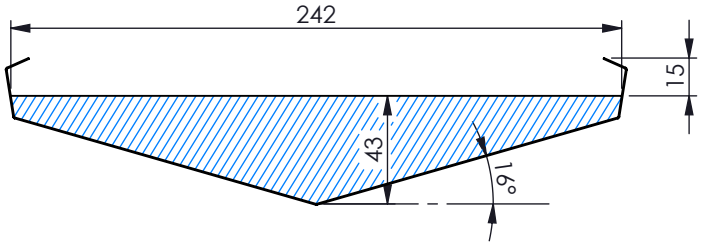
Gerard Valley Gutter Catchment Cross-Section Areas

STANDARD VALLEY GUTTERS

116 Wide Valley
Catchment cross-sectional area: **5,251 mm²**

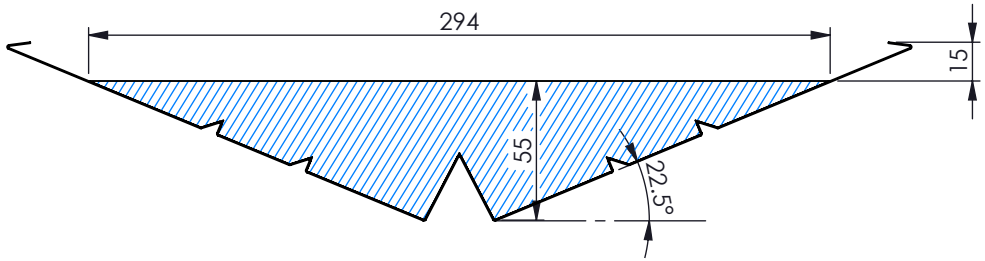


140 E2 Wide Valley
Catchment cross-sectional area: **6,168 mm²**

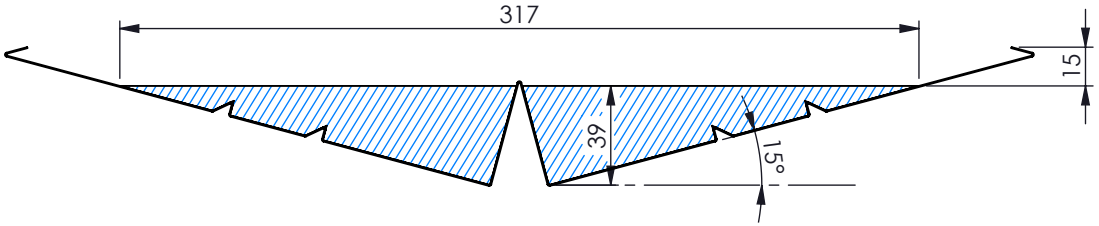


CF VALLEY GUTTERS

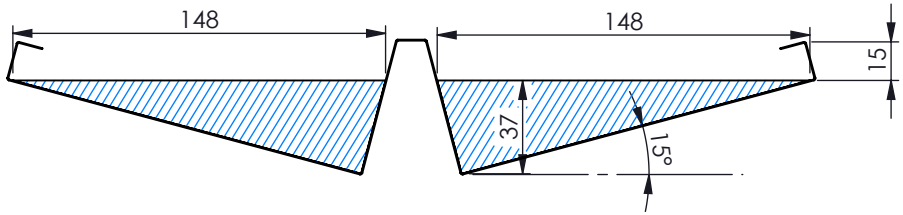
412 CF Slate Valley
Catchment cross-sectional area: **8,428 mm²**



906 CF Shake/Shingle Valley
Catchment cross-sectional area: **6,109 mm²**



553 Calibre Valley
Catchment cross-sectional area: **5,473 mm²**



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