

DOMPACT CHANNEL KOMPAQDRAIN®

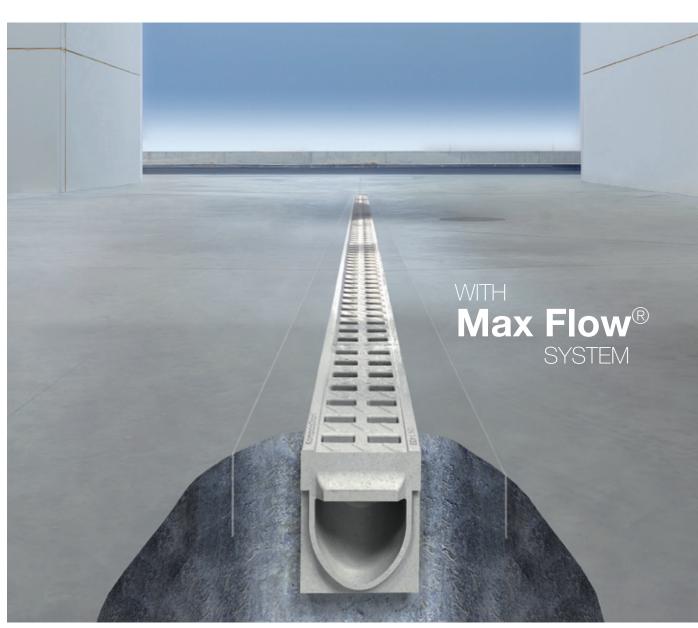


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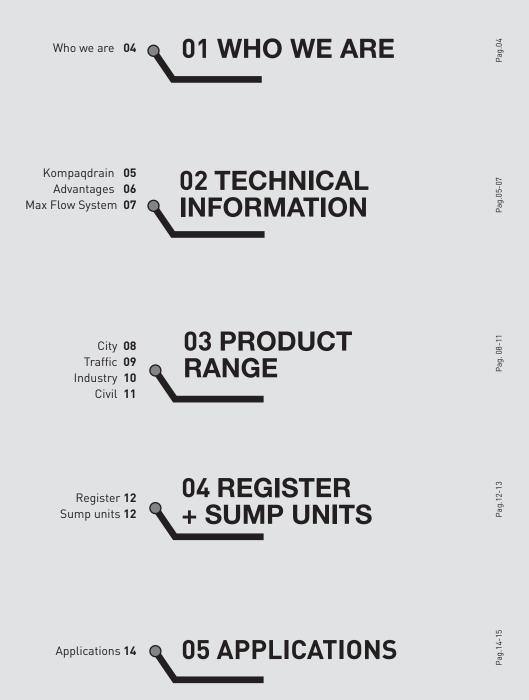
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See more online at www.killeshal.com



INDEX









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MATERIAL

COMPRESSIVE STRENGTH

The polymer concrete used in prefabricated systems is capable of withstanding compression forces greater than 1000kg/cm².

FLUID DRAINAGE

The polymeric nature of this material allows smooth surfaces with very low friction on prefabricated elements, thereby facilitating the rapid run-off of fluids and also offering a water absorption index which is virtually non-existent, compared with 5-10% of traditional concrete.

RESISTANCE TO CHEMICAL PRODUCTS

Polyester resin, one of the components of Polymer Concrete, is a material resistant to a very wide range of chemical products; it is an inert material and therefore does not react when it comes into contact with chemical compounds, no matter its

ABRASIVE WEAR

The hardness of silica aggregates ensures good preservation of structures exposed to road traffic, since polymer concrete shows optimal resistance to abrasion.

IMPACT RESISTANCE

The qualities of this material, together with its optimal prefabrication design, increase its capacity to withstand and absorb impact forces, making it highly resistant.

POLYMER CONCRETE is high а performance material made up of a precise combination of silica and quartz aggregates bonded by polyester resins.





traditional concretes, its polymer matrix ensures a high **resistance to most chemical** products. Moreover, the percentage of water absorption is practically nonexistent, ensuring its stability during freeze-thaw cycles. Its great impact strength and low abrasive wear are additional features that make polymer concrete the ideal material for the drainage of water and a wide variety of other fluids, even in such demanding environments as the industrial, food, chemical and pharmaceutical sectors.

PHYSICAL PROPERTIES	STANDARD	VALUE
Compressive strength	EN1433	>90 MPa
Resistance to bending	EN1433	>22 MPa
Water absorption	EN 14617-1	0.1%
Resistance to bending after freeze/thaw cycles	EN 14617-5	23.8 MPa
Resistance to abrasive wear	EN 14617-4	32.5 MPa
Resistance to impact	EN 14617-9	5 J
Density	EN 14617-1	2.1 g/cm3
Resistance to thermal change	EN 14617-6	23.6 MPa
Coefficient of linear thermal expansion	-	2.15-10 ⁻⁵ °C ⁻¹
Resistance to chemicals	EN 14617-10	C4





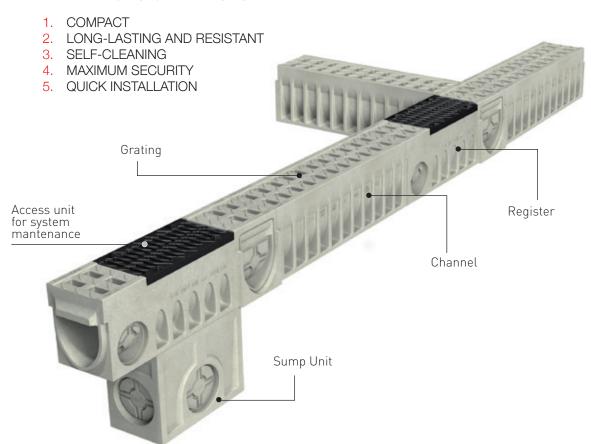
Compact Channel KOMPAQDRAIN® with Max Flow® system

Specially designed for areas with high traffic density by **ULMA Architectural Solutions,** specialists in drainage system, this novel compact channel made of polymer concrete, is suitable up to load class F900, according to standard EN-1433.

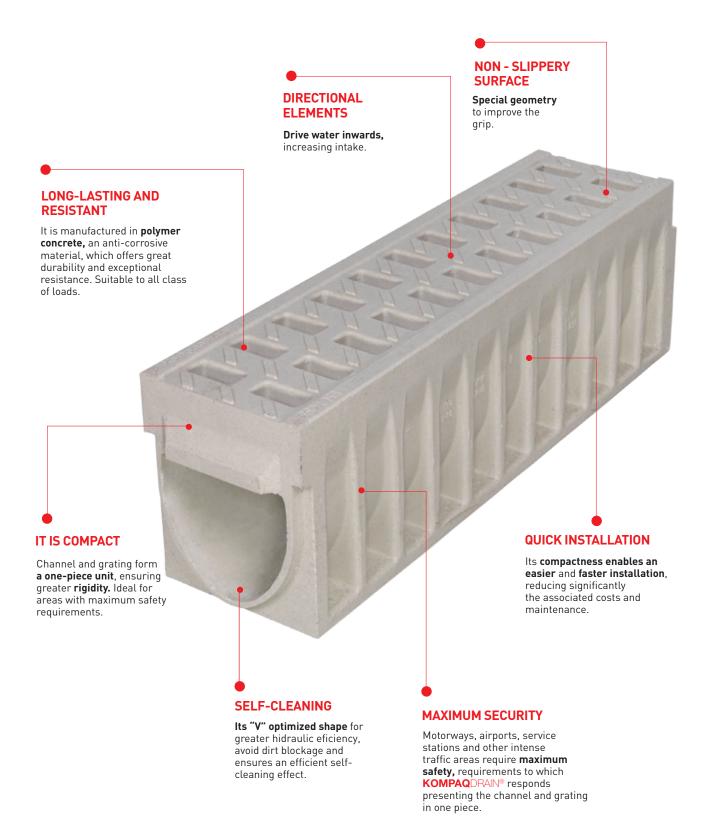




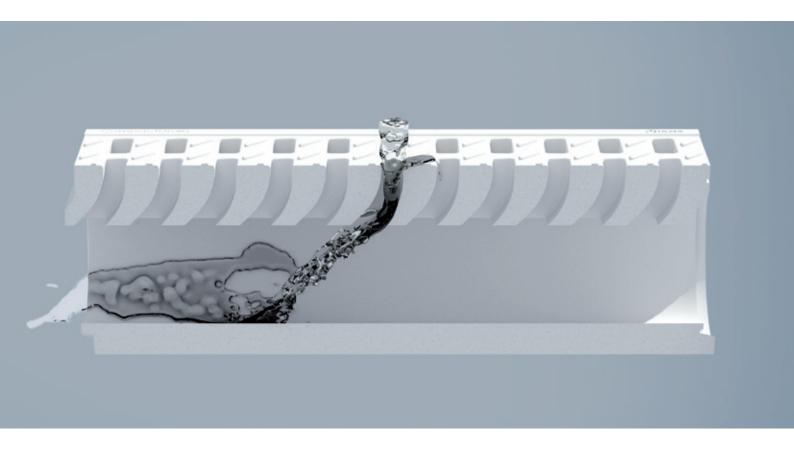
ADVANTAGES OF THE SYSTEM



KOMPAQDRAIN® ADVANTAGES



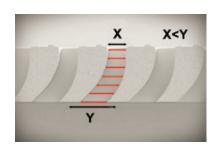
Max Flow® SYSTEM



The original curved design of the inlets, together with the non-slip surface and water router, achieve the novel **Max Flow**® effect, **increasing the water speed and the drainage capacity**. Moreover, the progressive widening of the orifices helps the waste pass through more easily. Therefore **KOMPAQDRAIN**® can drain the same volume of water with a smaller channel.

KOMPAQDRAIN® meets all requirements of the EN-1433 international standard of quality and reliability.





// PROGRESSIVE WIDENING TO PREVENT
DIRT BLOCKAGE

KOMPAQ200

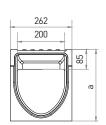


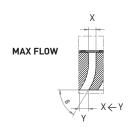
LOAD CLASS **UP TO D400** EN - 1433 STANDARD

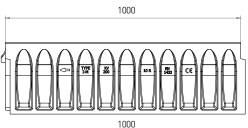
Linear Drainage Channel model ULMA KompaqDrain® KVFDH200, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal-proof and corrosion resistant. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self cleaning effect at low flow, increase at maximum flow and

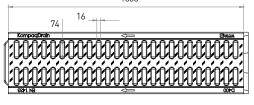
positive opening in order to avoid dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes, with non slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed groove to facilitate joint sealing in 360°.











CHANNELS

			Channel	width (mm)
Channel Code	Length (mm)	Height (mm)	External	Internal
KVFDH200.10R	1000	305	262	200
KVFDH200.30R	1000	505	262	200
KVFDH200.50R	1000	705	262	200

REGISTERS

	Length	Height	Channel v	width (mm)	Lateral	Vertical	T and +
Channel code	(mm)	(mm)	External	Internal	Outlet (mm)	Outlet (mm)	channel connection
AKVFDH200MF10R+D	1000	305	262	200	160 160	160	Yes
AKVFDH200MF30R+D	1000	505	262	200	315 315	200	Yes
AKVFDH200MF50R+D	1000	705	262	200	315 315	200	Yes



SUMP UNITS AND ACCESSORIES

Sump Unit Code	Length		Channel width (mm)		Frontal Outlet	Lateral Outlet				Galvanized
	(mm)	(mm)	Ext.	Int.	(mm)	steel bucket				
AKVF200B	500	380	262	200	200	200	315	CKV200		
AKVF200B+AKVF200I	500	760	262	200	200	200	315	CKV200		







- ** The Sump unit can be higher incorporating an intermediate unit of 380mm.
- *** More info about sump units and registers on page 12.

END CAPS						
Channel	Code					
KVFDH200.10R	TKVFDH20010C					
KVFDH200.30R	TKVFDH20030C					
KVFDH200.50R	TKVFDH20050C					



H200.50R	INVFDHZUUSI



Code
TCKVFDH20010FFA
TCKVFDH20010MMA
TCKVFDH20030FFA
TCKVFDH20030MMA
TCKVFDH20050FFA
TCKVFDH20050MMA

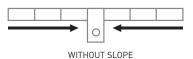


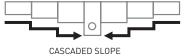






Step unit CEKV200





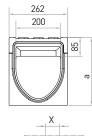
^{*} Cast iron edges, galvanized and stainless steel edges available.

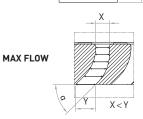
KOMPAQ200 TRAFFIC

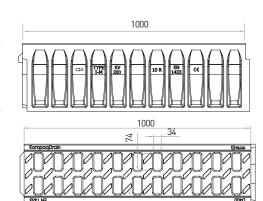
LOAD CLASS **UP TO D400** EN - 1433 STANDARD

Linear Drainage Channel model ULMA KompaqDrain® Traffic KVFD200, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandalproof and corrosion resistant. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self cleaning effect at low flow, increase at maximum flow and positive opening in order to avoid dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes, with non slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed groove to facilitate joint sealing in 360°.









CHANNELS

		, ,		width (mm)
Channel Code	Length (mm)	Height (mm)	External	Internal
KVFD200.10R	1000	305	262	200
KVFD200.30R	1000	505	262	200
KVFD200.50R	1000	705	262	200

REGISTERS

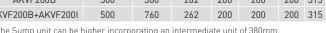
	Length	Height	Channel	width (mm)	Late		Vertical	T and +
Channel code	(mm)	(mm)	External	Internal	Outlet (mm)		Outlet (mm)	channel connection
AKVFD200MF10R+D	1000	305	262	200	160	160	160	Yes
AKVFD200MF30R+D	1000	505	262	200	315	315	200	Yes
AKVFD200MF50R+D	1000	705	262	200	315	315	200	Yes







SUMP UNITS AND ACCESSURIES											
	Sump Unit Code	Length	Height	Chan width (nel mm)	Frontal Outlet	Late Out		Galvanized		
		(mm)	(mm) (mm)		Ext.	Int.	(mm)	(mm)		steel bucket	
	AKVF200B	500	380	262	200	200	200	315	CKV200		
	AKVF200B+AKVF200I	500	760	262	200	200	200	315	CKV200		





^{***} More info about sump units and registers on page 12.





SLOP	E DESIG	NS

CONNECTORS						
Channel	Code					
KVFD200 10R	TCKVFD20010FFA					
KVFD200.10R	TCKVFD20010MMA					
KVFD200 30R	TCKVFD20030FFA					
KVFD200.30R	TCKVFD20030MMA					
KVFD200.50R	TCKVFD20050FFA					
KVFD200.JUK	TCKVFD20050MMA					











Step unit



KOMPAQ200 INDUSTRY

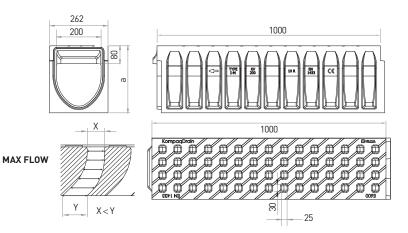


LOAD CLASS **UP TO E600** EN - 1433 STANDARD

Linear Drainage Channel model ULMA KompaqDrain® Industry KVE200E2530, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandalproof and corrosion resistant. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self cleaning effect at low flow, increase at maximum

flow and positive opening in order to avoid dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes. Male and female horizontal and vertical alignment and perimetral preformed groove to facilitate joint sealing in 360°.





CHANNELS	011	AND	N III	-1 0
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			Channel width (mm)			
Channel Code	Length (mm)	Height (mm)	External	Internal		
KVE200.10R	1000	300	262	200		
KVE200.30R	1000	500	262	200		
KVE200.50R	1000	700	262	200		

REGISTERS

Channel code	Length	Height	,	hannel width (mm)		eral tlet	Vertical Outlet	T and + channel
	lmmJ	[mm]	External	Internal	(m	m)	(mm)	connection
AKVE200MF10R+E	1000	300	262	200	160	160	160	Yes
AKVE200MF30R+E	1000	500	262	200	315	315	200	Yes
AKVE200MF50R+E	1000	700	262	200	315	315	200	Yes



SUMP UNITS AND ACCESSORIES

SOME STATE ASSESSORIES								
Sump Unit Code	Length	Height	Chan width (nel mm)	Frontal Outlet	Late Out		Galvanized steel bucket
	lmmJ	lmmJ	Ext.	Int.	(mm)	(m	m)	Steet bucket
AKVF200B	500	380	262	200	200	200	315	CKV200
AKVF200B+AKVF200I	500	760	262	200	200	200	315	CKV200







- ** The Sump unit can be higher incorporating an intermediate unit of 380 mm.
- *** More info about sump units and registers on page 12.

END (CAPS
Channel	Code
KVE200.10R	TKVE20010C
KVE200.30R	TKVE20030C
KVE200.50R	TKVE20050C
400	



CONNECTORS					
Channel	Code				
KVE200.10R	TCKVE20010FFA				
	TCKVE20010MMA				
KVE200.30R	TCKVE20030FFA				
	TCKVE20030MMA				
KVE200.50R	TCKVE20050FFA				
	TCKVE20050MMA				















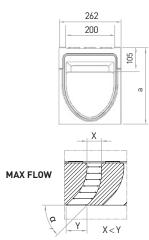
^{*} Cast iron edges, galvanized and stainless steel edges available.

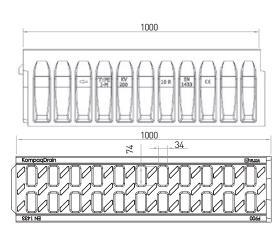
LOAD CLASS **UP TO F900** EN - 1433 STANDARD

Linear Drainage Channel model ULMA KompaqDrain® Civil KVF200, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal-proof and corrosion resistant. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self cleaning effect at low flow, increase at maximum

flow and positive opening in order to avoid dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed groove to facilitate joint sealing in 360°.







CHANNELS

-							
ı				Channel width (mm)			
	Channel Code	Length (mm)	Height (mm)	External	Internal		
	KVF200.10R	1000	325	262	200		
	KVF200.30R	1000	525	262	200		
	KVF200.50R	1000	725	262	200		

RE(

	Length	Height	Channel v	width (mm)	Lateral Outlet (mm)				Vertical	T and +
Channel code	(mm)	(mm)	External	Internal			Outlet (mm)	channel connection		
AKVF200MF10R+F	1000	325	262	200	160	160	160	Yes		
AKVF200MF30R+F	1000	525	262	200	315	315	200	Yes		
AKVF200MF50R+F	1000	725	262	200	315	315	200	Yes		



SLIMP LINITS AND ACCESSORIES

SOME ONLY AND ACCESSORIES								
Sump Unit Code	Length	Height	Chan width (Frontal Outlet	Late Out		Galvanized steel bucket
	(mm)	lmmJ	Ext.	Int.	(mm)	(mi	m)	Steet bucket
AKVF200B	500	380	262	200	200	200	315	CKV200
AKVF200B+AKVF200I	500	760	262	200	200	200	315	CKV200



^{***} More info about sump units and registers on page 12.





VV	
STUDE DESIGNS	



CONNECTORS					
Channel	Code				
KVF200.10R	TCKVF20010FFA				
	TCKVF20010MMA				
KVF200.30R	TCKVF20030FFA				
	TCKVF20030MMA				
KVF200.50R	TCKVF20050FFA				
	TCKVF20050MMA				



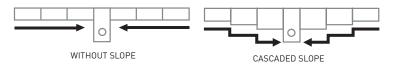






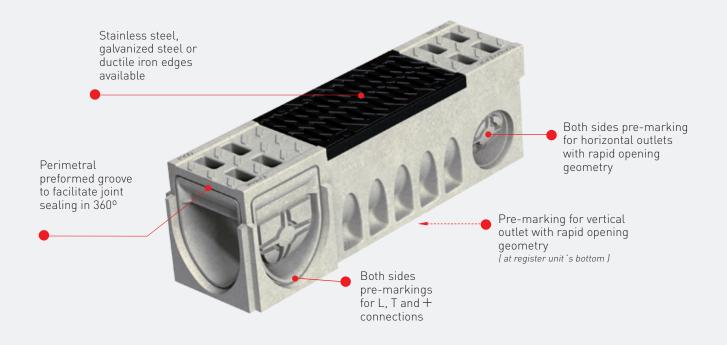


CEKV200

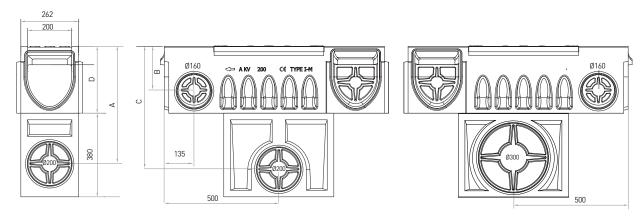


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REGISTER



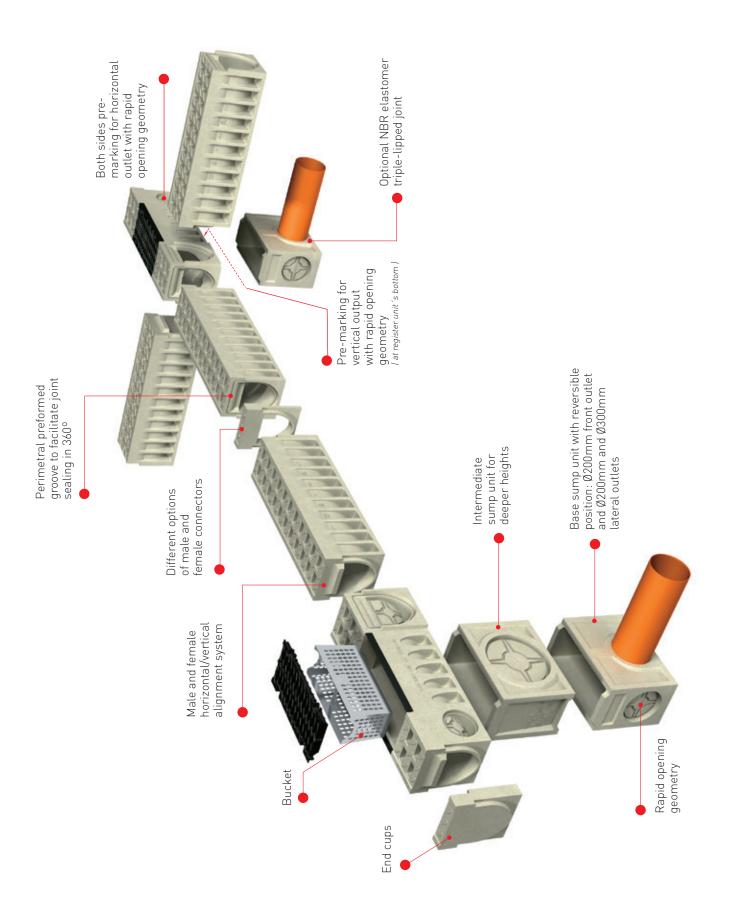
SUMP UNITS



	SUMP UNITS SUPERIOR + BASE				
	Code	Α	В	С	D
KVFDH	AKVFDH200MF10RS+B+D	535	205	505	305
	AKVFDH200MF30RS+B+D	735	405	705	505
	AKVFDH200MF50RS+B+D	935	605	905	705
KVFD	AKVFD200MF10RS+B+D	535	205	505	305
	AKVFD200MF30RS+B+D	735	405	705	505
	AKVFD200MF50RS+B+D	935	605	905	705
KVE	AKVE200MF10RS+B+E	530	200	500	300
	AKVE200MF30RS+B+E	730	400	700	500
	AKVE200MF50RS+B+E	930	600	900	700
KVF	AKVF200MF10RS+B+F	555	225	525	325
	AKVF200MF30RS+B+F	755	425	725	525
	AKVF200MF50RS+B+F	955	625	925	725



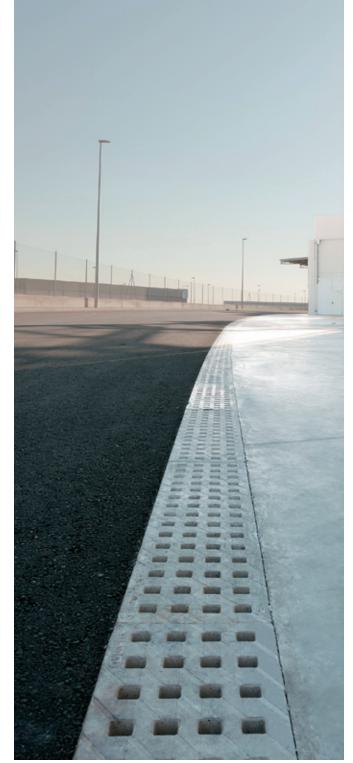
KOMPAQDRAIN® OVERVIEW



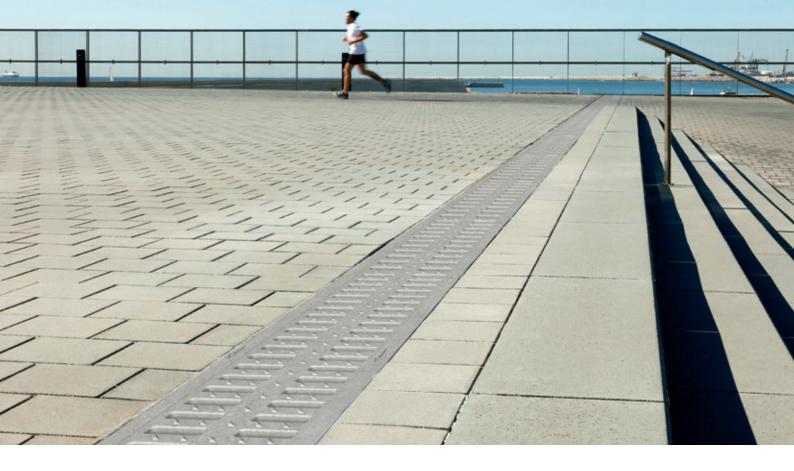
























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