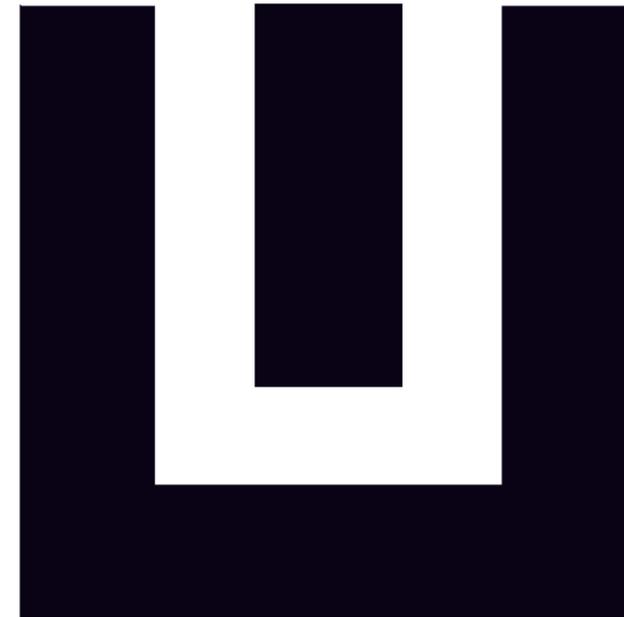


# KILLESHAL

TRUSTED SINCE 1969



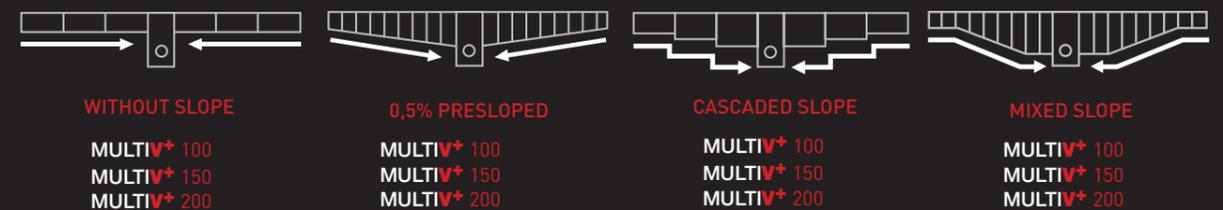
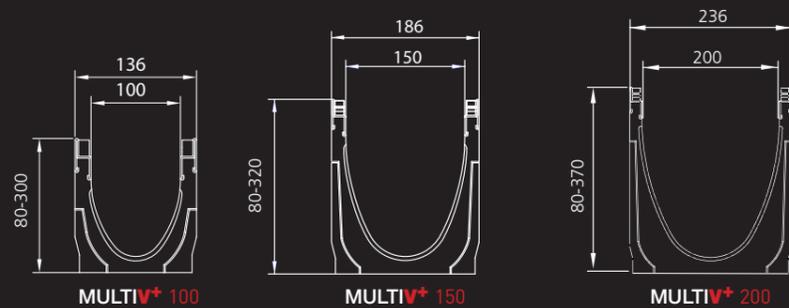
## MULTIV+ SYSTEM

**APPLICATIONS: SYSTEM SUITABLE FOR PEDESTRIAN AND SHOPPING AREAS, AS WELL AS PARKING AREAS FOR ALL TYPES OF VEHICLES.**

**DRAINAGE EVOLUTION**

The evolution of R&D processes and our 20+ years of experience in drainage solutions has enabled us to develop a new line of products better suited to market needs, providing in a single system the advantages of our other lines: the economy of the SELF system, the low heights of the MINI range, the 8-point fastening of the F line and the option of presloped, cascaded or mixed slope provided for by the U and UK systems.

The **MULTIV+** is available in different heights, and up to a load class of D400.



# ADVANTAGES OF THE MULTIV+ SYSTEM

## 1 MULTIV+ OPTIMIZED V-SHAPED SECTION

Especially designed for channel runs with no longitudinal slope

**+ HIGHER SPEED WITH LOWER FLOWS**

**+ BIGGER CAPACITY FOR EXTREME FLOWS**

The V-shaped design of the **MULTIV+®** channels has been developed to drain water faster, improving the self-cleaning effect of the channel. Its optimized cross section, larger than the traditional V-sections currently available on the market, provides bigger hydraulic capacity for extreme flow situations.

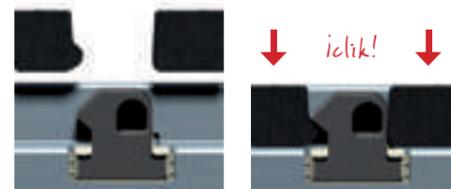


## 2 rapidlock FASTENING SYSTEM

The fast and boltless **ULMA Rapidlock®** fastening system makes possible to connect the grating to the channel body quickly, safely and practically effortlessly.

### ADVANTAGES:

- One-second fastening
- Tool-free installation
- Save on labour costs
- Easy maintenance



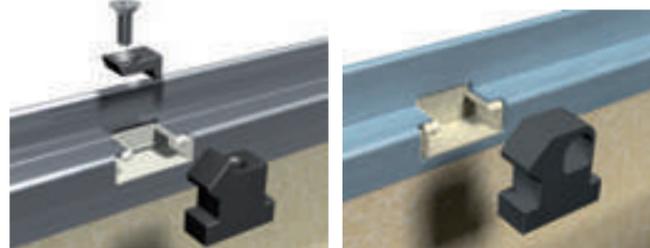
## 3 MECHANICAL STABILITY, WITH 8 FASTENING POINTS

Its 8-point fastening system provides higher stability and stress distribution throughout the grating and the channel.

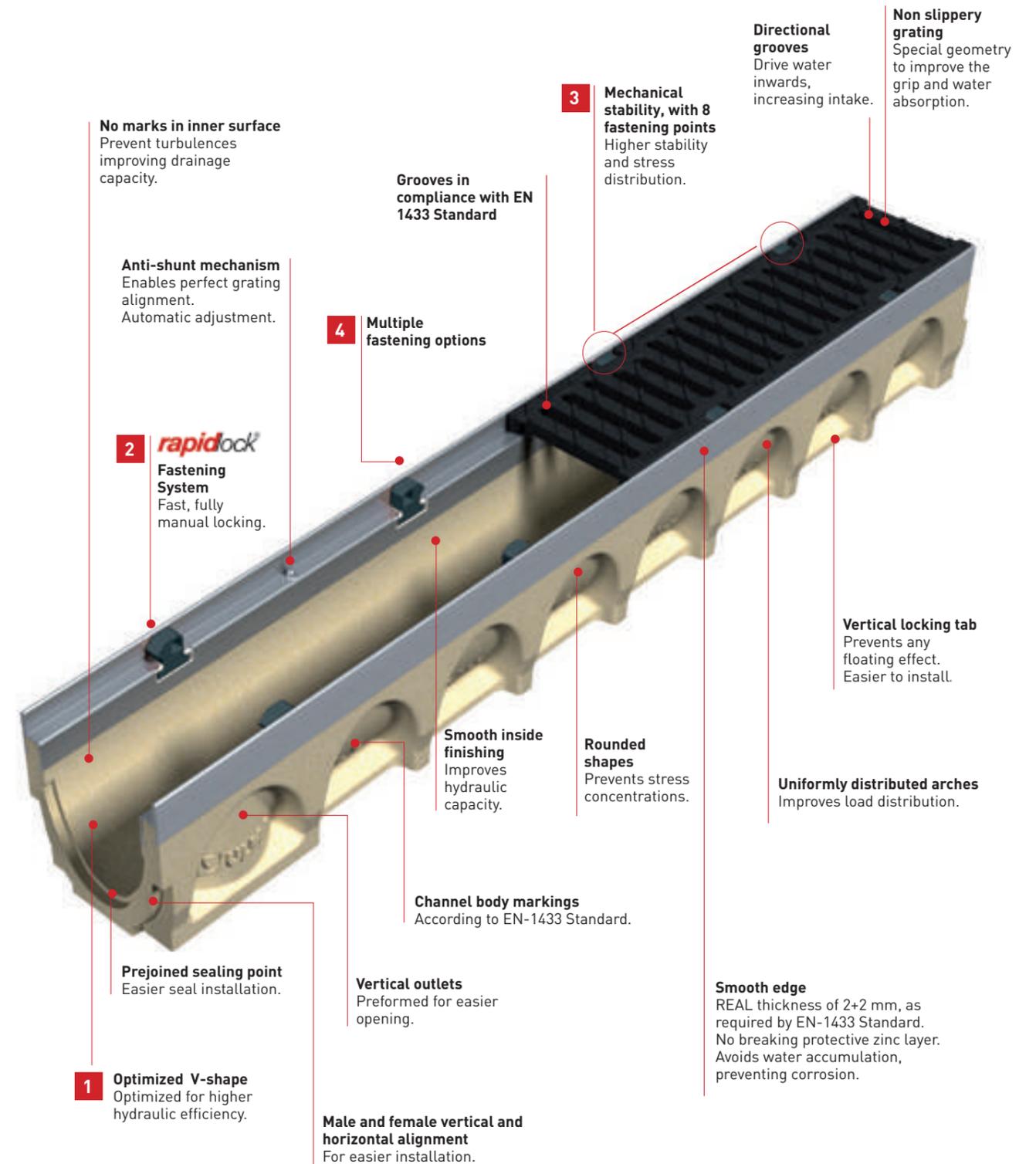
## 4 MULTIPLE FASTENING OPTIONS

Rapidlock® and screw-fastened systems can be replaced and combined:

- Even with already installed channels.
- No need to replace the grating.
- By simply replacing the fastening components.



# SYSTEM FEATURES



# MULTIV+100

LOAD CLASS  
**UP TO D400 \***  
EN-1433 STANDARD

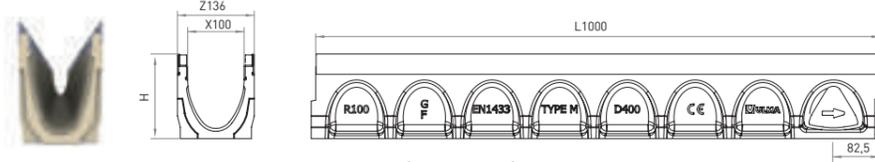


Enquiries UK  
Tel: 0800 0393367  
Email: info@killeshalprecast.co.uk

Enquiries Rep Irl  
Tel: 057 9353018  
Email: sales@killeshal.com

ULMA Linear Drainage Channel, type **MULTIV+® R100G**; External width 136 mm, Internal width 100 mm, with overall heights between 80 and 300 mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimized V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanized steel edges for lateral protection; Either **Rapidlock®** boltless system or screw-fastened. 8 locking points per linear metre.

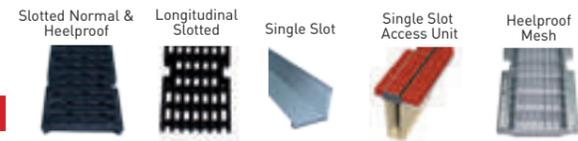
OPTIMIZED V-SHAPE



Available with ductile iron and stainless steel edge rails [Code: R100GX].

## CHANNELS

Channel Code		L (mm)	H (mm)		Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm²)	Units (x pallet)
Rapidlock	Bolted system		Initial	Final	Z	X	Vert.	Hor.		
R100GH8**	R100FH8**	1000	80	80	136	100	110	-	40	90
R100G00R	R100F00R	1000	100	100	136	100	110	-	56	90
R100G01	R100F01	1000	100	105	136	100	110	-	60,9	90
R100G02	R100F02	1000	105	110	136	100	110	-	64,3	90
R100G03	R100F03	1000	110	115	136	100	110	-	67,7	90
R100G04	R100F04	1000	115	120	136	100	110	-	71,1	90
R100G05	R100F05	1000	120	125	136	100	110	-	74,5	90
R100G06	R100F06	1000	125	130	136	100	110	-	77,9	75
R100G07	R100F07	1000	130	135	136	100	110	-	81,3	75
R100G08	R100F08	1000	135	140	136	100	110	-	84,7	75
R100G09	R100F09	1000	140	145	136	100	110	-	88,1	75
R100G10	R100F10	1000	145	150	136	100	110	-	91,5	75
R100G10R	R100F10R	1000	150	150	136	100	110	-	91,5	75
R100G11	R100F11	1000	150	155	136	100	110	-	96,5	75
R100G12	R100F12	1000	155	160	136	100	110	-	100,6	75
R100G13	R100F13	1000	160	165	136	100	110	-	104,6	75
R100G14	R100F14	1000	165	170	136	100	110	-	108,7	75
R100G15	R100F15	1000	170	175	136	100	110	-	112,7	75
R100G16	R100F16	1000	175	180	136	100	110	-	116,8	60
R100G17	R100F17	1000	180	185	136	100	110	-	120,8	60
R100G18	R100F18	1000	185	190	136	100	110	-	124,9	60
R100G19	R100F19	1000	190	195	136	100	110	-	128,9	60
R100G20	R100F20	1000	195	200	136	100	110	-	133	60
R100G20R	R100F20R	1000	200	200	136	100	110	-	133	60
R100G21	R100F21	1000	200	205	136	100	110	-	137,3	60
R100G22	R100F22	1000	205	210	136	100	110	-	141,6	60
R100G23	R100F23	1000	210	215	136	100	110	-	145,9	60
R100G24	R100F24	1000	215	220	136	100	110	-	150,2	60
R100G25	R100F25	1000	220	225	136	100	110	-	154,5	60
R100G26	R100F26	1000	225	230	136	100	110	-	158,8	45
R100G27	R100F27	1000	230	235	136	100	110	-	163,1	45
R100G28	R100F28	1000	235	240	136	100	110	-	167,4	45
R100G29	R100F29	1000	240	245	136	100	110	-	171,7	45
R100G30	R100F30	1000	245	250	136	100	110	-	176	45
R100G30R	R100F30R	1000	250	250	136	100	110	-	176	45
R100G40R	R100F40R	1000	300	300	136	100	110	-	220	45
<b>0,5 M CHANNELS</b>										
R100G10RM	R100F10RM	500	150	150	136	100	90	75	91,5	150
R100G20RM	R100F20RM	500	200	200	136	100	90	110	133	120



\*Vert. outlets on order.  
\*\*U shaped section.

## GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Opening (mm)	Units (x LM)
DUCTILE IRON	HEELPROOF SLOTTED	B125	FNHX100RGBM	500	127	8	2
	HEELPROOF SLOTTED	C250	FNHX100RBCM	500	127	8	2
	SLOTTED	D400	FNX100RGDM	500	127	14	2
	HEELPROOF SLOTTED	D400	FNHX100RGDM	500	127	8	2
	LONGITUDINAL SLOTTED	D400	FNLHX100RGDM	500	127	8	2
GALVANIZED STEEL	SINGLE SLOT (1)	D400	GRL100ROD	1000	131	9,8 / H105	1
	ACCESS UNIT (1)	D400	GRL100RODMA	500	128	9,8 / H105	2
	SINGLE SLOT (1)	D400	GRL100RODH150	1000	131	9,8 / H150	1
	ACCESS UNIT (1)	D400	GRL100RODMAH150	500	128	9,8 / H150	2
	HEELPROOF MESH	C250	GEHX100RGC	1000	127	30 x10	1
	HEELPROOF MESH	D400	GEHX100RGD	1000	127	30 x10	1

(1) Available Range in Stainless Steel.

\*For cross-drainage in heavy traffic areas, we recommend our KOMPAQDRAIN® system.

## LOCKING SYSTEM



## SUMP UNITS AND ACCESSORIES TABLE

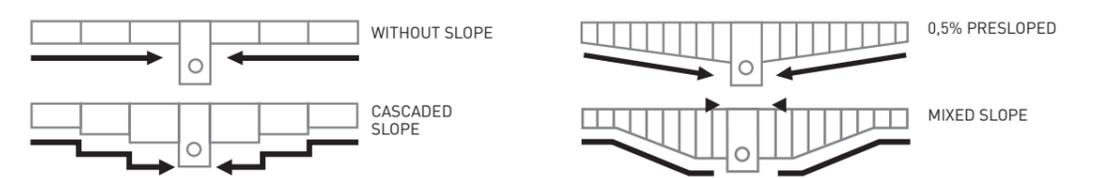
Code	L (mm)	H (mm)	Width (mm)	Ø Lateral Outlet (mm)	Ø Frontal Outlet (mm)	Sump Units
AR100G	500	490	136	110/160	90	1

## END CAPS

Channel	Channel					
	Rapidlock	Bolted system	Material	Code	Type	Accessory
R100GH8**	R100FH8**	Galvanized steel	TR100H8	CLOSED	-	-
		Polymer concrete	THPR100GH8C	CLOSED	-	-
R100G00R	R100F00R	Galvanized steel	TR10000C	CLOSED	-	-
		Polymer concrete	THPR100G00C	CLOSED	-	-
R100G10R	R100F10R	Galvanized steel	TR10010C	CLOSED	-	-
		Polymer concrete	THPR100G10C	CLOSED	-	-
		Galvanized steel	TR10010A	OPEN	-	110
		Polymer concrete	THPR100G10AJ	OPEN	Joint	110
R100G20R	R100F20R	Polymer concrete	THPR100G10AT	OPEN	Pipe	110
		Galvanized steel	TR10020C	CLOSED	-	-
		Polymer concrete	THPR100G20C	CLOSED	-	-
		Galvanized steel	TR10020A	OPEN	-	110
R100G30R	R100F30R	Polymer concrete	THPR100G20AJ	OPEN	Joint	110
		Polymer concrete	THPR100G20AT	OPEN	Pipe	110
		Galvanized steel	TR10030C	CLOSED	-	-
		Polymer concrete	THPR100G30C	CLOSED	-	-
R100G40R	R100F40R	Galvanized steel	TR10030A	OPEN	-	110
		Polymer concrete	THPR100G30AJ	OPEN	Joint	110
		Polymer concrete	THPR100G30AT	OPEN	Pipe	110
		Galvanized steel	TR10040C	CLOSED	-	-
R100G40R	R100F40R	Polymer concrete	THPR100G40C	CLOSED	-	-
		Galvanized steel	TR10040A	OPEN	-	110
		Polymer concrete	THPR100G40AJ	OPEN	Joint	110
		Polymer concrete	THPR100G40AT	OPEN	Pipe	110

BUCKET	STEP UNITS	SECURITY LOCK	CONNECTORS
Code	Code	Code	Channel
CR100	CER100	BLOQPRG18020	R100G10R
		Units x channel: 8	TCR100G10FFA
			R100G20R
			TCR100G20FFA
			R100G30R
			TCR100G30FFA
			R100G40R
			TCR100G40FFA

## SLOPE DESIGNS



MULTIV+®

MULTIV+®

# MULTIV+150

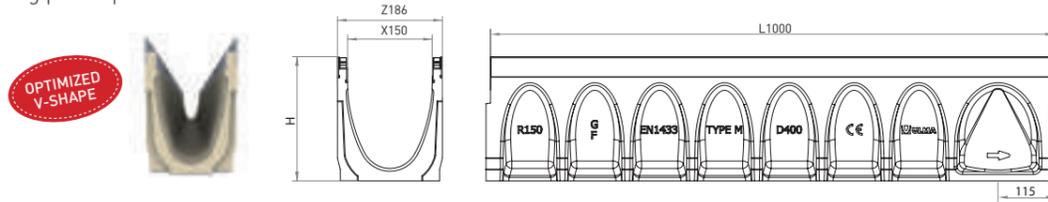
LOAD CLASS  
**UP TO D400 \***  
EN-1433 STANDARD



Enquiries UK  
Tel: 0800 0393367  
Email: info@killeshalprecast.co.uk

Enquiries Rep Irl  
Tel: 057 9353018  
Email: sales@killeshal.com

ULMA Linear Drainage Channel, type **MULTIV+® R150G**; External width 186 mm, Internal width 150 mm, with overall heights between 80 and 320 mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimized V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanized steel edges for lateral protection; Either **Rapidlock®** boltless system or screw-fastened. 8 locking points per linear metre.



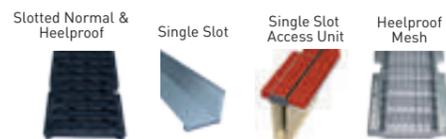
Available with ductile iron and stainless steel edge rails (Code: R150GX).

## CHANNELS

Channel Code		L (mm)	H (mm)		Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm <sup>2</sup> )	Units (x pallet)
Rapidlock	Bolted system		Initial	Final	Z	X	Vert.	Hor.		
R150GH8**	R150FH8**	1000	80	80	186	150	160	-	60	81
R150GH12**	R150FH12**	1000	120	120	186	150	160	-	119	72
R150G00R	R150F00R	1000	170	170	186	150	160	-	156	45
R150G10R	R150F10R	1000	220	220	186	150	160	-	218	36
R150G11	R150F11	1000	220	225	186	150	160	-	225,5	36
R150G12	R150F12	1000	225	230	186	150	160	-	231,9	36
R150G13	R150F13	1000	230	235	186	150	160	-	238,3	36
R150G14	R150F14	1000	235	240	186	150	160	-	244,6	36
R150G15	R150F15	1000	240	245	186	150	160	-	251,0	36
R150G16	R150F16	1000	245	250	186	150	160	-	257,4	36
R150G17	R150F17	1000	250	255	186	150	160	-	263,8	36
R150G18	R150F18	1000	255	260	186	150	160	-	270,2	36
R150G19	R150F19	1000	260	265	186	150	160	-	276,5	36
R150G20	R150F20	1000	265	270	186	150	160	-	283	36
R150G20R	R150F20R	1000	270	270	186	150	160	-	283	36
R150G30R	R150F30R	1000	320	320	186	150	160	-	350	27
<b>0,5 M CHANNELS</b>										
R150G00RM	R150F00RM	500	170	170	186	150	110	90	156	90
R150G10RM	R150F10RM	500	220	220	186	150	110	125	218	50

\*Vert. outlets on order.  
\*\*U shaped section.

0,5 m. Channels



## GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Opening (mm)	Units (x LM)
DUCTILE IRON	HEELPROOF SLOTTED	C250	FNHX150RGCM	500	177	8	2
	SLOTTED	D400	FNX150RGDM	500	177	14	2
	HEELPROOF SLOTTED	D400	FNHX150RGDM	500	177	8	2
GALVANIZED STEEL	SINGLE SLOT (1)	D400	GRL150ROD	1000	181	9,8 / H105	1
	ACCESS UNIT (1)	D400	GRL150RODMA	500	178	9,8 / H105	2
	SINGLE SLOT (1)	D400	GRL150RODH150	1000	181	9,8 / H150	1
	ACCESS UNIT (1)	D400	GRL150RODMAH150	500	178	9,8 / H150	2
	HEELPROOF MESH	C250	GEHX150RGC	1000	177	30 x 10	1

(1) Available Range in Stainless Steel.

\*For cross-drainage in heavy traffic areas, we recommend our KOMPAQDRAIN® system.

## LOCKING SYSTEM



## SUMP UNITS AND ACCESSORIES TABLE

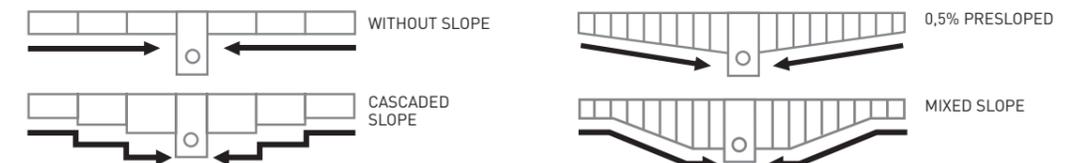
AR150G	Code		L (mm)	H (mm)	Width (mm)	Ø Lateral Outlet (mm)	Ø Frontal Outlet (mm)	Sump Units
	Rapidlock	Bolted system						
	AR150G	AR150F	500	590	186	160/200	110	1

## END CAPS

Rapidlock	Bolted system	Channel		Material	Code	Type	Accessory	Ø (mm)
		Rapidlock	Bolted system					
R150GH8**	R150FH8**	Galvanized steel	TR150H8	CLOSED	-	-	-	-
R150GH12**	R150FH12**	Polymer concrete	THPR150GH8C	CLOSED	-	-	-	-
R150G00R	R150F00R	Galvanized steel	TR15000C	CLOSED	-	-	-	-
		Polymer concrete	THPR150G00C	CLOSED	-	-	-	-
		Galvanized steel	TR15000A	OPEN	-	160	-	-
R150G10R	R150F10R	Polymer concrete	THPR150G00AJ	OPEN	Joint	160	-	-
		Polymer concrete	THPR150G00AT	OPEN	Pipe	160	-	-
		Galvanized steel	TR15010C	CLOSED	-	-	-	-
R150G20R	R150F20R	Polymer concrete	THPR150G10C	CLOSED	-	-	-	-
		Galvanized steel	TR15010A	OPEN	-	160	-	-
		Polymer concrete	THPR150G10AJ	OPEN	Joint	160	-	-
R150G30R	R150F30R	Polymer concrete	THPR150G10AT	OPEN	Pipe	160	-	-
		Galvanized steel	TR15020C	CLOSED	-	-	-	-
		Polymer concrete	THPR150G20C	CLOSED	-	-	-	-
R150G20R	R150F20R	Galvanized steel	TR15020A	OPEN	-	160	-	-
		Polymer concrete	THPR150G20AJ	OPEN	Joint	160	-	-
		Polymer concrete	THPR150G20AT	OPEN	Pipe	160	-	-
R150G30R	R150F30R	Galvanized steel	TR15030C	CLOSED	-	-	-	-
		Polymer concrete	THPR150G30C	CLOSED	-	-	-	-
		Galvanized steel	TR15030A	OPEN	-	160	-	-
R150G30R	R150F30R	Polymer concrete	THPR150G30AJ	OPEN	Joint	160	-	-
		Polymer concrete	THPR150G30AT	OPEN	Pipe	160	-	-

BUCKET	STEP UNITS	SECURITY LOCK		CONNECTORS	
Code	Code	Code	Units x channel	Channel	Code
CR150	CER150	BLOQPRG18020	8	R150G00R	TCR150G00FFA
				R150G10R	TCR150G10FFA
				R150G20R	TCR150G20FFA
				R150G30R	TCR150G30FFA

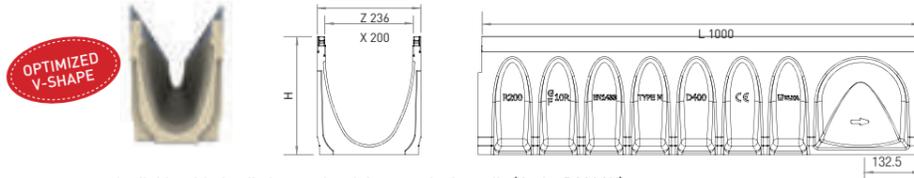
## SLOPE DESIGNS



# MULTIV+200

LOAD CLASS  
**UP TO D400\***  
EN-1433 STANDARD

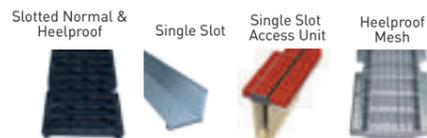
ULMA Linear Drainage Channel, type **MULTIV+® R200G**, External width 236 mm, Internal width 200 mm, with overall heights between 80 and 370 mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimized V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanized steel edges for lateral protection; Either **Rapidlock®** boltless system or screw-fastened. 8 locking points per linear metre.



Available with ductile iron and stainless steel edge rails (Code: R200GX).

## CHANNELS

Channel Code		L (mm)	H (mm)		Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm <sup>2</sup> )	Units (x pallet)
Rapidlock	Bolted system		Initial	Final	Z	X	Vert.	Hor.		
R200GH8**	R200FH8**	1000	80	80	236	200	160	-	79	42
R200GH12**	R200FH12**	1000	120	120	236	200	160	-	159	42
R200G00R	R200F00R	1000	170	170	236	200	200	-	204	35
R200G00R	R200F00R	1000	220	220	236	200	200	-	284	28
R200G01	R200F01	1000	220	225	236	200	160	-	294,6	28
R200G02	R200F02	1000	225	230	236	200	160	-	302,7	28
R200G03	R200F03	1000	230	235	236	200	160	-	310,9	28
R200G04	R200F04	1000	235	240	236	200	160	-	319	28
R200G05	R200F05	1000	240	245	236	200	160	-	327,2	28
R200G06	R200F06	1000	245	250	236	200	160	-	335,3	21
R200G07	R200F07	1000	250	255	236	200	160	-	343,5	21
R200G08	R200F08	1000	255	260	236	200	160	-	351,6	21
R200G09	R200F09	1000	260	265	236	200	160	-	359,8	21
R200G10	R200F10	1000	265	270	236	200	160	-	368	21
R200G10R	R200F10R	1000	270	270	236	200	200	-	368	21
R200G11	R200F11	1000	270	275	236	200	160	-	388,4	21
R200G12	R200F12	1000	275	280	236	200	160	-	396,1	21
R200G13	R200F13	1000	280	285	236	200	160	-	403,8	21
R200G14	R200F14	1000	285	290	236	200	160	-	411,6	21
R200G15	R200F15	1000	290	295	236	200	160	-	419,3	21
R200G16	R200F16	1000	295	300	236	200	160	-	427	21
R200G17	R200F17	1000	300	305	236	200	160	-	434,8	21
R200G18	R200F18	1000	305	310	236	200	160	-	442,5	21
R200G19	R200F19	1000	310	315	236	200	160	-	450,2	21
R200G20	R200F20	1000	315	320	236	200	160	-	458	21
R200G20R	R200F20R	1000	320	320	236	200	200	-	458	21
R200G30R	R200F30R	1000	370	370	236	200	200	-	542	21
<b>0,5 M CHANNELS</b>										
R200G00RM	R200F00RM	500	220	220	236	200	160	125	284	-
R200G10RM	R200F10RM	500	270	270	236	200	160	160	368	-



\*Vert. outlets on order.  
\*\*U shaped section.

## GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Opening (mm)	Units (x LM)
DUCTILE IRON	HEELPROOF SLOTTED	C250	FNHX200RGCM	500	227	8	2
	SLOTTED	D400	FNX200RGDM	500	227	14	2
	HEELPROOF SLOTTED	D400	FNHX200RGDM	500	227	8	2
GALVANIZED STEEL	SINGLE SLOT (1)	D400	GRL200ROD	1000	231	9,8 / H105	1
	ACCESS UNIT (1)	D400	GRL200RODMA	500	228	9,8 / H105	2
	SINGLE SLOT (1)	D400	GRL200RODH150	1000	231	9,8 / H150	1
	ACCESS UNIT (1)	D400	GRL200RODMAH150	500	228	9,8 / H150	2
	HEELPROOF MESH	C250	GEHX200RGC	1000	227	30 x 10	1

(1) Available Range in Stainless Steel.

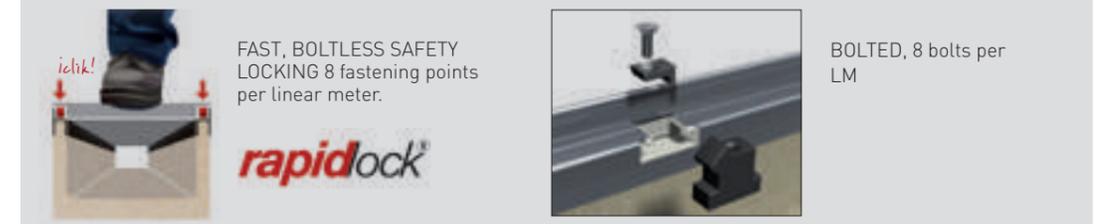
\*For cross-drainage in heavy traffic areas, we recommend our KOMPAQDRAIN® system.



Enquiries UK  
Tel: 0800 0393367  
Email: info@killeshalprecast.co.uk

Enquiries Rep Irl  
Tel: 057 9353018  
Email: sales@killeshal.com

## LOCKING SYSTEM



## SUMP UNITS AND ACCESSORIES TABLE

AR200G	Code		L (mm)	H (mm)	Width (mm)	Ø Lateral Outlet (mm)	Ø Frontal Outlet (mm)	Sump Units
	Rapidlock	Bolted system						
	AR200G	AR200F	500	550	236	160/200	110	1

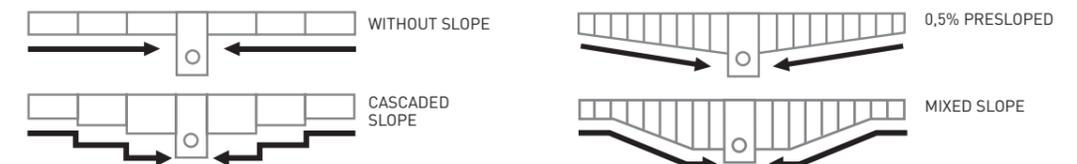
## END CAPS



Channel		Material	Code	Type	Accessory	Ø (mm)
Rapidlock	Bolted system					
R200GH8*	R200FH8**	Galvanized steel	TR200H8	CLOSED	-	-
		Polymer concrete	THPR200GH8C	CLOSED	-	-
R200GH12**	R200FH12**	Galvanized steel	TR200H12	CLOSED	-	-
		Polymer concrete	THPR200GH12C	CLOSED	-	-
R200G00R	R200F00R	Galvanized steel	TR200000C	CLOSED	-	-
		Polymer concrete	THPR200G000C	CLOSED	-	-
		Galvanized steel	TR200000A	OPEN	-	110
		Polymer concrete	THPR200G000AJ	OPEN	Joint	110
		Polymer concrete	THPR200G000AT	OPEN	Pipe	110
R200G00R	R200F00R	Galvanized steel	TR200000C	CLOSED	-	-
		Polymer concrete	THPR200G00C	CLOSED	-	-
		Galvanized steel	TR200000A	OPEN	-	160
		Polymer concrete	THPR200G00AJ	OPEN	Joint	160
		Polymer concrete	THPR200G00AT	OPEN	Pipe	160
R200G10R	R200F10R	Galvanized steel	TR20010C	CLOSED	-	-
		Polymer concrete	THPR200G10C	CLOSED	-	-
		Galvanized steel	TR20010A	OPEN	-	110
		Polymer concrete	THPR200G10AJ	OPEN	Joint	160
		Polymer concrete	THPR200G10AT	OPEN	Pipe	160
R200G20R	R200F20R	Galvanized steel	TR20020C	CLOSED	-	-
		Polymer concrete	THPR200G20C	CLOSED	-	-
		Galvanized steel	TR20020A	OPEN	-	110
		Polymer concrete	THPR200G20AJ	OPEN	Joint	160
		Polymer concrete	THPR200G20AT	OPEN	Pipe	160
R200G30R	R200F30R	Galvanized steel	TR20030C	CLOSED	-	-
		Polymer concrete	THPR200G30C	CLOSED	-	-
		Galvanized steel	TR20030A	OPEN	-	110
		Polymer concrete	THPR200G30AJ	OPEN	Joint	160
		Polymer concrete	THPR200G30AT	OPEN	Pipe	160

BUCKET	STEP UNITS	SECURITY LOCK		CONNECTORS	
Code	Code	Code	Units x channel	Channel	Code
CR200	CER200	BLOQPRG18020	8	R200G00R	TCR200G00FFA
				R200G10R	TCR200G10FFA
				R200G20R	TCR200G20FFA
				R200G30R	TCR200G30FFA

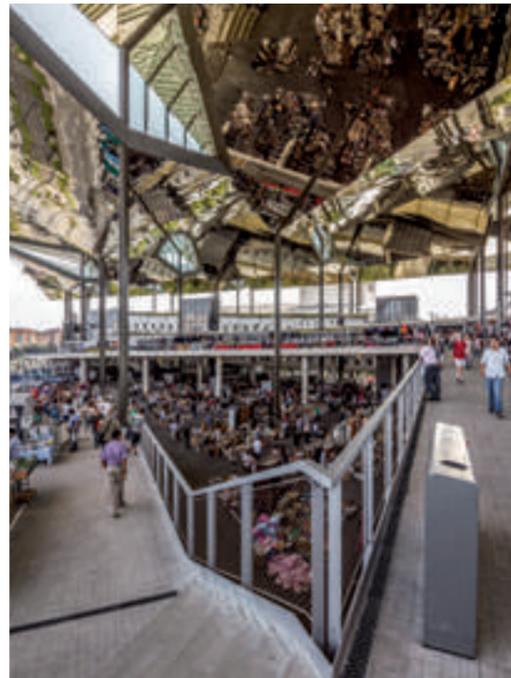
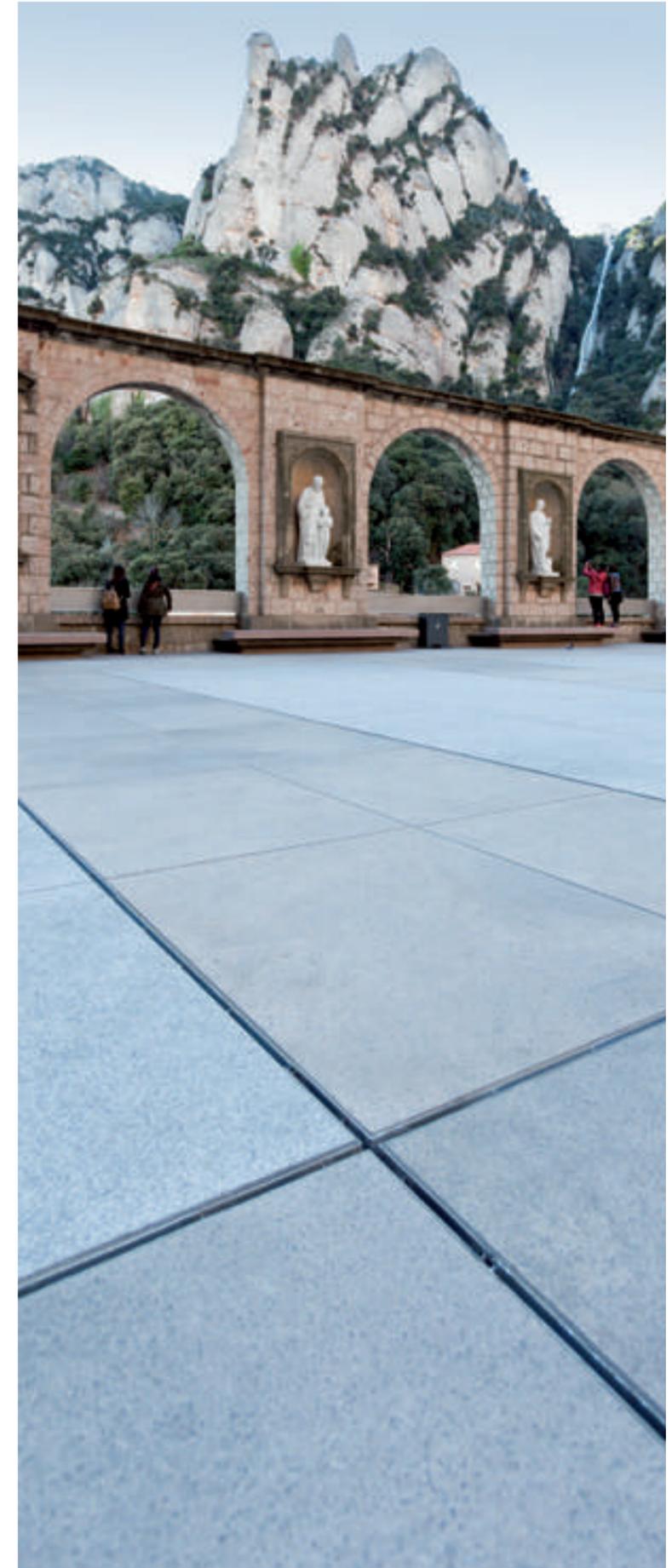
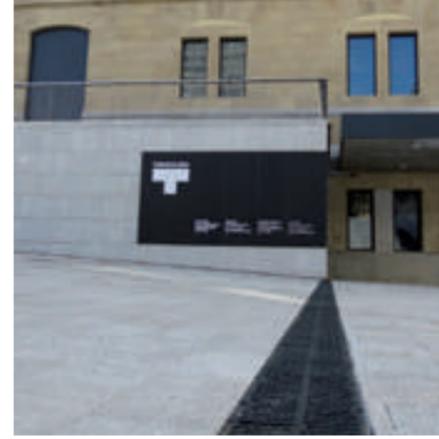
## SLOPE DESIGNS





Enquiries UK  
 Tel: 0800 0393367  
 Email: info@killeshalprecast.co.uk

Enquiries Rep Irl  
 Tel: 057 9353018  
 Email: sales@killeshal.com



MULTIV+®

MULTIV+®