

F SYSTEM

APPLICATIONS: MOTORWAYS AND AIRPORTS, LOADING AND UNLOADING AREAS, PORTS...

Channels with attachment of the grating to the channel with 4 screws per grating, designed for heavy traffic areas and especially for sections where the grating is subject to large axial forces due to the manoeuvring and braking of vehicles, such as service stations, loading and unloading areas in ports and warehouses, airports, public roads, car parks for heavy vehicles, etc.

The channels are reinforced with galvanized steel profiles at the sides. It is possible to incorporate a continuous 2.5% slope and or cascaded slope.

Available with modular cast iron grating with a load class of up to F900.



WITHOUT SLOPE

F100K
F150K
F200K
F250K
F300K



2,5% PRESLOPED

F150K
F250K



CASCADED SLOPE

F100K
F150K
F200K
F250K
F300K



MIXED SLOPE

F150K
F250K

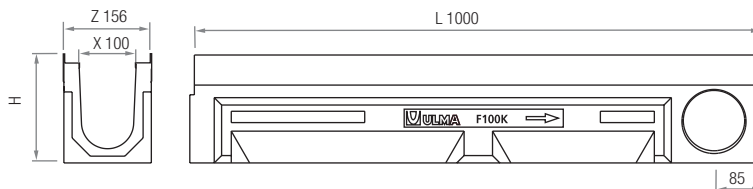


F100K

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F100K: External width 156mm; Internal width 100mm; Available with overall heights between 190mm and 310mm. Suitable for cascaded type slope to collect rainwater in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.

*Also available with cast iron edges.



Channel	L (mm)	H (mm)	Width (mm)		Ø Outlet*(mm)		Hydraul. Section (cm ²)	Pcs. / Pallet
			Z	X	Vert.	Hor.		
F100K00R	1000	190	156	100	110	110	126	52
F100K10R	1000	250	156	100	110	-	184	39
F100K20R	1000	310	156	100	110	110	242	39

*Vert. and horiz. outlets on order.

Slotted Solid

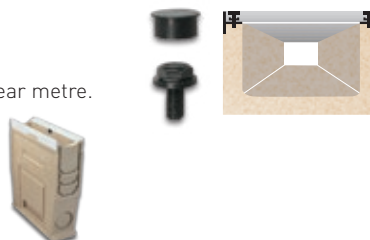


GRATINGS

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	D400	FN100FTDM	500	145	2
	SLOTTED	E600	FNX100FTEM	500	145	2
	SOLID	F900	FC100FTFM	500	145	2
	SLOTTED	F900	FNX100FTFM	500	145	2

LOCKING SYSTEM

8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per linear metre.



SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AF100	500	580	156	110/160	110	1	CU100



Channel	Code	Type	Ø (mm)
F100K00R	T100F00C	CLOSED	-
	T100F00A	OPEN	110
F100K10R	T100F10C	CLOSED	-
	T100F10A	OPEN	110
F100K20R	T100F20C	CLOSED	-
	T100F20A	OPEN	110

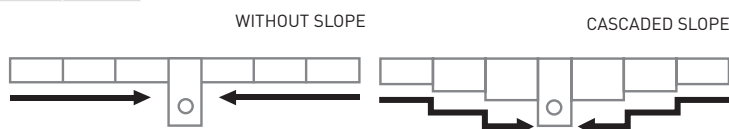
STEP UNITS

Code
CEF100

GALVANIZED STEEL BUCKET

Code
CU100

SLOPE DESIGNS

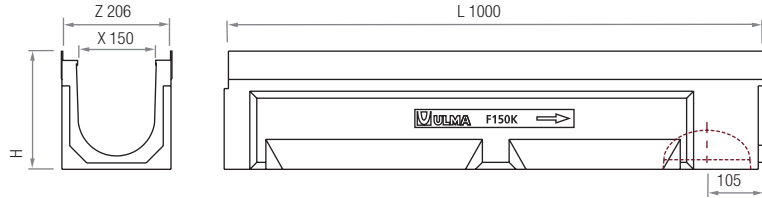


F150K

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F150K: External width 206mm; Internal width 150mm; Available with overall heights between 220mm and 370mm. Suitable for cascaded type slope to collect rainwater, in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.

*Also available with cast iron or stainless steel edges.

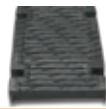


Channel	L (mm)	H (mm)	Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm ²)	Pcs. / Pallet
			Z	X	Vert.	Hor.		
F150K00R	1000	220	206	150	160	-	230	45
F150K10R	1000	270	206	150	160	-	305	36
F150K20R	1000	320	206	150	160	160	380	27
F150K30R	1000	370	206	150	160	-	457	27

*Vert. and horiz. outlets on order.

Slotted

Solid

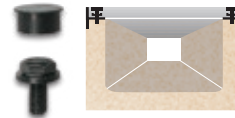


GRATINGS

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	D400	FNX150FTDM	500	195	2
	SLOTTED	E600	FNX150FTEM	500	195	2
	SLOTTED	F900	FNX150FTFM	500	195	2
	SOLID	F900	FC150FTFM	500	195	2

LOCKING SYSTEM

8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per linear metre.



SUMP UNITS AND ACCESSORIES TABLE

AF150



AF150S+A150B

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AF150	500	350	206	160	110	1	-
AF150S + A150B	500	655*	206	160	110	2	C150

* The Sump unit can be higher incorporating an intermediate unit.

END CAPS		Closed	Open
Channel	Code	Type	Ø (mm)
F150K00R	T150K00C	CLOSED	-
	T150K00A	OPEN	160
F150K10R	T150K10C	CLOSED	-
	T150K10A	OPEN	160
F150K20R	T150K20C	CLOSED	-
	T150K20A	OPEN	160
F150K30R	T150K30C	CLOSED	-
	T150K30A	OPEN	160

STEP UNITS

Code

CE150



GALVANIZED STEEL BUCKET *

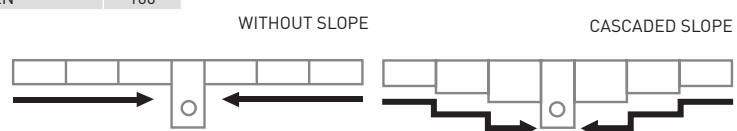
Code

C150



*Only applicable if 2 sump units are installed.

SLOPE DESIGNS

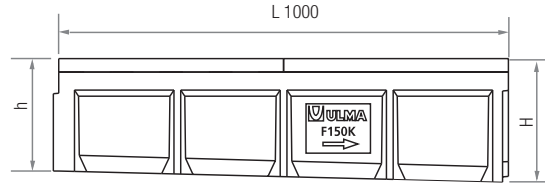
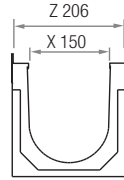


F150K SLOPE 2,5%

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F150K: External width 206mm; Internal width 150mm; Available with overall heights between 145mm and 370mm. Suitable also with 2,5% presloped, cascaded or mixed slope, to collect rainwater, in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel edges* for lateral protection.

*Also available with cast iron edges.



CONTINUOUS PRESLOPED OF 2,5%

AB150-2 **AB150-2**

Sump Unit A150B415 Outlet Diam. 315/415 mm Sump Unit A150B415 Outlet Diam. 315/415 mm

FIRST POLYMER CONCRETE CHANNEL WITH PRESLOPED OF 2,5% ON THE MARKET

- High hydraulic capacity.
- Self-cleaning effect.
- Minimum maintenance.

Channel	L (mm)	H (mm)		Width (mm)		Ø Outlet*(mm)		Hydraul. Section (cm ²)	Slope	Pcs. / Pallet
		h	H	Z	X	Vert.	Hor.			
F150B01M	500	145	145	212	150	-	-	120	-	*
F150K02	1000	145	170	206	150	-	-	155	2.5%	*
F150K03	1000	170	195	206	150	-	-	190	2.5%	*
F150K04	1000	195	220	206	150	-	-	230	2.5%	*
F150K00R	1000	220	220	206	150	-	110	230	-	45
F150K05	1000	220	245	206	150	-	-	265	2.5%	*
F150K06	1000	245	270	206	150	-	-	305	2.5%	*
F150K10R	1000	270	270	206	150	160	110	305	-	36
F150K07	1000	270	295	206	150	-	-	340	2.5%	*
F150K08	1000	295	320	206	150	-	-	380	2.5%	*
F150K20R	1000	320	320	206	150	160	160	380	-	27
F150K09	1000	320	345	206	150	-	-	410	2.5%	*
F150K10	1000	345	370	206	150	-	-	457	2.5%	*
F150K30R	1000	370	370	206	150	160	-	457	-	27

* Check Minimum Order.



AB150S-2+A150B415

SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AB150-2	500	402	212	160/200	-	1	C150
AB150S-2 + A150B415	500	918*	212	315/415	-	2	C150
AF150-2	500	402	206	160/200	-	1	C150
AF150S-2 + A150B415	500	918*	206	315/415	-	2	C150

* The Sump unit can be higher incorporating an intermediate unit.



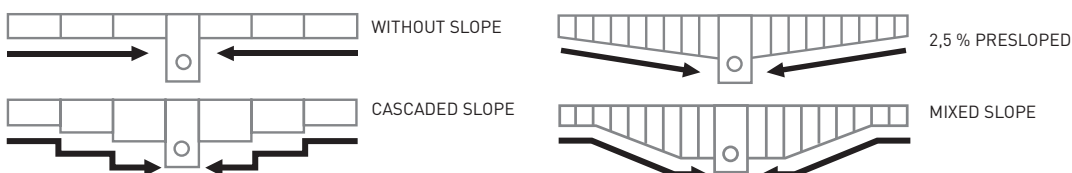
AB150-2 + FN150MFBFM

FOLDING GRATING

Material	Design	Load	Code	L.(mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	F900	FN150MFBFM	500	199	2

Sump unit available with folding grating.
Exclusive for initial module F150B01M and AB150-2 sump unit.

SLOPE DESIGNS



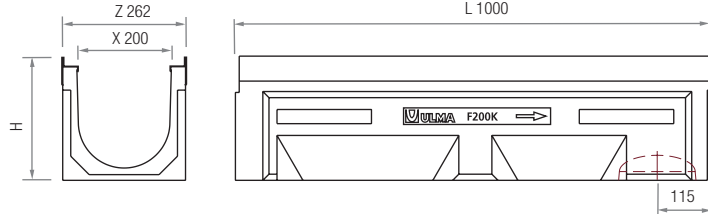
F200K

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F200K: External width 262mm; Internal width 200mm; Available with overall heights between 263mm and 363mm. Suitable for cascaded type slope to collect rainwater in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.



*Also available with cast iron edges.



Channel	L (mm)	H (mm)	Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm ²)	Pcs. / Pallet
			Z	X	Vert.	Hor.		
F200K00R	1000	263	262	200	160	-	374	28
F200K10R	1000	313	262	200	160	160	473	21
F200K20R	1000	363	262	200	160	-	571	21

*Vert. and horiz. outlets on order.

Slotted Solid



GRATINGS

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	D400	FNX200FTDM	500	251	2
	SLOTTED	E600	FNX200FTEM	500	251	2
	SLOTTED	F900	FNX200FTFM	500	251	2
	SOLID	F900	FC200FTFM	500	251	2

LOCKING SYSTEM

8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per linear metre.



SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AF200	500	363	262	160/200	-	1	-
AF200S + A200B	500	705*	262	160/200	-	2	C200

* The Sump unit can be higher incorporating an intermediate unit.

END CAPS		Closed	Open
Channel	Code	Type	Ø (mm)
F200K00R	T200K00C	CLOSED	-
	T200K00A	OPEN	200
F200K10R	T200K10C	CLOSED	-
	T200K10A	OPEN	200
F200K20R	T200K20C	CLOSED	-
	T200K20A	OPEN	200

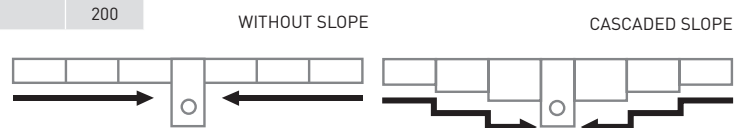
STEP UNITS
Code
CE200

GALVANIZED STEEL BUCKET *
Code
C200



*Only applicable if 2 sump units are installed.

SLOPE DESIGNS

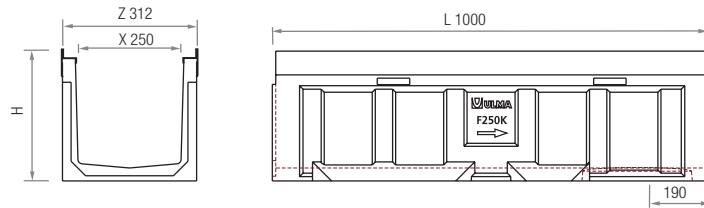


F250K

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F250K: External width 312mm; Internal width 250mm; Available with overall heights between 300mm and 450mm. Suitable for cascaded type slope to collect rainwater in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.

*Also available with cast iron edges.



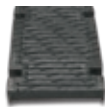
Channel	L (mm)	H (mm)	Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm ²)	Pcs. / Pallet
			Z	X	Vert.	Hor.		
F250K00R	1000	300	312	250	250	200	580	28
F250K10R	1000	350	312	250	250	200	700	28
F250K20R	1000	400	312	250	250	200	820	21
F250K30R	1000	450	312	250	-	-	935	14

*Vert. and horiz. outlets on order.

Slotted

Solid

Single Slot



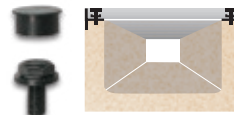
GRATINGS

Material	Design	Load	Code	L (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	C250	FNX250FTCM	500	301	2
	SLOTTED	D400	FNX250FTDM	500	301	2
	SLOTTED	F900	FNX250FTFM	500	301	2
	SOLID	F900	FC250FTFM	500	301	2
GALVANIZED STEEL	SINGLE SLOT	D400	GRL250FOD (1)	1000	301	1

(1) Without screws.

LOCKING SYSTEM

8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per linear metre.



SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AF250	500	400	312	160/200	-	1	-
AF250S + A250B	500	750*	312	160/200	-	2	C250
AF250S + A250B415	500	916	312	415	200	2	C250

* The Sump unit can be higher incorporating an intermediate unit.

END CAPS		Closed		Open	
Channel	Code	Type	Ø (mm)		
F250K00R	T250K00C	CLOSED	-		
	T250K00A	OPEN	200		
F250K10R	T250K10C	CLOSED	-		
	T250K10A	OPEN	200		
F250K20R	T250K20C	CLOSED	-		
	T250K20A	OPEN	200		
F250K30R	T250K30C	CLOSED	-		
	T250K30A	OPEN	200		

STEP UNITS	
Code	
CE250	



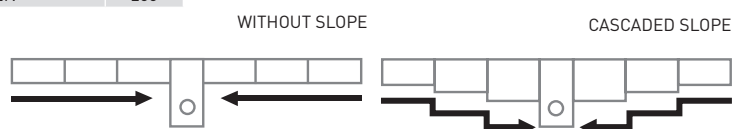
GALVANIZED STEEL BUCKET *

Code
C250



*Only applicable if 2 sump units are installed.

SLOPE DESIGNS



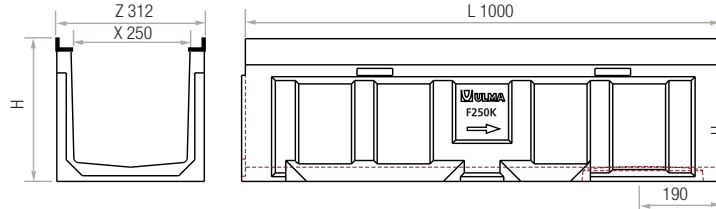
F250K SLOPE 2,5%

LOAD CLASS
UP TO F900
EN-1433 STANDARD



ULMA Linear Drainage Channel type F250K: External width 312mm; Internal width 250mm; Available with overall heights between 150mm and 650mm. Suitable also with 2,5% presloped, cascaded or mixed slope, to collect rainwater in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.

*Also available with cast iron edges.



CONTINUOUS PRESLOPED OF 2,5%

AB250S **AB250S**

F250B01M

Sump Unit A250B415
Outlet Diam. 415 mm

Sump Unit A250B415
Outlet Diam. 415 mm

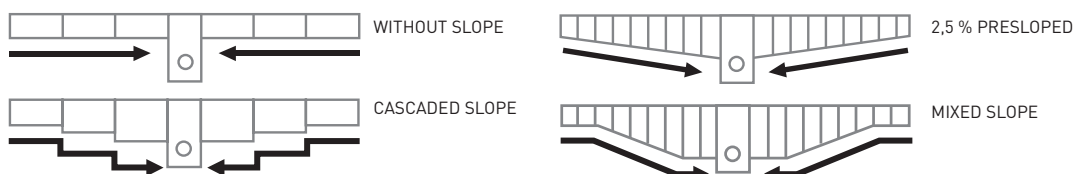
FIRST POLYMER CONCRETE CHANNEL WITH PRESLOPED OF 2,5% ON THE MARKET

- High hydraulic capacity.
- Self-cleaning effect.
- Minimum maintenance.

Channel	L (mm)	H (mm)		Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm ²)	Slope	Pcs. / Pallet
		h	H	Z	X	Vert.	Hor.			
F250B01RM	500	150	150	316	250	-	-	220	-	*
F250K01	1.000	150	175	316	250	-	-	280	2,5%	*
F250K02	1.000	175	200	312	250	-	-	340	2,5%	*
F250K03	1.000	200	225	312	250	-	-	400	2,5%	*
F250K04	1.000	225	250	312	250	-	-	460	2,5%	*
F250K05	1.000	250	275	312	250	-	-	520	2,5%	*
F250K06	1.000	275	300	312	250	-	-	580	2,5%	*
F250K00R	1.000	300	300	312	250	250	-	580	-	28
F250K07	1.000	300	325	312	250	-	-	640	2,5%	*
F250K08	1.000	325	350	312	250	-	-	700	2,5%	*
F250K10R	1.000	350	350	312	250	250	-	700	-	28
F250K09	1.000	350	375	312	250	-	-	760	2,5%	*
F250K10	1.000	375	400	312	250	-	-	820	2,5%	*
F250K20R	1.000	400	400	312	250	250	-	820	-	21
F250K11	1.000	400	425	312	250	-	-	870	2,5%	*
F250K12	1.000	425	450	312	250	-	-	930	2,5%	*
F250K30R	1.000	450	450	312	250	-	-	935	-	14
F250K13	1.000	450	475	312	250	-	-	985	2,5%	*
F250K14	1.000	475	500	312	250	-	-	1045	2,5%	*
F250K15	1.000	500	525	312	250	-	-	1100	2,5%	*
F250K16	1.000	525	550	312	250	-	-	1160	2,5%	*
F250K17	1.000	550	575	312	250	-	-	1215	2,5%	*
F250K18	1.000	575	600	312	250	-	-	1270	2,5%	*
F250K19	1.000	600	625	312	250	-	-	1320	2,5%	*
F250K20	1.000	625	650	312	250	-	-	1380	2,5%	*

* Check Minimum Order.

SLOPE DESIGNS



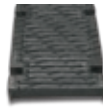
F250K

SLOPE
2,5%

LOAD CLASS
UP TO F900
EN-1433 STANDARD

Slotted

Single Slot



GRATING

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	C250	FNX250FTCM	500	301	2
	SLOTTED	D400	FNX250FTDM	500	301	2
	SLOTTED	F900	FNX250FTFM	500	301	2
GALVANIZED STEEL	SINGLE SLOT	D400	GRL250FOD (1)	1000	301	1

(1) Without screws.



AF250

AF250S + A250B

SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units
				Lateral	Front	
AF250	500	400	316	160/200	-	1
AB250	500	400	316	160/200	-	1
AF250S-65	500	680	312	415	-	1
AB250S-65	500	680	312	415	-	1
AF250S+A250B	500	750*	316	160/200	-	2
AB250S+A250B	500	750*	316	160/200	-	2
AF250S + A250B415	500	916*	316	415	200	2
AB250S+A250B415	500	916*	316	415	200	2

* The Sump unit can be higher incorporating an intermediate unit.



FN250MFBDM

FOLDING GRATING

Material	Design	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	D400	FN250MFBDM	500	301	2

Sump unit available with folding grating.
Exclusive for AB250S and AB250-65 sump unit.

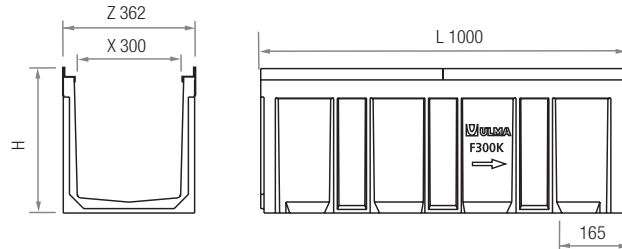


F300K

LOAD CLASS
UP TO F900
EN-1433 STANDARD

ULMA Linear Drainage Channel type F300K: External width 362mm; Internal width 300mm; Available with overall heights between 300mm and 600mm. Suitable for cascaded type slope to collect rainwater in 1 metre long units. Safe locking system consists of eight bolts per LM; Integrated galvanized steel* edges for lateral protection.

*Also available with cast iron edges.



Channel	L (mm)	H (mm)	Width (mm)		Ø Outlet* (mm)		Hydraul. Section (cm ²)	Pcs. / Pallet
			Z	X	Vert.	Hor.		
F300K00R	1000	300	362	300	250	-	725	15
F300K00R	1000	390	362	300	200	-	975	15
F300K10R	1000	440	362	300	200	-	1110	10
F300K20R	1000	490	362	300	200	-	1255	10
F300K60R	1000	600	362	300	-	-	1525	6

*Vert. outlets on order.

Slotted Solid Single Slot



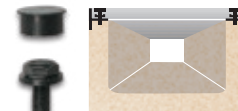
GRATINGS

Material	Desig	Load	Code	L. (mm)	Width (mm)	Units (x LM)
DUCTILE IRON	SLOTTED	D400	FNX300FTDM	500	351	2
	SLOTTED	F900	FNX300FTFM	500	351	2
	SOLID	F900	FC300FTFM	500	351	2
GALVANIZED STEEL	SINGLE SLOT	D400	GRL300FOD (1)	1000	351	1

(1) Without screws.

LOCKING SYSTEM

8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per linear metre.



SUMP UNITS AND ACCESSORIES TABLE

Code	L (mm)	H (mm)	Width (mm)	Ø Outlet (mm)		Sump Units	Bucket
				Lateral	Front		
AF300	500	390	362	200	-	1	-
AF300S + A300B	500	730*	362	200	-	2	C300

* The Sump unit can be higher incorporating an intermediate unit

END CAPS		Closed		Open	
Channel	Code	Type	Ø (mm)		
F300K00R	T300K00C	CLOSED	-		
	T300K00A	OPEN	300		
F300K10R	T300K10C	CLOSED	-		
	T300K10A	OPEN	300		
F300K20R	T300K20C	CLOSED	-		
	T300K20A	OPEN	300		

STEP UNITS

Code
CE300



GALVANIZED STEEL BUCKET*

Code
C300



*Only applicable if 2 sump units are installed.

WITHOUT SLOPE

CASCADED SLOPE



SLOPE DESIGNS

