

Categories of Exposure to Driving Rain



- Cream areas depict driving rain exposures of less than 56 l/m² per spell (moderate)
- Green areas depict driving rain exposures of more than 56 l/m² per spell (severe)



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Severe Exposure – more than or equal to 56.5l/m ² per spell					
Pitch Degree	Slate Size mmxmm	Minimum Headlap mm	Slates no/m ²	Batten Gauge mm	Holing Gauge mm
85°	500 x 250	65	18.00	218	293
	450 x 220	65	23.03	193	268
	400 x 250	65	23.40	168	243
	400 x 200	65	29.10	168	243
	350 x 200	65	34.20	143	218
45° - 75°	600 x 300	70	12.40	265	345
	500 x 300	70	15.20	215	295
	500 x 250	70	18.20	215	295
	450 x 220	70	23.90	190	270
	400 x 250	70	23.80	165	245
40°	600 x 300	80	12.60	260	350
	500 x 300	80	15.60	210	300
	500 x 250	80	18.70	210	300
	450 x 220	80	24.02	185	275
	400 x 250	80	24.50	160	250
35°	600 x 300	90	12.90	255	355
	500 x 300	90	16.00	205	305
	500 x 250	90	19.10	205	305
	450 x 220	90	24.69	180	280
	400 x 250	90	25.30	155	255
30°	600 x 300	100	13.10	250	360
	500 x 300	100	16.40	200	310
	500 x 250	100	19.60	200	310
	450 x 220	100	25.40	175	285
	400 x 250	100	26.10	150	260
27.5°	600 x 300	110	16.80	195	315
	500 x 300	110	20.10	195	315
	500 x 250	120	17.30	190	320
	500 x 300	130	17.70	185	325
	500 x 300	130	17.70	185	325

Moderate Exposure – less than 56.5 l/m ² per spell					
Pitch Degree	Slate Size mmxmm	Minimum Headlap mm	Slates no/m ²	Batten Gauge mm	Holing Gauge mm
85°	500 x 250	50	17.40	225	285
	450 x 220	50	22.20	200	260
	400 x 250	50	22.40	175	235
	400 x 200	50	27.90	175	235
	350 x 200	50	32.50	150	210
45° - 75°	600 x 300	55	12.00	273	338
	500 x 300	55	14.70	223	288
	500 x 250	55	17.60	223	288
	450 x 220	55	22.45	198	263
	400 x 250	55	22.70	173	238
40°	600 x 300	60	12.14	270	340
	500 x 300	60	14.90	220	290
	500 x 250	60	17.83	220	290
	450 x 220	60	23.31	195	265
	400 x 250	60	23.07	170	240
35°	600 x 300	70	12.40	265	345
	500 x 300	70	15.20	215	295
	500 x 250	70	18.20	215	295
	450 x 220	70	23.39	190	270
	400 x 250	70	23.80	165	245
30°	600 x 300	80	12.60	260	350
	500 x 300	80	15.60	210	300
	500 x 250	80	18.70	210	300
	450 x 220	80	24.02	185	275
	400 x 250	80	24.50	160	250
27.5°	600 x 300	85	12.70	258	353
	500 x 300	85	15.80	208	303
	500 x 250	85	18.90	208	303
	450 x 220	85	24.02	185	275
	400 x 250	85	24.50	160	250
25°	600 x 300	95	13.00	253	358
	500 x 300	95	16.20	203	308
	500 x 250	95	19.40	203	308
	450 x 220	95	24.69	180	280
	400 x 250	95	25.30	155	255
22.5°	600 x 300	105	16.60	198	313
	500 x 300	105	20.10	195	315
	500 x 250	115	17.00	193	318
	500 x 300	115	20.10	195	315
	500 x 300	115	20.10	195	315

All headlaps have been rounded up to the nearest 5mm increment and in general, the above recommendations apply to rafter lengths of no more than 9m in driving rain exposures of less than 56l/m² and no more than 6m in driving rain exposures greater than 56l/m². Specifiers should take account of any abnormal conditions that might apply and may need to specify greater values than the recommended minimums. If it is necessary to use pitches lower than the lowest recommended minimums, special precautions should be taken. Slate weights can be provided upon request.