



High capacity drainage system for the highest load category.



TECHNICAL GUIDE: DC1.7

Applications

Airports

Industrial estates

Ports

Product Attributes

High-performance drainage system

Suitable for heavy duty traffic areas up to Class F 900kN

Easy to handle and install

Three unique slot inlet designs

Approvals/Standards

Load rating as per EN 1433

Quality

ISO 9001:2008 Quality Management System

High capacity drainage system for the highest load category.

Applications

- Airports
- Industrial estates
- Container terminals
- Ports
- Motor racing circuits and test tracks

Requirements

- High hydraulic requirements
- High loads
- Large surface areas to drain

Solutions

- Drainage and retention in one component
- Large selection of nominal widths
- Less manholes and outlets
- Provides uniform visual appearance in large projects
- No separate gratings
- No expensive pipe installations required
- High hydraulic capacity
- Easy to maintain



FIG. 1 Airport Newquay, England

The benefits of RECYFIX® HICAP® F Channels



Top inlet made of high-quality ductile iron and channel body from sustainable PP

- Material: ductile iron EN GJS-500-7
- 23 times higher tensile strength and 9 times higher compressive strength as polymer concrete Various gratings
- Surface is extremely robust/ indestructible
- = Safety



Fast & easy installation

- Easy to handle and install Integrated tongue and groove joint
- Installation in one component Less pipe installations



Link & Lock facilitates the installation

Innovative linking system for ductile iron tops

Easy and quick alignment of each channel metre

= Cost savings





Individual Solutions

- Possible radial installation
- Cable and pipe installations can be laid through funnel
- Ductile Iron top on the surface can be interrupted while the channels on the underground continue
- = Flexibility



- Designed for extreme conditions, especially for applications in heavy road traffic up to class F 900kN
- = Flexibility



Various gratings, also available with KTL coating for extra corrosion protection

Uniform design also in different

Wide range

= Flexibility

nominal widths

Channel body made from

- Material from 100 % recycled PP
- Very light and unbreakable material
- = Security



Various Connecting Possibilities

- End cap with storm water system connection option
- Simple corner and T-connections End cap adapter for connecting the next nominal width
- Various options for pipe connections exists on the channel
- = Flexibility



Large retention volume

- Drainage and retention in one component
- High capacity and back-pressure capacity due to a variety of sizes Fewer trash boxes and pipe
- connections required
- = Flexibility/Security

Components

Load Classes

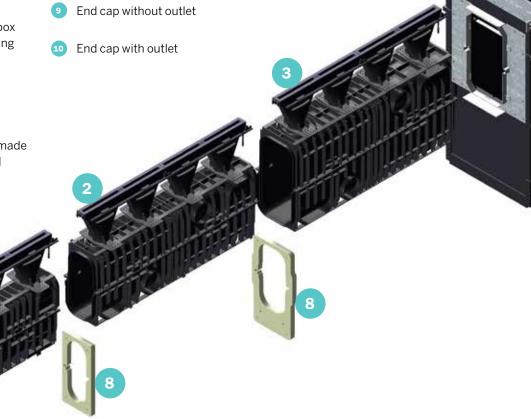
European Standard EN 1433

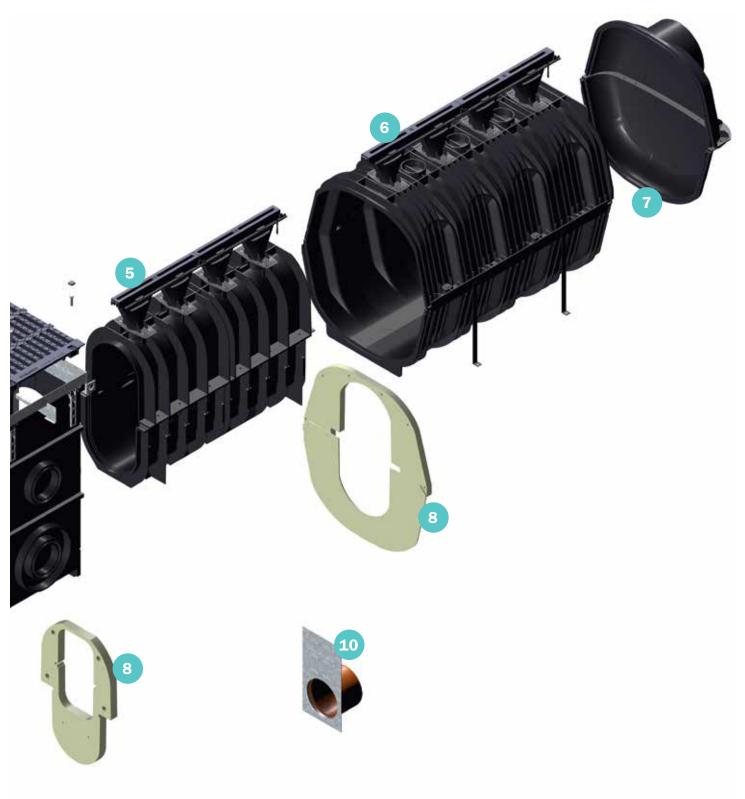


Load Class F 900kN Approximate Wheel Load 30,000kg

- 1 RECYFIX® HICAP® F 1000 made of PP with inlet adaptor and integrated ductile iron top
- 2 RECYFIX® HICAP® F 3000 made of PP with inlet adaptor and integrated ductile iron top
- 3 RECYFIX® HICAP® F 5000 made of PP with inlet adaptor and integrated ductile iron top
- 4 RECYFIX® HICAP® F Trash box with galvanised angle housing and ductile iron grating with SIDE-LOCK for flexible connection of different nominal sizes
- 5 RECYFIX® HICAP® F 8000 made of PP with inlet adaptor and integrated ductile iron top

- 6 RECYFIX® HICAP® F 10000 made of PP with inlet adaptor and integrated ductile iron top
- 7 End cap 10000 with pipe connection possibility
- Step fall connector for transition between each step in channel size





Class F 900kN





FIG. 2

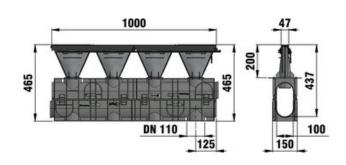




FIG. 3

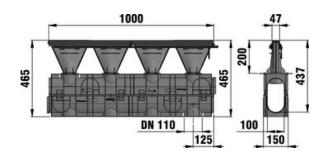
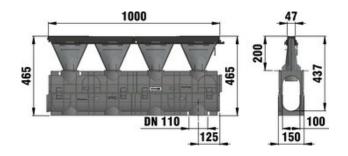




FIG. 4



TARLE 1	RECYFIX® HICAP® F 1200 F 900kN
IADELI	NECTIA THOAT I 12001 JOOKIN

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402300	Channel HICAP F 1200 DI Mesh 13 x 28mm	172	184	10.8	2
CHH01402303	Channel HICAP F 1200 DI Slotted 28mm	248	184	9.9	3
CHH01402306	Channel HICAP F 1200 DI Slotted 14mm	124	184	10.8	4

 $\textbf{Note:} \ Standard \ funnel\ height \ is \ 200mm, \ also \ available \ in \ 300mm \ on \ request.$

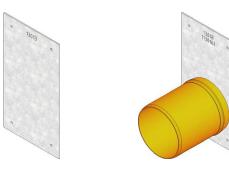


FIG. 5 FIG. 6

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TABLE 2	RECYFIX® HICAP® F 1000 F 900kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01402309	End Cap HICAP F 1000mm Galv Blank	-	140	250	5
CHH01402312	End Cap HICAP F 1000mm Galv with 100mm PVC Outlet	-	140	250	6

Class F 900kN





FIG. 7

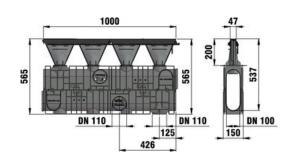
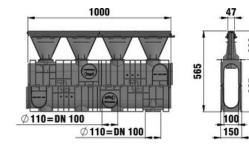
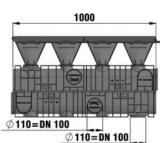
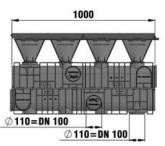




FIG. 8







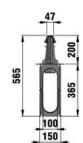


FIG. 9

TABLE 3 RECYFIX® HICAP® F 2200 F 900kN

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402315	Channel HICAP F 2200 DI Mesh 13 x 28mm	172	284	13.2	7
CHH01402318	Channel HICAP F 2200 DI Slotted 28mm	248	284	11.2	8
CHH01402321	Channel HICAP F 2200 DI Slotted 14mm	124	284	11.6	9

Note: Standard funnel height is 200mm, also available in 300mm on request.

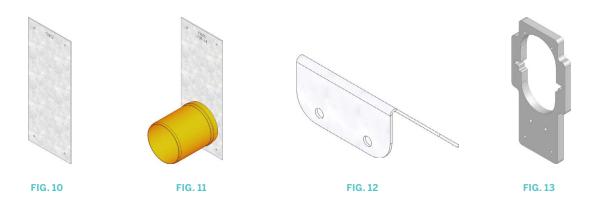


TABLE 4 RECYFIX® HICAP® F 2000 F 900kN Accessories

Code	Description	Length Width He		Height	Figure #
	·	mm	mm	mm	-
CHH01402324	End Cap HICAP F 2000mm Galv Blank	-	140	350	10
CHH01402327	End Cap HICAP F 2000mm Galv with 100mm PVC Outlet	-	140	350	11
CHH01402330	Step-Fall Ramp HICAP F 2000-1000 Galv	99	97	95	12
CHH01402333	Step-Fall Connector HICAP F 2000-1000 Galv	-	180	245	13

Class F 900kN





FIG. 14

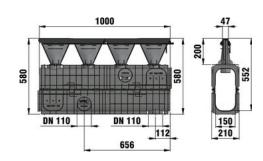




FIG. 15

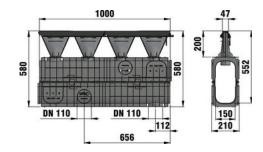




FIG. 16

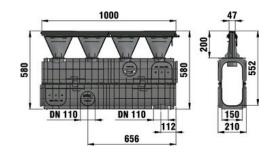


TABLE 5 RECYFIX® HICAP® F 3200 F 900kN

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402336	Channel HICAP F 3200 DI Mesh 13 x 28mm	172	460	12.4	14
CHH01402339	Channel HICAP F 3200 DI Slotted 28mm	248	460	11.3	15
CHH01402342	Channel HICAP F 3200 DI Slotted 14mm	124	460	12.0	16

 $\textbf{Note:} \ Standard \ funnel\ height \ is \ 200mm, \ also \ available \ in \ 300mm \ on \ request.$







FIG. 17

FIG. 18

FIG. 19

TABLE 6 RECYFIX® HICAP® F 3000 F 900kN Accessories

Code	Description	Length mm	Width mm	Heigh mm	Figure #
CHH01402345	End Cap HICAP F 3000mm Galv Blank	-	190	370	17
CHH01402348	End Cap HICAP F 3000mm Galv with 150mm PVC Outlet	-	190	370	18
CHH01402351	Step-Fall Connector HICAP F 3000-2000 Galv	-	180	345	19

Class F 900kN





FIG. 20

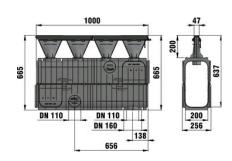




FIG. 21

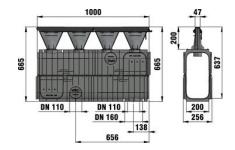




FIG. 22

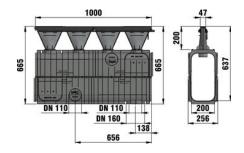


TABLE 7	RECYFIX® HICAP® F 5200 F 900kN
IADLE /	RECTEIN THOAP F 3200 F 900KIN

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402354	Channel HICAP F 5200 DI Mesh 13 x 28mm	172	790	13.9	20
CHH01402357	Channel HICAP F 5200 DI Slotted 28mm	248	790	12.7	21
CHH01402360	Channel HICAP F 5200 DI Slotted 14mm	124	790	13.5	22

 $\textbf{Note:} \ Standard \ funnel\ height \ is \ 200mm, \ also \ available \ in \ 300mm \ on \ request.$



TABLE 8 RECYFIX® HICAP® F 5000 F 900kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01402363	End Cap HICAP F 5000mm Galv Blank	-	240	450	23
CHH01402366	End Cap HICAP F 5000mm Galv with 175mm PVC Outlet	-	240	450	24
CHH01402369	Step-Fall Ramp HICAP F 5000-3000 Galv	84	197	80	25
CHH01402372	Step-Fall Connector HICAP F 5000-3000 Galv	-	250	462	26

Class F 900kN





FIG. 27

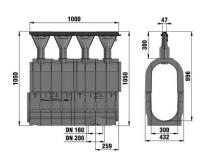




FIG. 28

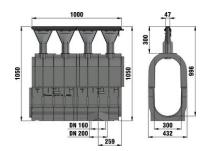
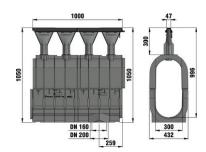




FIG. 29



TABLEO	RECYFIX® HICAP® F 8300 F 900kN	
IADLE 9	RECTFIA" DICAP" F 6300 F 900KIN	

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402375	Channel HICAP F 8300 DI Mesh 13 x 28mm	172	1714	24.1	27
CHH01402378	Channel HICAP F 8300 DI Slotted 28mm	248	1714	22.3	28
CHH01402381	Channel HICAP F 8300 DI Slotted 14mm	124	1714	23.8	29

Note: Standard funnel height is 300mm.

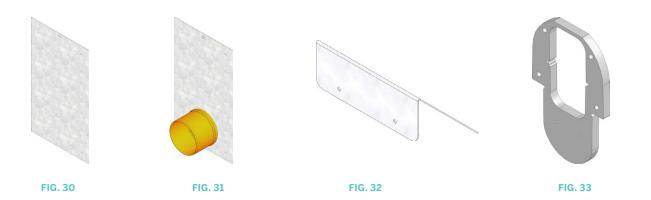


TABLE 10 RECYFIX® HICAP® F 8000 F 900kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01402384	End Cap HICAP F 8000mm Galv Blank	-	420	720	30
CHH01402387	End Cap HICAP F 8000mm Galv 175 PVC Outlet	-	420	734	31
CHH01402390	Step-Fall Ramp HICAP F 8000-5000 Galv	258	291	254	32
CHH01402393	Step-Fall Connector HICAP F 8000-5000 Galv	-	432	693	33

Class F 900kN





FIG. 34

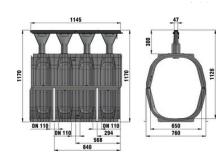




FIG. 35

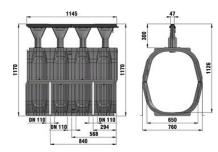




FIG. 36

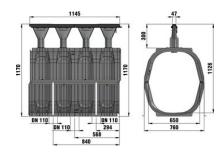


TABLE 11 RECYFIX® HICAP® F 10300 F 900kN

Code	Description	Intake cross-sect cm²/m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402396	Channel HICAP F 10300 DI Mesh 13 x 28mm	172	4430	31.2	34
CHH01402399	Channel HICAP F 10300 DI Slotted 28mm	248	4430	31.2	35
CHH01402402	Channel HICAP F 10300 DI Slotted 14mm	124	4430	32.2	36

Note: Standard funnel height is 300mm.

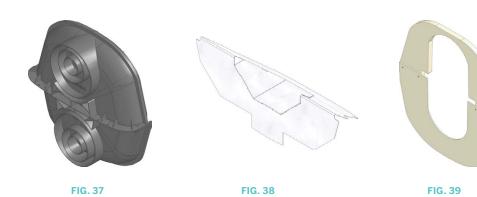


TABLE 12 RECYFIX® HICAP® F 10000 F 900kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01402405	End Cap HICAP F 10000 Connector Outlet	-	803	822	37
CHH01402408	Step-Fall Ramp HICAP F 10000-8000 Galv	280	686	255	38
CHH01402411	Step-Fall Connector HICAP F 10000-8000 Galv	-	759	846	39

RECYFIX® HICAP® F Trash Boxes

Class E 600kN





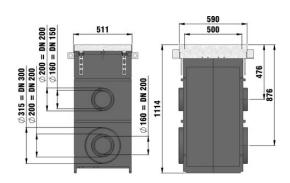


FIG. 40

FIG. 41



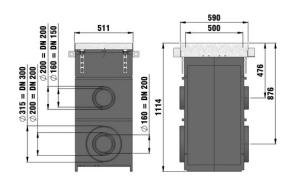


FIG. 42

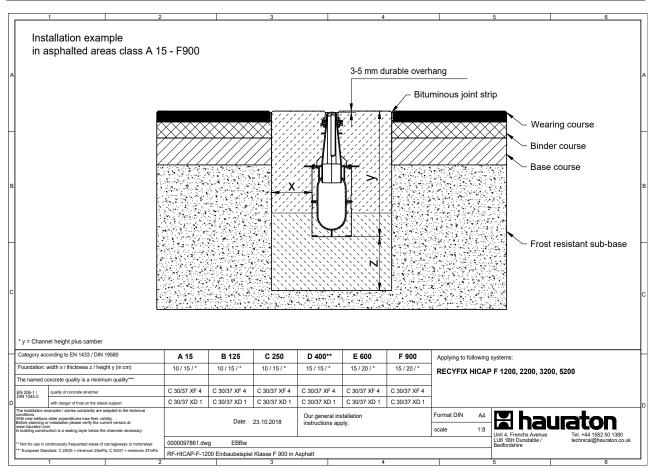
FIG. 43

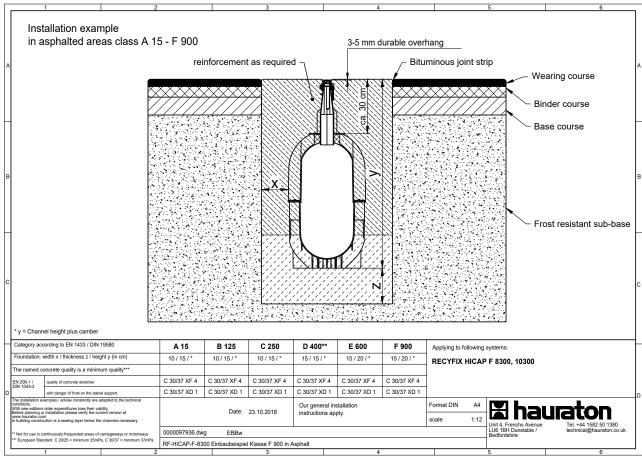
TABLE 13 RECYFIX® HICAP® E 600kN Trash Boxes

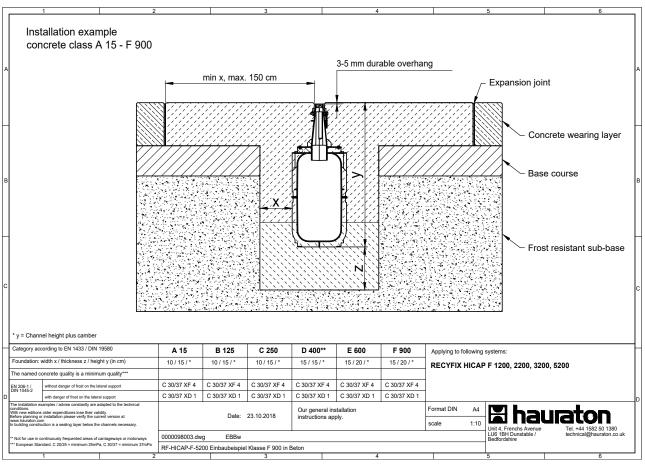
Code	Description	Length	Width	Height	Figure #
		mm	mm	mm	
CHH01402414	Trash Box HICAP F DI Slotted 140 x 20mm	511	590	1114	40 & 41
CHH01402417	Trash Box HICAP F DI Solid Cover	511	590	1114	42 & 43
CHH01402420	Trash Box Connector HICAP F 1000	-	-	-	-
CHH01402423	Trash Box Connector HICAP F 2000	-	-	-	-
CHH01402426	Trash Box Connector HICAP F 3000	-	-	-	-
CHH01402429	Trash Box Connector HICAP F 5000	-	-	-	-
CHH01402432	Trash Box Connector HICAP F 8000	-	-	-	-
CHH01402405	*End Cap HICAP F 10000 Connector Outlet	-	803	822	37

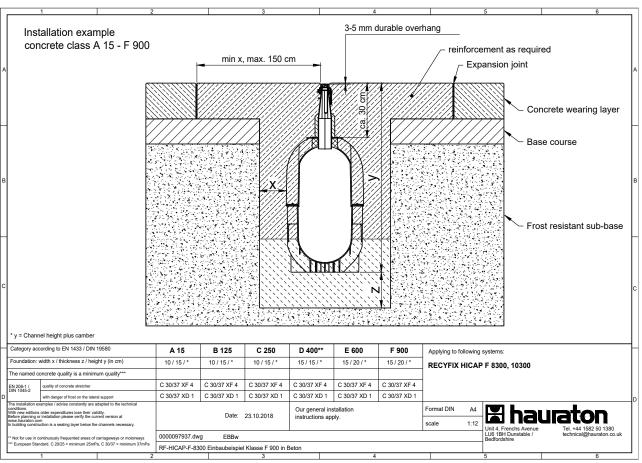
 $\textbf{Note:} \ \textit{CHH01402405} \ \textit{is also used as a Trash Box Connector for HICAP F 10000}$

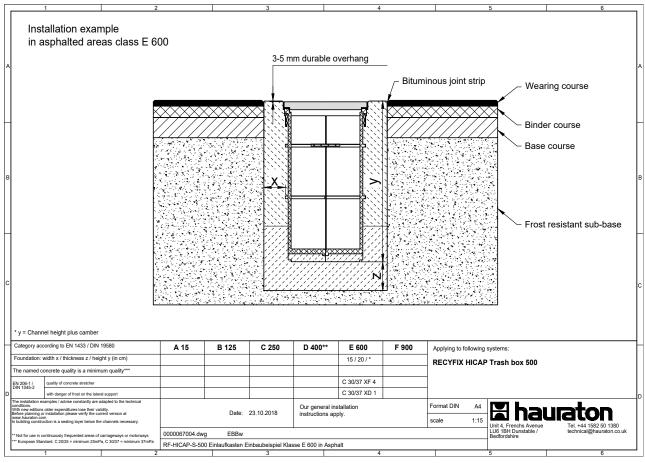
Installation Guidelines

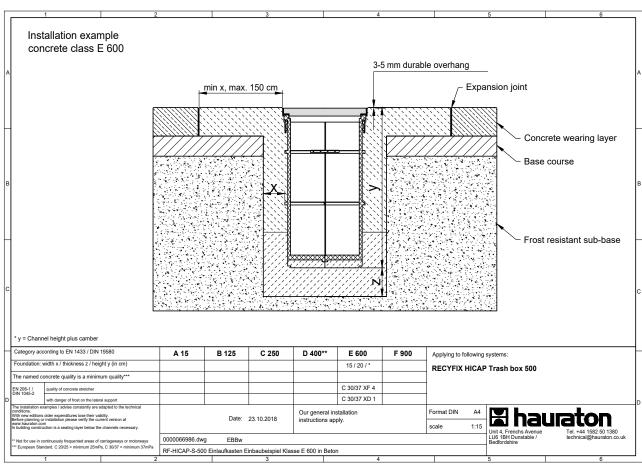












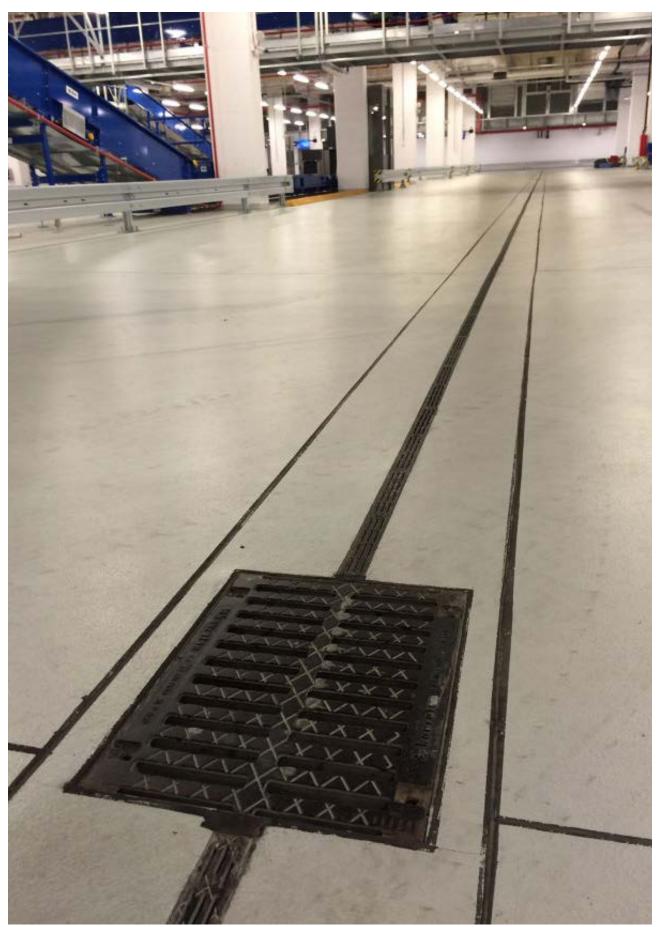


FIG. 44 Balice Airport, Poland

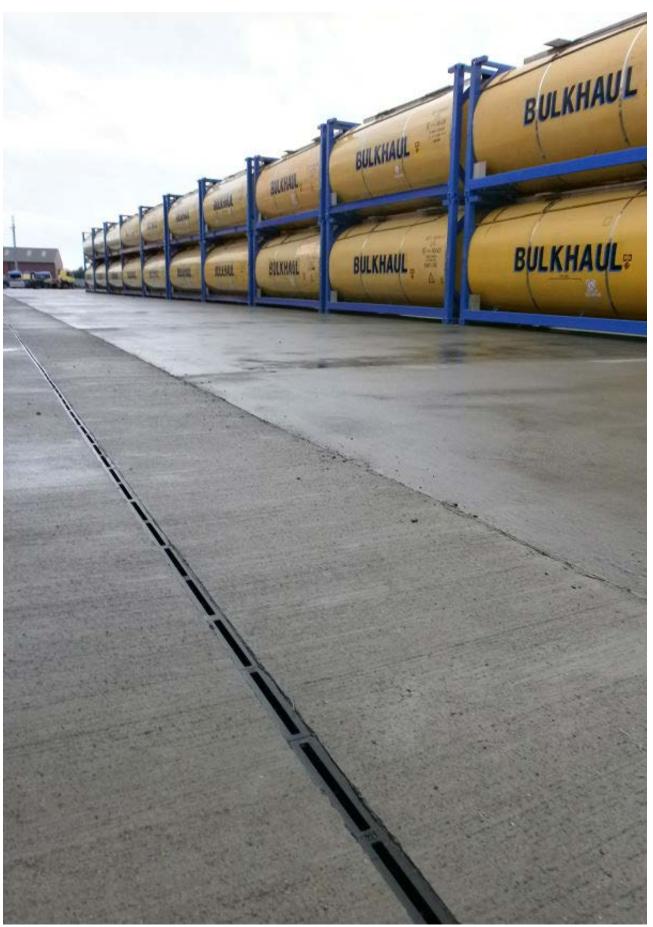


FIG. 45 Middlesbrough - Teesside Bulkhaul Container Yard, UK



Scan for more information

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