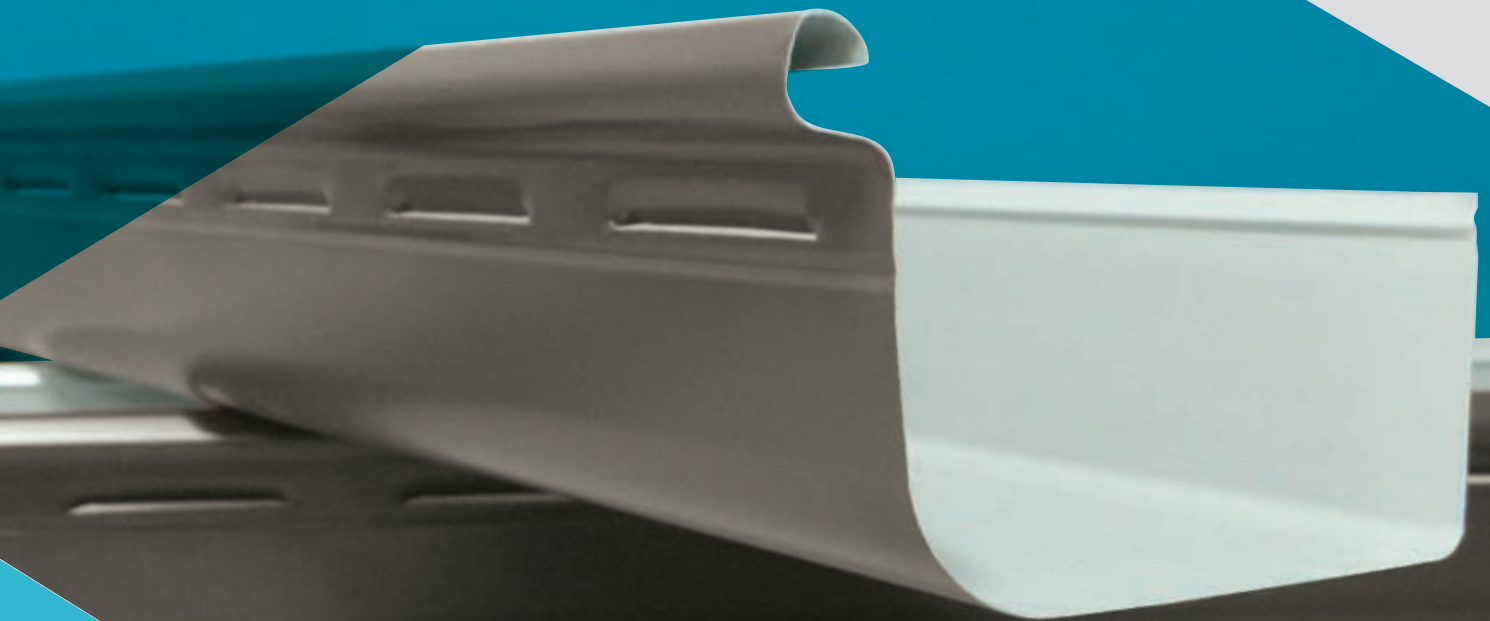


# QUAD 115 HI-FRONT XL SLOTTED GUTTER

**LYSAGHT**

FOR OVERFLOW AT THE FRONT OF THE LYSAGHT®  
QUAD GUTTER HI-FRONT XL SLOTTED GUTTER INSTALLED  
ONTO LYSAGHT NOVALINE® FASCIA



Note: Gutter is manufactured with a fluted base in some regions.

# LYSAGHT® QUAD 115 HI-FRONT XL SLOTTED GUTTER

The LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter is available to assist in managing water overflow. When installed on to the LYSAGHT NOVALINE® Fascia to provide rainwater overflow capacity to the eaves/roof drainage system as a performance solution.

The installation of the new LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter will provide overflow capacity. Testing and modelling undertaken by Lysaght has demonstrated that sufficient overflow capacity can be achieved in most domestic residences in Australia when the slots are used by itself as an overflow device.

## BENEFITS

- The LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter design is based on there being minimal change to the current industry accepted installation practices and minimal change to the aesthetic acceptability of the roof drainage system installation.
- The LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter does not require a nominal gap between the LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter and the LYSAGHT NOVALINE® Fascia.

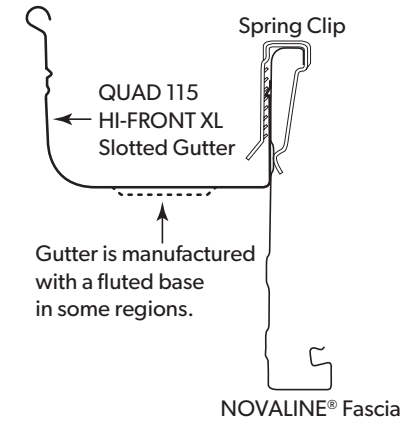
## FEATURES

- Slot is formed by the material being slit horizontally and the upper surface protruding inwardly into the gutter.
- Slot nominal overall length of 65mm with spacing of 90mm (centre to centre). The resulting nominal clear opening area of each slot is 185mm<sup>2</sup>.

## OVERFLOW CAPACITY

The LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter has the following overflow capacity based on testing:

- The slots will provide overflow capacity to the equivalent of 0.70L/s/m length of gutter when the gutter is installed at the highest practical level Barb 6 of the Spring Clip (refer to attached diagram for Spring Clip and barb numbers) and a gutter slope of 1:500 or steeper.
- The slots will provide overflow capacity to the equivalent of 0.85L/s/m length of gutter when the gutter is installed at the lower level at Barb 5 of the Spring Clip and a gutter slope of 1:500 or steeper (for shallower slopes use an overflow capacity of 0.70L/s/m length of gutter).
- The slots will provide overflow capacity to the equivalent of 0.97L/s/m length of gutter when the gutter is installed at the lower level at Barb 4 of the Spring Clip and a gutter slope of 1:500 or steeper (for shallower slopes use an overflow capacity of 0.85L/s/m length of gutter).
- For the installation of the LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter refer to the LYSAGHT NOVALINE® Fascia System brochure.
- For the cross-sectional area (capacity) of the LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter refer to the regional Rainwater Solutions brochure.



Gutter is manufactured with a fluted base in some regions.

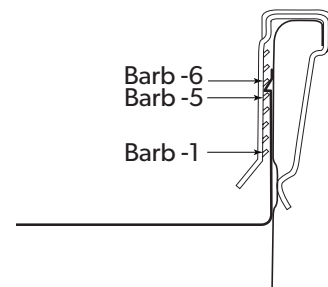
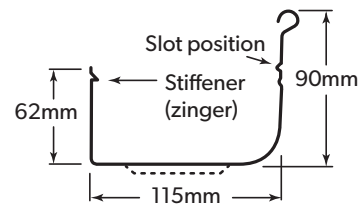
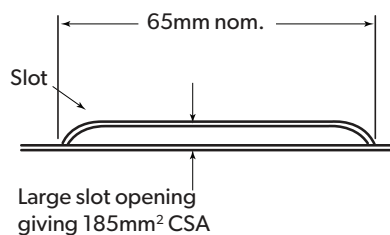


Image shows the gutter set at Barb 5



Gutter is manufactured with a fluted base in some regions.



## ROOF DRAINAGE SYSTEM DESIGN

Roof drainage systems should be designed and detailed by a suitably qualified trade or professional in accordance with the National Construction Code (NCC), Australian Standards and local regulatory requirements. Particular reference should be made to the correct selection of gutter, quantity and placement of downpipes and the provision of appropriate overflow device.

### THE LYSAGHT SOLUTION OF DOMESTIC GUTTER OVERFLOW

Where high-fronted gutters are installed, the NCC (and reference standard AS/NZS 3500.3) requires that provision be made to avoid any overflow back into the roof or building structure.

The new LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter, when installed as per the requirements set out in this publication, shall be installed as a performance solution in accordance with the NCC to meet overflow provision “performance requirements” for eaves gutters to prevent roof rainwater entry to a building.

Use of the LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter as a performance solution to eaves gutter overflow provisions set out in the Plumbing Code of Australia (PCA) has only been tested by Lysaght when installed as a proprietary system with LYSAGHT NOVALINE® Fascia. Installation of other products is untested by Lysaght.

Lysaght has confirmed that the LYSAGHT® QUAD 115 Hi-Front XL Slotted Gutter, when installed in conjunction with LYSAGHT NOVALINE® Fascia, meet the performance requirements relating to overflow provisions as set out in the PCA. Lysaght has not sought any confirmation relating to the installation of other gutter or fascia products whatsoever. Lysaght does not warrant or guarantee compliance with the PCA and/or effective hydraulic performance when installed with any product other than LYSAGHT NOVALINE® Fascia.

For further information please contact your local service centre.

## OVERFLOW VOLUMES

It is the designer’s responsibility to determine the overflow volumes on a roof drainage system. The table is based on the NCC 2016 (Table 3.5.2.3a Overflow Volumes) and provides a guide to the overflow volumes for differing roof lengths and rainfall intensities. Simply select the appropriate rainfall intensity and roof length for the roof and then extract the overflow volume. Then select the appropriate setting of the gutter.

### OVERFLOW VOLUME FOR CONTINUOUS MEASURES (L/S/M LENGTH OF GUTTER)

Rainfall Intensity mm/hr	Length of roof - L m							
	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
1:100 years								
100	0.06	0.11	0.17	0.22	0.28	0.33	0.39	0.44
125	0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56
150	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67
175	0.10	0.19	0.29	0.39	0.49	0.58	0.68	0.78
200	0.11	0.22	0.33	0.44	0.56	0.67	0.78	0.89
225	0.13	0.25	0.38	0.50	0.63	0.75	0.88	1.00
250	0.14	0.28	0.42	0.56	0.69	0.83	0.97	1.11
275	0.15	0.31	0.46	0.61	0.76	0.92	1.07	1.22
300	0.17	0.33	0.50	0.67	0.83	1.00	1.17	1.33
325	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44
350	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56
375	0.21	0.42	0.63	0.83	1.04	1.25	1.46	1.67
400	0.22	0.44	0.67	0.89	1.11	1.33	1.56	1.78

Notes:

1. Based on the NCC 2016, Overflow Volumes (Table 3.5.2.3a).
2. The rainfall intensities is for a 5min storm duration for an Average Recurrence Interval of 1:100 years (reference BCA/NCC 2016).
3. For the Roof Length values no allowance has been given for drainage from upper roof or wall surfaces, and no allowance has been given to roof penetrations, dormers, valleys and the like.
4. A guide to the rainfall intensity for your area is provided in the regional Rainwater Solutions brochure, which is available at [www.lysaght.com](http://www.lysaght.com).

## PRODUCT DESCRIPTIONS

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- (b) alter specifications shown in its promotional literature to reflect changes made after the date of such publication.

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