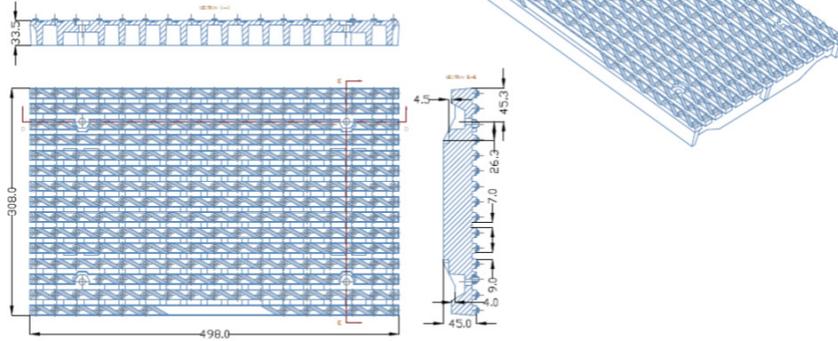


HEAVY DUTY 300 SERIES									
SECTION ID	SECTION MEASUREMENT				SECTION POSITION		SECTION HYDRAULICS ³		
River (R) - Variable Built-in-Fall									
Sections	Weight Excl. Grate (Kg's)	Length (Metres)	Start Invert (mm)	End Invert (mm)	Previous Upstream Section	Next Downstream Section	Built-in-Fall (%)	Max Design Velocity (M/s)	Max Design Flow Rate (L/s) ¹
HD300 R1-0.5	4.8	0.5	203	210	-	R2 or T2 ⁴	1.50%	-	-
HD300 R1-1.0	10.8	1.0	195	210	-	R2 or T2 ⁴	1.50%	-	-
HD300 R1-1.5	15.6	1.5	188	210	-	R2 or T2 ⁴	1.50%	-	-
HD300 R1-2.0	20.4	2.0	180	210	-	R2 or T2 ⁴	1.50%	-	-
HD300 R1-2.5	26.4	2.5	173	210	-	R2 or T2 ⁴	1.50%	-	-
HD300 R1-3.0	31.2	3.0	165	210	-	R2 or T2 ⁴	1.50%	-	50
R1 Sections (0.5m multiples) are used to vary overall length ⁴									
HD300 R2-3.0	31.8	3.0	210	242	R1	R3	1.00%	1.5	55
HD300 R3-3.0	32.4	3.0	242	267	R2	R4	0.75%	1.4	60
HD300 R4-3.0	33.0	3.0	267	287	R3	R5 or T5 ⁸	0.63%	1.3	70
HD300 R5-3.0	33.6	3.0	287	307	R4 or T2 ⁴	R6	0.60%	1.3	75
HD300 R6-3.0	38.4	3.0	307	327	R5	R7	0.58%	1.3	80
HD300 R7-3.0	39.6	3.0	327	345	R6	R8	0.56%	1.3	90
(Z7) Zero Fall Section Length Extender can be inserted here ²									
HD300 R8-3.0	40.2	3.0	345	364	R7	R9 or T9 ¹³	0.55%	1.3	95
HD300 R9-3.0	40.8	3.0	364	382	R8 or T5 ⁸	R10	0.54%	1.3	105
HD300 R10-3.0	41.4	3.0	382	400	R9	R11	0.53%	1.3	110
HD300 R11-3.0	42.0	3.0	400	418	R10	R12	0.52%	1.3	115
HD300 R12-3.0	42.6	3.0	418	435	R11	R13	0.51%	1.3	120
HD300 R13-3.0	43.2	3.0	435	452	R12	R14	0.50%	1.3	125
HD300 R14-3.0	46.8	3.0	452	469	R13 or T9 ¹³	R15	0.50%	1.3	135
HD300 R15-3.0	48.0	3.0	469	486	R14	R16	0.50%	1.3	140
HD300 R16-3.0	49.2	3.0	486	503	R15	-	0.50%	1.4	145
Torrent (T) Self Cleansing - Super Steep Built-in-Fall,									
Sections	Weight Excl. Grate (Kg's)	Length (Metres)	Start Invert (mm)	End Invert (mm)	Previous Upstream Section	Next Downstream Section	Built-in-Fall (%)	Max Design Velocity (M/s)	Max Design Flow Rate (L/s) ¹
HD300 T2-3.0	32.4	3.0	210	287	R1	T5 ⁸ or R5	2.51%	2.4	85
HD300 T3-3.0	38.0	3.0	287	364	T2 ⁴ or R4	T9 ¹³ or R9	2.49%	2.6	145
HD300 T4-3.0	42.0	3.0	364	452	T5 ⁸ or R8	R14	2.87%	3.0	230
Zero Fall/Neutral (Z7) - Section Length Extender, 307mm Invert									
Sections	Weight Excl. Grate (Kg's)	Length (Metres)	Start Invert (mm)	End Invert (mm)	Previous Upstream Section	Next Downstream Section	Built-in-Fall (%)	Max Design Velocity (M/s)	Max Design Flow Rate (L/s) ¹
HD300 Z7-0.5	7.2	0.5	345	345	R7	R8	0.00%	-	-
HD300 Z7-2.0	26.4	2.0	345	345	R7	R8	0.00%	-	-
HD300 Z7-3.0	40.0	3.0	345	345	R7	R8	0.00%	-	-

POWERED COATED DUCTILE IRON GRATING (300 SGG)

Shoe-guard Grating – Heel Guard Compliant

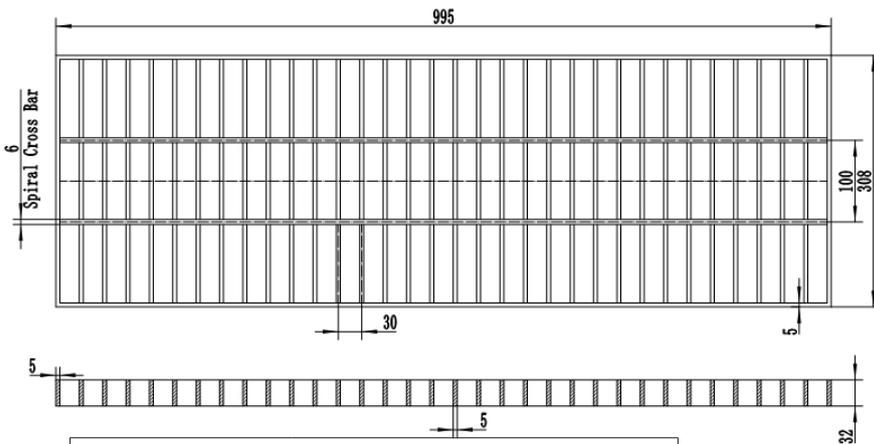
Length 500mm, 8mm Slot



RATED E400 (AS3996) – TESTED BY OPUS LABORATORIES N.Z.	
MAX FLOW RATE	One side 11.5 L/m/s
	Two sides 23.0 L/m/s

GALVANISED MESH GRATING (300 GMG)

Hi-Flo Grating - High Flow Rate

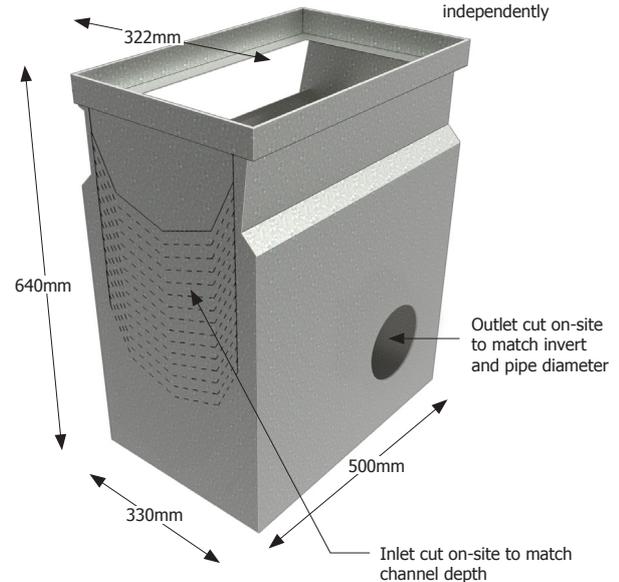


RATED D210 (AS3996) – TESTED BY OPUS LABORATORIES

MAX FLOW RATE	One side 22.5 L/s/m
	Two sides 39.0 L/m/s

INLINE SUMP (300 ILS)

The Inline sump can also be used independently



INSTALLATION GUIDE

