

**REPORT ON:** Planning Application -  
New Library Boyle

**CLIENT:** Roscommon CoCo

**LOCATION:** Boyle,  
Co. Roscommon.



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<b>Report No.21023-KCE-RP-C-00-0001</b>
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## Planning Proposal New Library Boyle

### PLANNING APPLICATION

**Document Title: Planning Proposal New Library Boyle**

**Document Ref(s): 21023-KCE-RP-C-00-0001**

Date	Edition/Rev	Status	Originator	Checked	Approved
24th November 2021	P01	Planning	N Murphy	J. Killian	J. Killian
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# 1 Introduction to Drainage

The development will consist of the construction of a new Library building behind the existing Royal Hotel in Boyle, Co. Roscommon along with all ancillary site works.

## 1.1 Site Location

The site is located to the rear of the existing Royal Hotel in Boyle, Co. Roscommon as shown on the site location map below. The site is adjacent to the River Boyle to the north.



Figure 1: Site Location

## 2 Water Supply

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### 2.1 Existing Services

There is an existing 100mm uPVC Watermain in the Carrick Road to the south of the site.

### 2.2 Proposed Services

It is proposed to make a new connection to the existing water main on the Carrick Road near the existing petrol station. A new 125(OD) HDPE pipe will be provided to service the proposed development.

It is proposed to install Electromagnetic Flowmeter or similar approved by Irish Water on the new watermain. The proposed watermain within the site is fully valved, with no dead ends all loops having a minimum of one hydrant within the loop. All hydrants have been spaced in accordance with Irish Water Guidelines.

All sluice valves, air valves and hydrants to be as per site layout drawing. Refer to the Irish Water details for sluice valves, hydrants, air valves and watermain details etc

Refer to drawing 21023-KCE-00-DR-C-00-0001 for proposed watermain layout.

### 2.3 Water Consumption

Water consumption for the development is calculation below as per Irish Water Guidelines:

#### New Library

Office Staff

10 (PE) x 100 l/day = 1,000 litres

Library Visitors

100 (PE) x 10 l/day = 1,000 litres

Total = 2,000 litres

Average Demand =  $2,000 / (12 \times 60 \times 60) = 0.05 \text{ l/s}$

Peak Demand =  $0.05 \text{ l/s} \times 1.75 = 0.08 \text{ l/s}$

## 3 Foul Water

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### 3.1 Existing Services

There is an existing foul sewer drainage to the rear of the Royal Hotel building which is currently being redeveloped. This runs to the main Irish Water sewer on the Carrick Road.

### 3.2 Proposed Services

It is proposed to install local foul sewer drainage around the new Library Building and discharge via gravity to the existing foul sewer manhole to the rear of the Royal Hotel as per drawing 21023-KCE-00-DR-C-00-0001 in line with Irish Water Guidelines and Code of Practice.

Foul sewers have been designed in accordance with the Building Regulations TGD Document H and in accordance with the principles and methods set out in BS8301: 1985 and the DoELG Recommendations for Site Development Works. For IW to take charge, the developer provided infrastructure is to comply with IW-CDS-5030-1,2,3.

The following criteria have been applied;

	Discharge units –	As per Irish Water Guidelines
•	Pipe Ks	0.6mm
•	Minimum Velocity	0.75m/s
•	Maximum Velocity	3.0m/s

### 3.3 Estimate of foul/wastewater flows

#### New Library

Office Staff

10 (PE) x 100 l/day = 1,000 litres

Library Visitors

100 (PE) x 10 l/day = 1,000 litres

Total = 2,000 litres

Average Demand =  $2,000 / (12 \times 60 \times 60) = 0.05 \text{ l/s}$

Peak Demand =  $0.05 \text{ l/s} \times 1.75 = 0.08 \text{ l/s}$

## 4 Surface Water

### 4.1 Existing Services

There is no existing surface sewer network servicing the development.

### 4.2 Proposed Services

The surface water drainage is designed in accordance with GSDSDS with 20% climate change factored. It is proposed that all surface water run-off from the new development will be collected by gravity drainage and discharged to a Wavin Aquacell attenuation tank. The water is then to be discharged to the existing Boyle River with restricted flow of 2.0 l/s provided by a hydrobrake in the final manhole. There will also be a TIDEFLEX TF-1 valve installed on the outfall pipe to prevent water from coming back into the network, refer to appendix C for details of this valve.

An allowable surface water outflow of 6.5 l/s/ha was calculated for the site using the modified rational method and the following parameters were applied;

•	Roads, pavements, driveways	100% impermeable
•	Roofs	100% impermeable
•	Green Areas	10% impermeable
•	Return period	1:100 years (20% climate change allowed for)
•	Pipe Roughness (Ks)	0.6 mm

An allowable outflow of 5.0 litres / sec / hectare is applied to the developed area 0.053 H. The flow will be restricted by a hydrobrake in the final manhole.

Using this outflow, the attenuation for the 1 in 100-year event was calculated. Please see attached attenuation calculations in Appendix A including Qbar calculation & stormwater tank sizing. It is proposed to provide 32 m3 capacity wavin aquacell attenuation tank. The site dimensions of the attenuation area will be 10 x 4 x 0.8 m dp. We note that the attenuation has been sized to cater for 20% climate change.

### 4.3 Attenuation Details

The outflow from the site area is restricted to 5.0 l/s/ha. Using this outflow, the attenuation for different return periods were calculated,

Hardstanding and Roof area = 530 m<sup>2</sup>

Catchment Area:	Impermeable Area	: 0.053 Ha
	Allowable Outflow	: 5.0 l/s Ha
	Calculated Allowable discharge	: 0.27 l/s
	Maximum storage required	: 27m <sup>3</sup>
	Return Period	: 100 years
	Storm duration	: 720min
	Allow for 20% Climate Change	: 32m <sup>3</sup>

SuDS design summary:

- Surface water runoff from roofs and hardstanding areas shall be routed to wavin aquacell attenuation / infiltration systems.

## **Appendix A:     Attenuation / SUDS Calculations**



Met Eireann  
Return Period Rainfall Depths for sliding Durations  
Irish Grid: Easting: 180214, Northing: 302565,

DURATION	Interval		Years													
	6months,	1year,	2,	3,	4,	5,	10,	20,	30,	50,	75,	100,	150,	200,	250,	500,
5 mins	2.6,	3.6,	4.2,	5.0,	5.5,	5.9,	7.3,	8.8,	9.8,	11.2,	12.4,	13.4,	14.8,	15.9,	16.9,	N/A ,
10 mins	3.7,	5.1,	5.8,	6.9,	7.7,	8.3,	10.2,	12.3,	13.6,	15.6,	17.3,	18.6,	20.6,	22.2,	23.5,	N/A ,
15 mins	4.3,	6.0,	6.9,	8.2,	9.0,	9.7,	11.9,	14.4,	16.1,	18.3,	20.3,	21.9,	24.3,	26.1,	27.6,	N/A ,
30 mins	5.7,	7.8,	8.9,	10.5,	11.6,	12.4,	15.1,	18.1,	20.1,	22.8,	25.2,	27.1,	29.9,	32.1,	33.9,	N/A ,
1 hours	7.5,	10.2,	11.5,	13.5,	14.9,	15.9,	19.2,	22.8,	25.2,	28.4,	31.3,	33.5,	36.8,	39.4,	41.5,	N/A ,
2 hours	10.0,	13.2,	14.9,	17.4,	19.1,	20.3,	24.3,	28.7,	31.5,	35.4,	38.8,	41.4,	45.3,	48.3,	50.8,	N/A ,
3 hours	11.7,	15.5,	17.4,	20.2,	22.1,	23.5,	27.9,	32.8,	36.0,	40.3,	44.0,	46.9,	51.2,	54.5,	57.2,	N/A ,
4 hours	13.2,	17.3,	19.4,	22.4,	24.4,	26.0,	30.8,	36.1,	39.5,	44.1,	48.1,	51.2,	55.8,	59.3,	62.2,	N/A ,
6 hours	15.5,	20.2,	22.6,	26.0,	28.3,	30.0,	35.4,	41.3,	45.0,	50.1,	54.6,	57.9,	63.0,	66.8,	70.0,	N/A ,
9 hours	18.2,	23.6,	26.3,	30.2,	32.7,	34.6,	40.7,	47.2,	51.4,	57.0,	61.9,	65.6,	71.1,	75.4,	78.8,	N/A ,
12 hours	20.5,	26.3,	29.3,	33.5,	36.2,	38.3,	44.9,	51.9,	56.4,	62.4,	67.7,	71.6,	77.5,	82.0,	85.7,	N/A ,
18 hours	24.1,	30.7,	34.1,	38.8,	41.9,	44.3,	51.6,	59.4,	64.3,	71.0,	76.7,	81.1,	87.6,	92.5,	96.5,	N/A ,
24 hours	27.1,	34.3,	38.0,	43.1,	46.5,	49.0,	56.9,	65.3,	70.6,	77.8,	83.9,	88.5,	95.5,	100.7,	104.9,	119.3,
2 days	35.8,	44.0,	48.0,	53.6,	57.2,	59.8,	68.1,	76.8,	82.1,	89.3,	95.4,	99.9,	106.7,	111.7,	115.8,	129.4,
3 days	43.2,	52.1,	56.4,	62.4,	66.2,	69.0,	77.7,	86.6,	92.1,	99.4,	105.5,	110.1,	116.8,	121.8,	125.9,	139.3,
4 days	50.0,	59.6,	64.1,	70.4,	74.4,	77.3,	86.3,	95.4,	101.1,	108.5,	114.7,	119.3,	126.1,	131.1,	135.1,	148.5,
6 days	62.5,	73.0,	78.0,	84.8,	89.1,	92.2,	101.7,	111.3,	117.1,	124.8,	131.2,	135.9,	142.7,	147.8,	151.9,	165.2,
8 days	74.1,	85.4,	90.7,	97.9,	102.4,	105.7,	115.6,	125.6,	131.6,	139.5,	146.0,	150.8,	157.7,	162.8,	166.9,	180.3,
10 days	85.0,	97.1,	102.6,	110.2,	114.9,	118.3,	128.6,	138.9,	145.0,	153.1,	159.7,	164.5,	171.6,	176.7,	180.8,	194.2,
12 days	95.6,	108.2,	114.1,	121.9,	126.8,	130.3,	140.9,	151.4,	157.7,	165.8,	172.5,	177.4,	184.6,	189.8,	193.9,	207.3,
16 days	116.0,	129.6,	135.8,	144.1,	149.2,	153.0,	164.0,	174.9,	181.4,	189.7,	196.6,	201.6,	208.8,	214.0,	218.2,	231.6,
20 days	135.6,	150.0,	156.5,	165.2,	170.5,	174.4,	185.8,	196.9,	203.5,	212.0,	219.0,	224.0,	231.3,	236.5,	240.7,	254.1,
25 days	159.5,	174.6,	181.4,	190.4,	195.9,	199.9,	211.6,	223.0,	229.7,	238.3,	245.3,	250.4,	257.7,	263.0,	267.1,	280.5,

NOTES:

N/A Data not available

These values are derived from a Depth Duration Frequency (DDF) Model

For details refer to:

'Fitzgerald D. L. (2007), Estimates of Point Rainfall Frequencies, Technical Note No. 61, Met Eireann, Dublin',

Available for download at [www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies\\_TN61.pdf](http://www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies_TN61.pdf)

**Storm Sewer Design by the Modified Rational Method:  $Q_{bar}$**

Date 24th November 2021	Proposed Library Boyle
Page 1 of 1	Designed By. N. Murphy B.E. MIEI



**Permissible out flow for a catchment  $\leq 24$ Ha in area**

$Q_{BAR}=0.00108*(area)^{0.89}*(saar)^{1.17}*(soil)^{2.17}$

Parameter	Description	Units	Value	
Area=	Total Site Area	km <sup>2</sup>	0.00053	
Saar=	Standard Annual Rainfall	mm	1085	
Soil	Soil Index with value between 0.15-0.50	-	0.3	
Qbar=	Mean annual peak flow	m <sup>3</sup> /s	0.00034	m <sup>3</sup> /Sec

Calculated Qbar 0.3426 Litre/sec

Qbar = Allowable outflow form total site	0.343	litre/sec
Alowable discharge rate	6.465	litre/sec/Hectare
Minimum Discharge Rate	5.00	litre/sec/Hectare

Revised outflow from site 0.265 litre/sec

**Storm water storage requirements**

Date: 24th November 2021

Proposed Library boyle

21023

Designed By. NM

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**EXTREME RAINFALL RETURN PERIODS****LOCATION: Boyle Co. Roscommon**

AVERAGE ANNUAL RAINFALL 1085 mm

**RAINFALL IN mm FOR A RANGE OF DURATION AND RETURN PERIOD**

Duration	Return Period in Years								
	0.5	1	2	5	10	20	30	50	100
5	2.6	3.6	4.2	5.9	7.3	8.8	9.8	11.2	13.4
10	3.7	5.1	5.8	8.3	10.2	12.3	13.6	15.6	18.6
15	4.3	6.0	6.9	9.7	11.9	14.4	16.1	18.3	21.9
30	5.7	7.8	8.9	12.4	15.1	18.1	20.1	22.8	27.1
60	7.5	10.2	11.5	15.9	19.2	22.8	25.2	28.4	33.5
120	10.0	13.2	14.9	20.3	24.3	28.7	31.5	35.4	41.4
240	13.2	17.3	19.4	26.0	30.8	36.1	39.5	44.1	51.2
360	15.5	20.2	22.6	30.0	35.4	41.3	45.0	50.1	57.9
720	20.5	26.3	29.3	38.3	44.9	51.9	56.4	62.4	71.6
1,440	27.1	34.3	38.0	49.0	56.9	65.3	70.6	77.8	88.5

Proposed Development Site Area =	0.05	ha
Allowable Outflow per hectare =	5.00	Litre/sec/ha

**Storm Water Storage Requirements**

Date: 24th November 2021

Proposed Library boyle

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PAGE 2 OF 2

Designed By. NM

**SURFACE WATER STORAGE : FOR 100 YEAR STORM**

Proposed Development Site Area =	0.053	ha

Proposed Impermeable Area				
Hard Surfaces & Roofs	0.05	100%		0.053
Total Impermeable Area				<b>0.053</b>

Allowable Outflow =	<b>5.00</b>	<b>Litre/sec/ha</b>
	<b>0.27</b>	<b>l/s</b>

**Rainfall Intensity as Recorded in Athlone 1 in 1000**1 Hectare = 10,000m<sup>2</sup>

Duration	Rainfall	Intensity	Rainfall	Proposed	Proposed	Allowable	Storage
(min)	(mm)	(mm/hr)	(m <sup>3</sup> /ha)	Imperm. Area (ha)	Run-off (m <sup>3</sup> )	Outflow (m <sup>3</sup> )	Required (m <sup>3</sup> )
5	13.4	160.80	134	0.053	7	0	7
10	18.6	111.60	186	0.053	10	0	10
15	21.9	87.60	219	0.053	12	0	11
30	27.1	54.20	271	0.053	14	0	14
60	33.5	33.50	335	0.053	18	1	17
120	41.4	20.70	414	0.053	22	2	20
240	51.2	12.80	512	0.053	27	4	23
360	57.9	9.65	579	0.053	31	6	25
720	71.6	5.97	716	0.053	38	11	27
1,440	88.5	3.69	885	0.053	47	23	24

<b>Maximum Storage Required =</b>	<b>27</b>	<b>m<sup>3</sup></b>
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Add 20% for Climate Change	<b>32</b>	<b>m<sup>3</sup></b>
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## **Appendix B: Wavin Aquacell and Hydrobrake Details**

# AquaCell Plus-R

## Product description

AquaCell Plus-R has been designed primarily for use in applications where inspectability is required, and is suitable for use in all applications from landscaped areas to heavily trafficked areas.



## Technical specification

<b>Product code / SAP code</b>	6LB250 / 4064832	<b>Void ratio</b>	95%
<b>Colour</b>	Black	<b>Material</b>	Recycled PP
<b>Dimensions</b>	1m x 0.5m x 0.4m	<b>Vertical loading</b>	70.2 tonnes/m <sup>2</sup> (702 kN/m <sup>2</sup> )
<b>Weight</b>	12.7kg	<b>Lateral loading</b>	15.1 tonnes/m <sup>2</sup> (151 kN/m <sup>2</sup> )
<b>Storage volume</b>	190 litres		

## Maximum installation depths

Typical soil type	Maximum depth of installation – to base of units (m) <sup>1</sup>				
	Soil weight kN/m <sup>3</sup>	Angle of internal friction $\phi$ (degrees) <sup>2, 3</sup>	Landscaped areas	Vehicle mass <9 tonnes <sup>4, 5</sup>	Vehicle mass <44 tonnes
Over consolidated stiff clay	20	24	4.67	4.42	4.17
Silty sandy clay	19	26	5.03	4.78	4.53
Loose sand and gravel	18	30	5.86	5.61	5.36
Medium dense sand and gravel	19	34	6.87	6.62	6.37
Dense sand and gravel	20	38	7.82	7.57	7.30

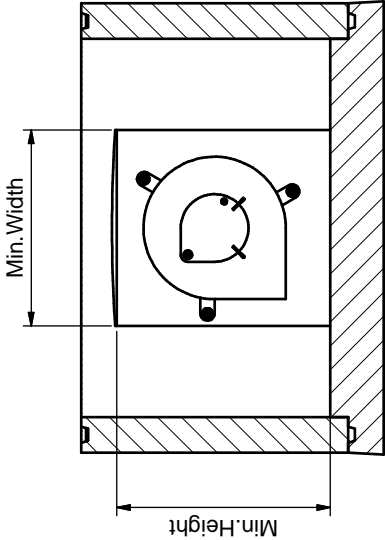
## Minimum cover depths

	Landscaped areas	Car parks with vehicle mass <3 tonnes <sup>5</sup>	Car parks with vehicle mass <9 tonnes	Car parks with vehicle mass <12 tonnes	Low speed roads with vehicle mass <60 tonnes
<b>Minimum cover depth (m)</b>	0.30	0.50	0.69	0.81	1.30

- Without groundwater present below base of units – AquaCell Plus-R may be used where groundwater is present, contact Wavin for technical advice.
- Loosening of dense sand or softening of clay by water can occur during installation. The designer should allow for any such likely effects when choosing an appropriate value of  $\phi$ .
- The design is very sensitive to small changes in the assumed value of  $\phi$ , therefore, it should be confirmed by a chartered geotechnical engineer. In clay soils, it may be possible to utilise cohesion in some cases.
- Applicable for car parks or other areas trafficked only by cars or occasional refuse collection trucks or similar vehicles (typically one per week).
- This category should be used when considering landscaped areas that may be trafficked by ride on mowers.

Assumptions made:

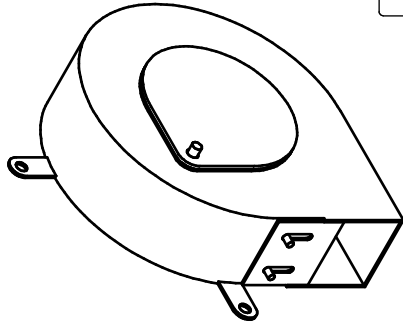
- Ground surface is horizontal
- Shear planes or other weaknesses are not present within the structure of the soil



**Section B-B**  
(view on mounting block)

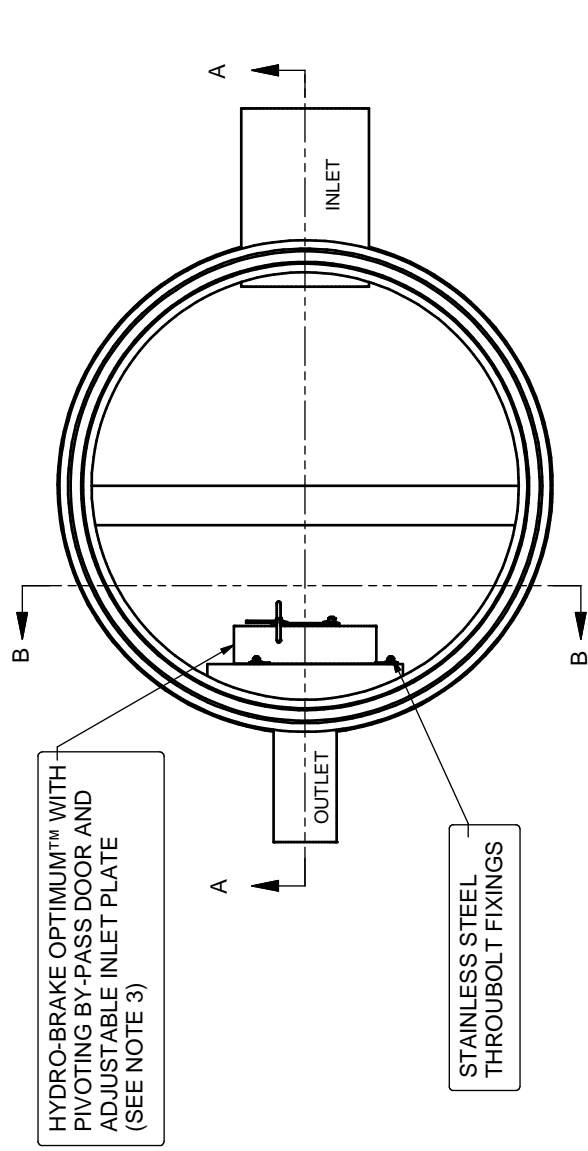
Technical Specification Criteria			
BBA Approved	Head (m)	Flow (L/s)	
Design Point			
Flush Flow			
Kick Flow			
Optimisation			

Physical Specification	
Min. Block Width	
Min Block Height	
Min. Sump Depth	
Min Outlet Diameter	

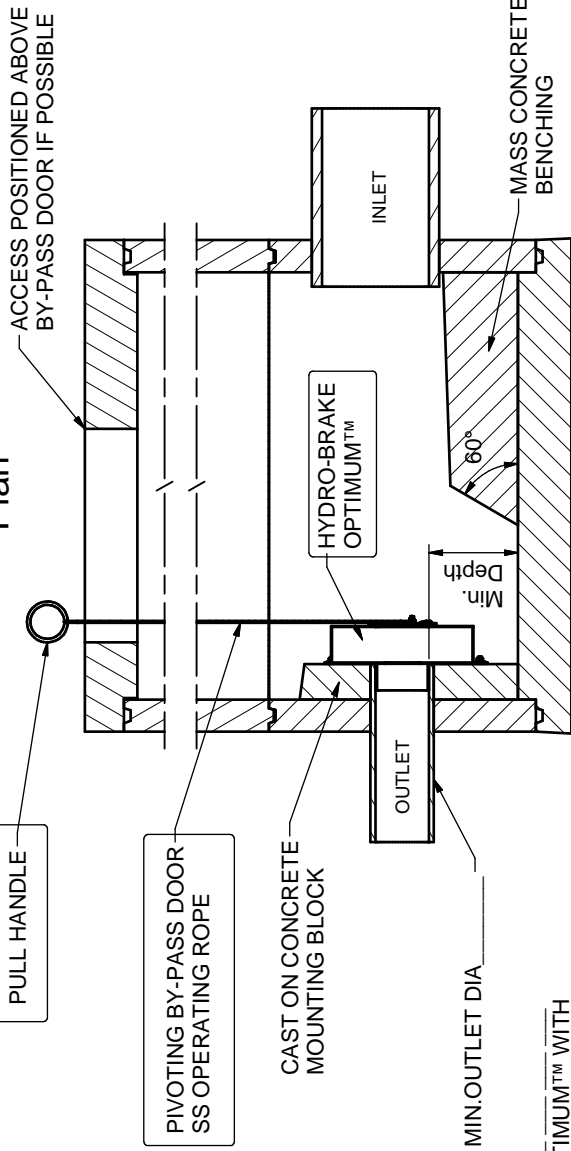


BBA APPROVED S  
HYDRO-BRAKE OPTIMUM™ WITH  
ADJUSTABLE INLET PLATE

NB: ☐ = HRD TECHNOLOGIES  
SCOPE OF SUPPLY



**Plan**



**Section A - A**

ANY WARRANTY GIVEN BY HRD WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HRD CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THERE OF), DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HRD HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION AND THE COVER OF THIS DRAWING WITHOUT NOTICE. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THE DRAWING IS USED FOR THE INTENDED PURPOSE AND NOT FOR OTHER PURPOSES. HRD WILL NOT BE RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY THE USER. HRD WILL NOT BE RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY THE USER. HRD WILL NOT BE RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY THE USER.

**DO NOT SCALE DRAWING**  
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES. TOLERANCING INFORMATION IS FOUND IN PRODUCTION SPECIFICATION HRD-FM09/15

Approximate Weight: N/A  
Finish:   
Treatment:   
Sheet Size: A3  
Sheet: 1 OF 1

© 2014 HRD TECHNOLOGIES LTD



**PROJECTION**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT GENERAL ARRANGEMENT & DETAIL DRAWINGS.
- ALL COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE PRODUCTION SPECIFICATION HRD-FM09/15.
- HYDRO-BRAKE OPTIMUM™ IS ALSO AVAILABLE WITH ALTERNATIVE MOUNTING ARRANGEMENTS (E.G. CURVED BACKPLATE, PUSH-FIT)

A	WCJ	01/08/2014	FIRST ISSUE
REV	BY	DATE	DESCRIPTION
REVISION HISTORY			
Date	01/08/2014	Scale	
Drawn By	W Jones	Checked By	Approved By
Title	HYDRO-BRAKE OPTIMUM™ FOR SURFACE WATER WITH ADJUSTABLE INLET PLATE		

**HYDRO-BRAKE OPTIMUM™ FOR SURFACE WATER WITH ADJUSTABLE INLET PLATE**

**GENERAL ARRANGEMENT**



Unit B 10/11  
Greenogue Square  
Greenogue Business Park  
Rathcoole  
Co Dublin  
Tel: 01 4013964  
Fax: 01 4013978

enquiries@hrdtec.com

Next Assembly:	
PROJECT (Wipe No.)	
Drawing No.	HBO-SA1
Rev	A

## **Appendix C: TIDEFLEX TF-1 VALVE**



### Series TF-1—Tideflex® Check Valve

#### Features & Benefits

- Ideal for manhole installations
- Lightweight, all-elastomer design
- Seals around entrapped solids
- Cost-effective, maintenance-free design

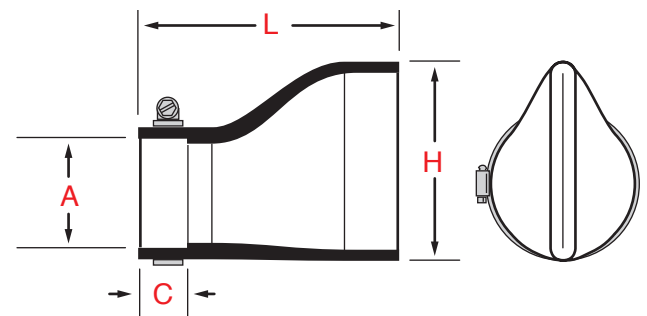
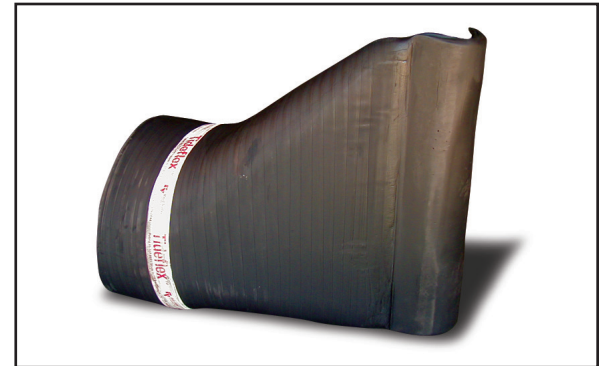
#### Materials of Construction

- Elastomers available in Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM, and Viton®

We are pleased to announce the introduction of the revolutionary TF-1 Check Valve. It functions and operates under the same simple principle of operation as the original TF-2 Tideflex®.

This design is ideal for existing manhole installations where the invert of the pipe is close to the floor of the vault. There are many check valves in interceptors, manholes, and vaults. These vaults are designed so that there would be a maximum gravity head; thus, the invert pipe is as close to the base as possible. The TF-1 allows installations in such applications.

The Tideflex® Technologies Series TF-1 Tideflex® Check Valve is designed for applications in manholes, where the bottom of the manhole is close to the invert of the pipe. The TF-1 configuration allows the valve to be properly installed without manhole modification, ensuring positive backflow prevention and a lifetime of maintenance-free performance.



Pipe O.D. (A)	Length (L)	Bill Height (H)	Cuff Length (C)
4	10	8	1 1/2
5	10	8	1 1/2
6	16	12	2
8	18	16	2
10	23	19	3
12	27	23	4
14	27	23	4
16	35	30	5
18	36	34	6
20	44	37	8
22	44	37	8
24	48	43	8
26	48	43	8
28	48	43	8
30	56	55	9
32	56	55	9
36	67	69	10
38	67	69	10
40	67	69	10
42	61	71	10
44	61	71	10
48	66	78	10
50	66	78	10
54	66	78	10
58	66	78	10
60	73	91	14
68	73	91	14
72	96	115	16

Numbers indicate maximum dimensions in inches.