

Section A-A

Plan

Flow Control Chamber

Flow Control Device Details			
MH Ref No.	Maximum flow (l/s)	Maximum head (m)	Flow control device type and details
S8	1.4	0.425	Hydrobrake Optimum SHE-0064-1400-0425-1400 (64φ orifice)


Control Point	Head (m)	Flow (l/s)
Primary Design	0.425	1.40
Flush-Flo	0.125	1.39
Kick-Flo	0.292	1.18
Mean Flow	-	1.19

Dimensions (mm)	
A	70
B	260
C	300*
D	150*
E	610
F	100*
G	390

* minimum

General Notes

1. All concrete used in drainage works should comply with BRE Special Digest SD1 for the following aggressive conditions in the ground:
 - Design sulphate class DS-1
 - Active chemical environment class AC-22
 - Design concrete class DC-1 (TBC)
 - No additional protective measures (APRs).
- The strength criteria for the specified standard mixes (ST4 etc.) should also be observed. Concrete mixes should meet the most onerous design criteria for strength and resistance to chemical attack.
2. Pipes and channels to be either:
 - Concrete to BS EN 1916 & BS 5911
 - Extra Strength Vitrified Clay to BS EN 295
 - Unplasticised PVC to BS EN 1452
3. All flexible pipes in trafficked areas with less than 900mm cover to have concrete surround.
4. All flexible pipes in gardens and planted areas with less than 600mm cover to have concrete surround.
5. Backfill material to pipe trenches beneath trafficked areas to be selected and compacted in accordance with the Highway Authorities' Utilities Committee Specification for the Reinstatement of Openings in Highways-June 1992.
 - Accessed material (HAUC Specification Appendix A)
 - Class A - Graded granular
 - Class B - Granular
 - Class B - Cohesive/granular
 - Compaction to be in accordance with HAUC Specification Appendix AB).
6. Beneath non-trafficked areas backfill shall be Type B
7. Manhole covers and frames are to be in accordance with BS EN24:
 - Class D400 for carriageways
 - Class B125 for footways, pedestrian areas and parks
 - Class A15 for areas only subject to pedestrian.
8. The minimum size of any manhole serving a sewer (i.e any drain serving more than one property) should be 1200mm x 675mm rectangular or 1200mm diameter.
9. Where drainage passes within 300mm of the underside of the floor slab, concrete protection is required. Greater than 300mm, granular bedding and surround 100mm thick is to be used.

A	First Issue.	JT	24.04.25
Rev	Description	By	Date
<p> KRYSTAL ENGINEERING LTD 1 STATION ROAD SOUTH, MERSTHAM, SURREY RH1 3EF 01737 333139 </p> 			
Project			
<p> LAND AT: GREENSLEEVES, TILTWOOD, HOPHURST LANE, CRAWLEY DOWN, RH10 4LL. </p>			
Drawing Title			
<p> FLOW CONTROL CHAMBER DETAILS </p>			
Drawing No.		Revision	
7684-253		A	
Scale	@ A1	Date	SEPT 2025
Drawing Status			
PRELIMINARY			
Drawn By		Checked By	
JT		KH	
Client			
TILTWOOD HOMES			

To be read in conjunction with flow control manufacturer's details. Representation of the flow control device is schematic only.