

STORMWATER MANAGEMENT PLAN

AS/NZ 3500.3

ARI = 206 (Table 7.4.3ABCB Housing Provisions Standard (2002) - (Table 1)

Lysaght 150 Half Round Gutter (non slotted) with 100mm downpipes to be installed at a gradient >1:500

Effective cross section = 7042 (Table 2)

Maximum Catchment Area per down pipe = 37sqm (Figure 1)

- New Drainage and 100mm round down pipes to be installed and linked with existing - 100mm stormwater pipe
- Existing Drainage and down pipes- 100mm stormwater pipe

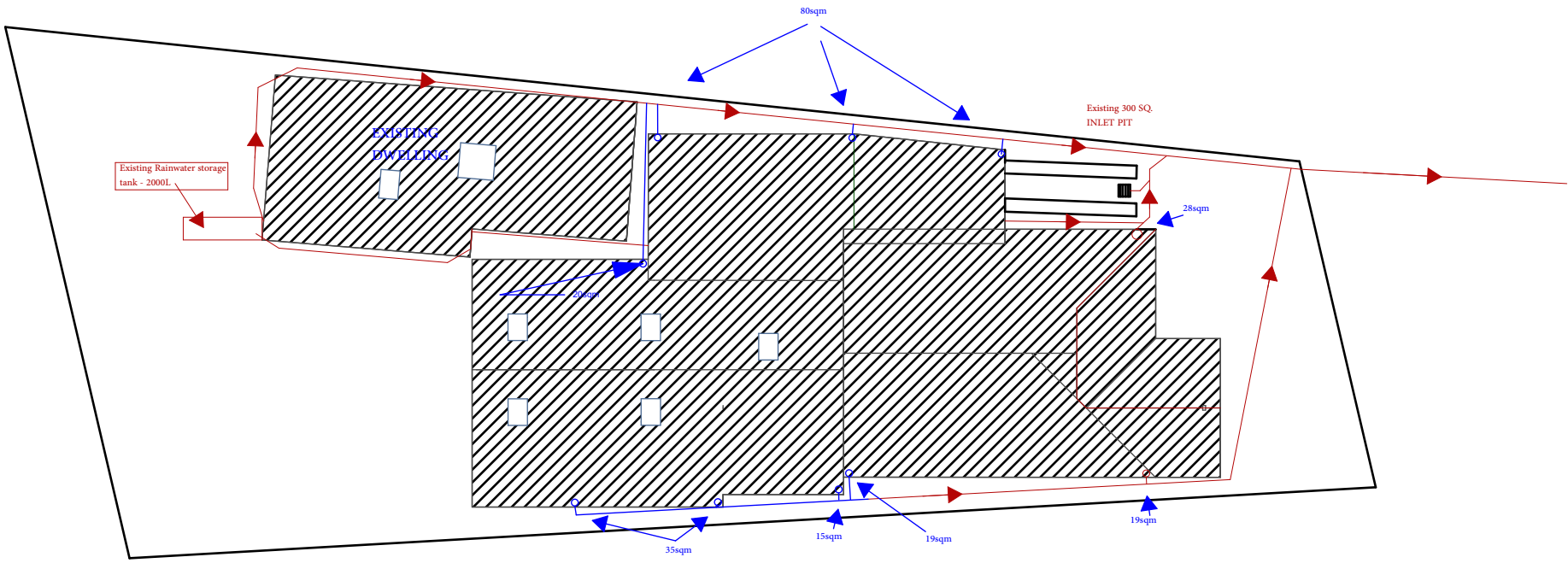


Table 1

Design rainfall intensities adopted from Table 7.4.3d of the ABCB Housing Provisions Standard (2022).

	ARI once in 20 years mm/hr	ARI once in 100 years mm/hr
ACT		
Canberra	143	192
Gungahlin	137	179
Tuggeranong	148	210
New South Wales		
Albury	139	180
Broken Hill	143	219
Goulburn	121	156
Kiama	226	319
Newcastle	226	316
Orange	142	186
Sydney	200	262
Avalon	206	278
Campbelltown	167	222
Pennrith	180	244
Windsor	175	233
Tweed Heads	252	330
Wollongong	217	308

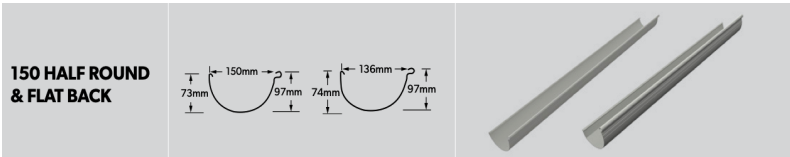


Table 2

LYSAGHT® gutter cross-sectional areas and downpipes.

Minimum standard downpipe sizes to suit gutters (gutter gradient ≥ 1:500)				
	Slotted	Effective # cross section	Round (diameter)	Rectangular or square
	yes/no	mm²	mm	mm
Quad Hi-front	yes	5225	90	100x50
	no	5809	90	100x50
Quad Lo-front	no	6165	90	100x50
	yes	7600	100	100x75
SHEERLINE®	no	8370	§	100x75
	yes	6244	90	100x50
TRIMLINE®	no	7800	100	100x75
	yes	4675	90	100x50
150 Half Round	yes	4602	90	100x50
	no	7042	100	100x75
150 Half Round Flat Back	yes	4602	90	100x50
	no	6914	100	100x75
Half Round 200	no	14500	§	§
Half Round 250	no	24500	§	§
Half Round 300	no	35300	§	§

Values calculated in accordance with AS/NZS 3500.3.

§ Non standard downpipe and nozzle/pop is required.

* Non standard nozzle/pop is required to suit rectangular downpipe.

Figure 1

Cross-sectional area of eaves gutters required for various roof catchment areas (where gradient of gutter is 1:500 and steeper). (Adopted from AS/NZS 3500.3).

