



WIEDEMANN-TECHNIK

Quality in stainless steel

Floor Drains



Floor Drains

WIEDEMANN has been making stainless steel floor drains for over 70 years. Already in the 1940s WIEDEMANN was developing, producing and installing cast metal drain intakes for dairies.

We have used this experience to further develop our floor drains, adapting them to meet the ever-increasing requirements. Our focus is, and always has been, on the hygienic needs of the food processing, pharmaceutical and chemical industries. Due to the material stainless steel our floor drains are particularly hygienic, durable and highly corrosion-resistant.

High strength and a nevertheless relatively low weight make for an optimal product for use in the:

- Beverage industry
- Meat industry
- Foodstuffs industry
- Dairy industry
- Chemical and pharmaceutical industry
- Canteen kitchen

WIEDE
TECH



WIEDEMANN ensures the highest standards of quality by testing materials and finished products with modern methods and equipment. In addition, our processes are monitored by external, independent organisations, certifying our quality systems.

CERTIFICATIONS

- Specialized company according to the Water Resources Act
- Welding specialist company according to DIN EN ISO 3834-2 and DIN EN 1090-2 EXC2
- External monitoring of floor drains according to EN 1253 by TÜV Rheinland LGA
- External monitoring of fire protection doors according to DIN 4102, EN 1634 by MPA Braunschweig and MPA NRW
- Certified according to DIN EN ISO 9001 by IFU-Cert
- Certified drainage system by the Fraunhofer Institute according to EHEDG guidelines
- Floor drain with fire protection according to ABPP 3459/4006-MPA-BS

We are a member of the EHEDG (European Hygienic Engineering & Design Group).



HIGHEST DEGREE OF STRENGTH

Floor drains for tiled or resin floor coverings

WIEDEMANN floor drains are available with square inlet rims for tiled floors or with round inlet rims for synthetic resin flooring on acryl-, epoxy resin- or polyurethane.

Whether square or round – the surrounds of both variants have been made of solid stainless steel to provide maximum strength and can therefore easily withstand heavy loads.

A sharp-edged transition to the adjoining jointing, grouting of flooring material prevents separation or cracks in the material. This prevents the accumulation of bacteria in cracks or joints, and optimum hygiene is ensured.



RANGE OF SERVICES



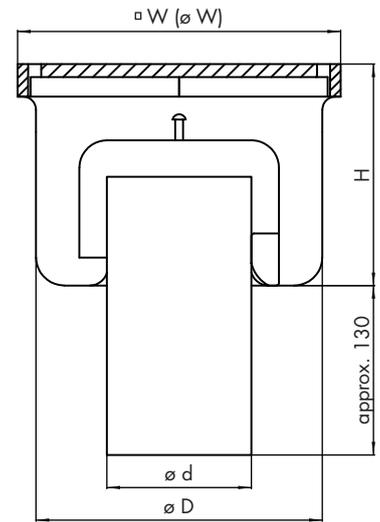
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1.10 INDUSTRIAL – FLOOR DRAINS

DR-S/DRK-S

one part/vertical



DR-S/DRK-S

Floor drain with air trap (without sealing ring – maintenance free), consisting of bell and welded standpipe, without filter basket

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Flow rate [l/s]
DRK-070-E-S	70	75	201	–	183	175	1.5
DRK-070-RD-S	70	75	–	235	183	175	1.5
DR-100-E-S	100	110	246	–	218	170	2.8
DR-100-RD-S	100	110	–	270	218	170	2.8
DR-150-E-S	150	160	310	–	283	180	8.2
DR-150-RD-S	150	160	–	331	283	180	8.2
DR-200-E-S	200	200	410	–	356	225	12.5
DR-200-RD-S	200	200	–	410	356	225	12.5
DR-250-E-S	250	250	537	–	483	275	16.5
DR-250-RD-S	250	250	–	537	483	275	16.5

COVER VARIANTS



SR – BAR GRATE²
fully welded with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant (R11–R13)



FS – TILE SHELL²
sheet metal to accommodate coatings or tiles



TRKN – FUNNEL CONICAL²
as splash protection for the introduction of supply lines



P – PLATE²
side inlet slot



B – SHEET METAL²
also in individual versions

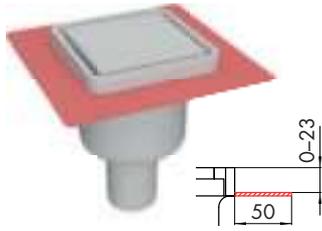


PRD – PLATE²
with rolling sealing ring, until DN150



TRZN – FUNNEL CYLINDRICAL²
with integrated air trap to increase the flow rate up to 45 liters/second

STAINLESS STEEL FLANGE VARIANTS



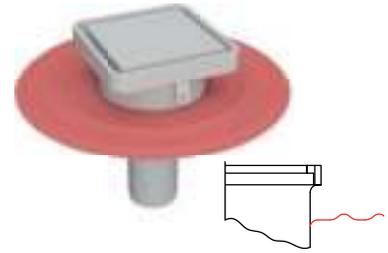
HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



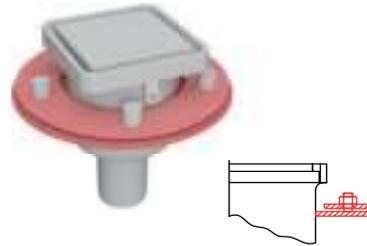
KBF, ADHESIVE FLANGE⁴

according to EN 1253, with/without soakage pits



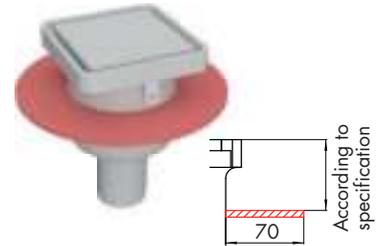
KMF, ADHESIVE- AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without soakage pits



FDIN, WITH CLAMPING FLANGE⁴

two part, according to DIN 18531-18535, with/without soakage pits



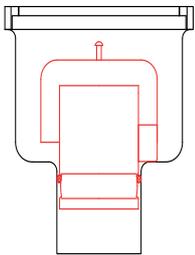
TGF, SUPPORT FLANGE⁴

standard width 70 mm
T = 6,0 mm

DR-S/DRK-S

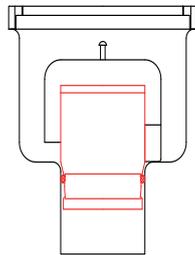
1.10

SUPPLEMENTARY EQUIPMENT



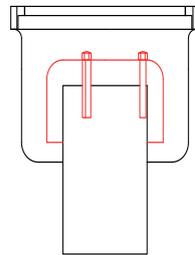
GVS - AIR TRAP⁵

one part with sealing ring, pluggable for residual discharge



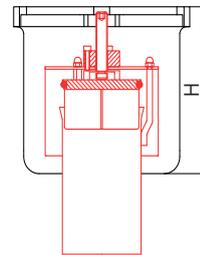
GVSZ - AIR TRAP⁵

two part with sealing ring, removable bell, pluggable for residual discharge



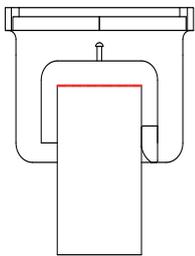
GVV - AIR TRAP⁵

bolted



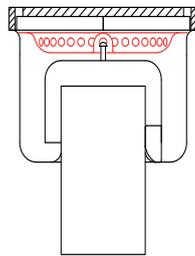
AS - AIR TRAP⁵

lockable, backpressure-tight according EN 1253-4, class Bt

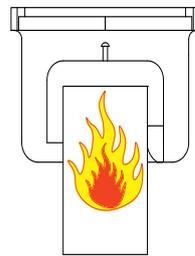


SB - OUTLET FILTER⁶

optional:
bolted, pluggable or welded-in



FK - FLAT FILTER BASKET⁶



BS - FIRE PROTECTION

see pages 52-54

MODEL	H [mm]
DRKAS-070	190
DRAS-100	210
DRAS-150	250

² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

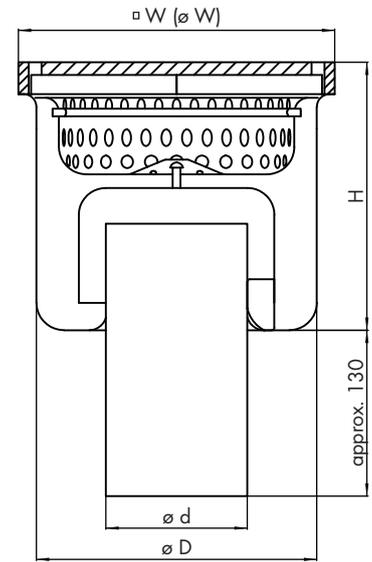
TENDER TEXT

Tender texts for our floor drains are available on our website and at Heinze.de. We are also happy to create individual text templates for your projects.

1.20 INDUSTRIAL – FLOOR DRAINS

DRS-S/DRSK-S

one part/vertical



DRS-S/DRSK-S

Floor drain with air trap (without sealing ring – maintenance free), consisting of bell and welded standpipe, with filter basket

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
DRSK-070-E-S	70	75	201	–	183	175	0.65	1.5
DRSK-070-RD-S	70	75	–	235	183	175	0.65	1.5
DRS-100-E-S	100	110	246	–	218	210	1.5	2.8
DRS-100-RD-S	100	110	–	270	218	210	1.5	2.8
DRSK-100-E-S	100	110	201	–	183	175	0.65	2.8
DRSK-100-RD-S	100	110	–	235	183	175	0.65	2.8
DRS-150-E-S	150	160	310	–	283	250	2.75	8.2
DRS-150-RD-S	150	160	–	331	283	250	2.75	8.2
DRS-200-E-S	200	200	410	–	356	315	6.0	12.5
DRS-200-RD-S	200	200	–	410	356	315	6.0	12.5
DRS-250-E-S	250	250	537	–	483	400	13.5	18.5
DRS-250-RD-S	250	250	–	537	483	400	13.5	18.5

COVER VARIANTS



SR – BAR GRATE²
fully welded with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant (R11–R13)



FS – TILE SHELL²
sheet metal to accommodate coatings or tiles



TRKN – FUNNEL CONICAL²
as splash protection for the introduction of supply lines



P – PLATE²
side inlet slot



B – SHEET METAL²
also in individual versions

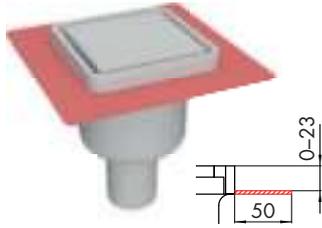


PRD – PLATE²
with rolling sealing ring, until DN150



TRZN – FUNNEL CYLINDRICAL²
with integrated air trap to increase the flow rate up to 45 liters/second

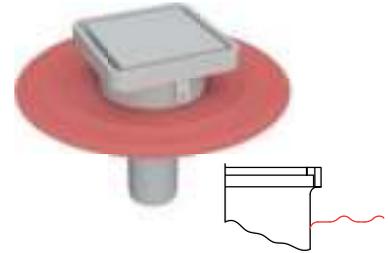
STAINLESS STEEL FLANGE VARIANTS



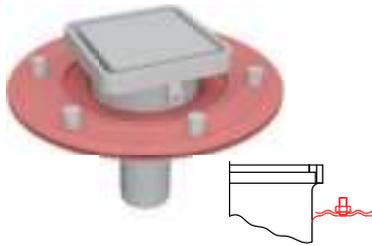
HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



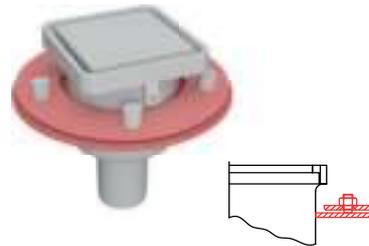
HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



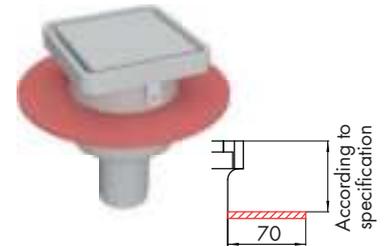
KBF, ADHESIVE FLANGE⁴
according to EN 1253, with/without soakage pits



KMF, ADHESIVE - AND CLAMPING FLANGE⁴
two part, according to EN 1253, with/without soakage pits

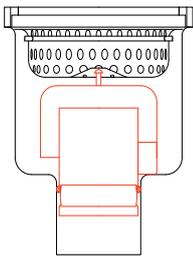


FDIN, WITH CLAMPING FLANGE⁴
two part, according to DIN 18531-18535, with/without soakage pits

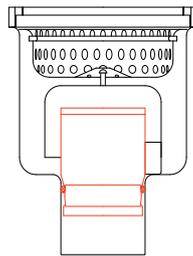


TGF, SUPPORT FLANGE⁴
standard width 70 mm
T = 6.0 mm

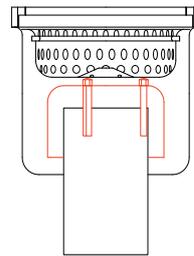
SUPPLEMENTARY EQUIPMENT



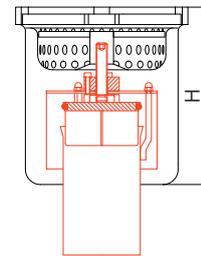
GVS - AIR TRAP⁵
one part with sealing ring, pluggable for residual discharge



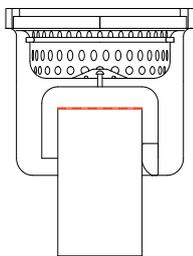
GVSZ - AIR TRAP⁵
two part with sealing ring, removable bell, pluggable for residual discharge



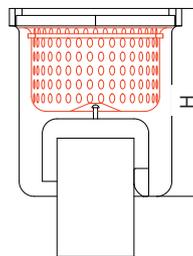
GVV - AIR TRAP⁵
bolted



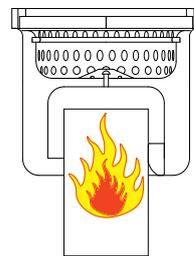
AS - AIR TRAP⁵
lockable, backpressure-tight according EN 1253-4, class Bt



SB - OUTLET FILTER⁶
optional:
bolted, pluggable or welded-in



SFH - FILTER BASKET⁶
with increased volume



BS - FIRE PROTECTION
see pages 52-54

MODEL	H [mm]
DRSKAS-070	215
DRSKAS-100	235
DRSAS-100	255
DRSAS-150	284

MODEL	H [mm]	Vol. [l]
DRSK-070	255	2.0
DRSK-100	255	2.0
DRS-100	270	2.8
DRS-150	305	5.2

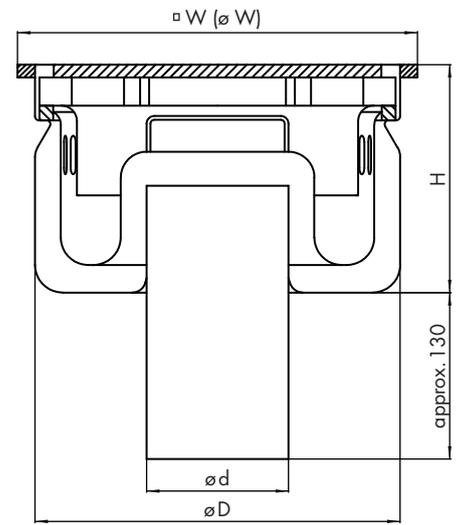
TENDER TEXT

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² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

71-S

one part/vertical



71-S

Floor drain with combined filter basket and air trap (without sealing ring – maintenance free), with welded standpipe

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
71-070-E-S	70	75	310	–	243	163	3.5	1.5
71-070-RD-S	70	75	–	296	243	163	3.5	1.5
71-100-E-S	100	110	310	–	283	178	4	2.8
71-100-RD-S	100	110	–	296	283	178	4	2.8
71-150-E-S	150	160	390	–	356	198	6	8.2
71-150-RD-S	150	160	–	369	356	198	6	8.2
71-200-E-S	200	200	520	–	483	233	12	12.5
71-200-RD-S	200	200	–	499	483	233	12	12.5

COVER VARIANTS



SR – BAR GRATE²
fully welded with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant (R11–R13)



P – PLATE²
side inlet slot



PRD – PLATE²
with rolling sealing ring, until DN100



TRKN – FUNNEL CONICAL²
as splash protection for the introduction of supply lines



TRZN – FUNNEL CYLINDRICAL²
with integrated air trap to increase the flow rate up to 45 liters/second

STAINLESS STEEL FLANGE VARIANTS



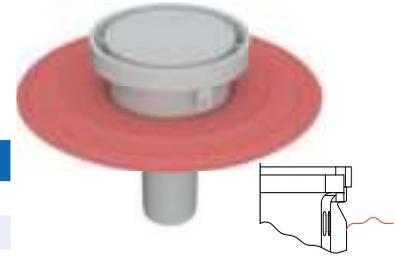
VARIANTS	H1 [mm]
square	0-10
round	0-22

HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

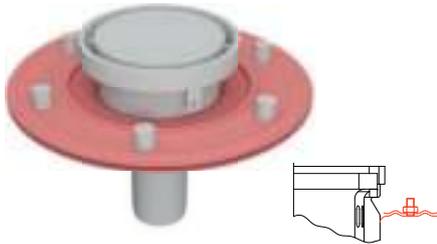


VARIANTS	H1 [mm]
square	0-10
round	0-22

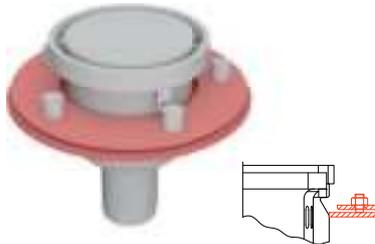
HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



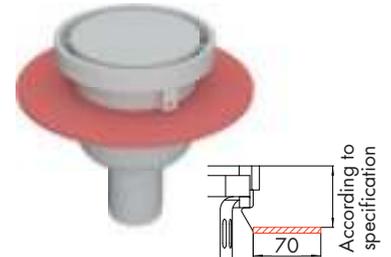
KBF, ADHESIVE FLANGE⁴
according to EN 1253, with/without soakage pits



KMF, ADHESIVE- AND CLAMPING FLANGE⁴
two part, according to EN 1253, with/without soakage pits

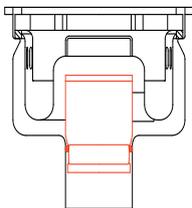


FDIN, WITH CLAMPING FLANGE⁴
two part, according to DIN 18531-18535, with/without soakage pits

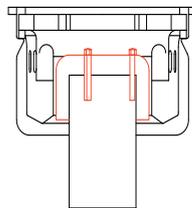


TGF, SUPPORT FLANGE⁴
standard width 70 mm
T = 6.0 mm

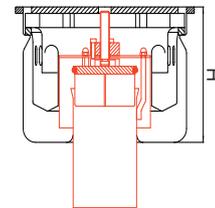
SUPPLEMENTARY EQUIPMENT



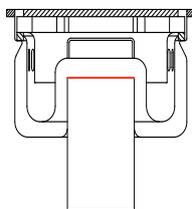
GVSZ - AIR TRAP⁵
two part with sealing ring, removable bell, pluggable for residual discharge



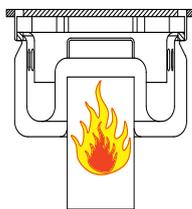
GVV - AIR TRAP⁵
bolted



AS - AIR TRAP⁵
lockable, backpressure-tight according EN 1253-4, class Bt



SB - OUTLET FILTER⁶
optional:
bolted, pluggable or welded-in



BS - FIRE PROTECTION
see pages 52-54

MODEL	H [mm]
71AS-070	188
71AS-100	210
71AS-150	235
71AS-200	288

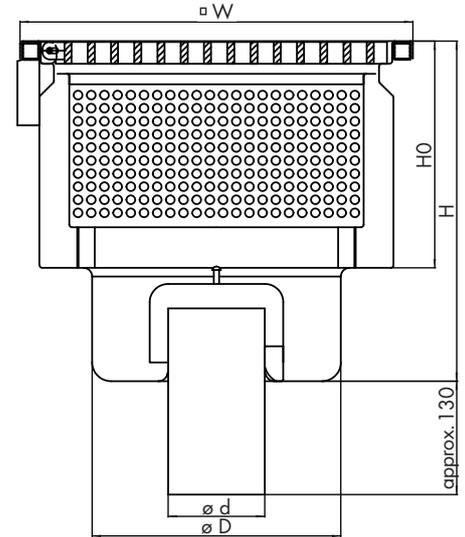
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¹⁴ customized version (not DIN-compliant)

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75-S

one part/vertical



75-S

Floor drain with high capacity waste basket, a hinged and secured against removal bar grate cover, air trap (without sealing ring – maintenance free), consisting of bell and welded standpipe

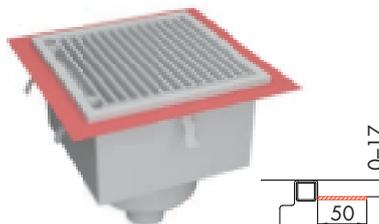
INLET RIM	GRADE
square	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	∅ W [mm]	Ø D [mm]	HO [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
75-400-100-E-S	100	110	447	283	260	400	19	2.8
75-400-150-E-S	150	160	447	283	260	400	19	8.2
75-600-200-E-S	200	200	647	356	260	400	49	12.5

COVER VARIANTS | STAINLESS STEEL FLANGE VARIANTS



SR – BAR GRATE²
fully welded with the frame bar,
hinged or removable

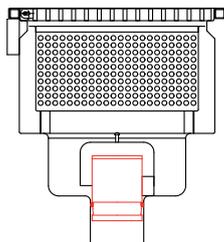


HFA, BONDING FLANGE⁴
for connection to floor coverings
and sealing liquid-tight welded
to the floor drain

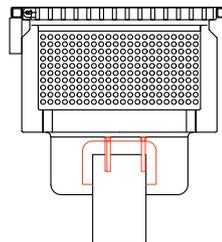


HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings
and sealing liquid-tight welded
to the floor drain

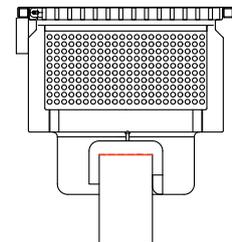
SUPPLEMENTARY EQUIPMENT



GVSZ – AIR TRAP⁵
two part with sealing ring, removable
bell, pluggable for residual discharge



GVV – AIR TRAP⁵
bolted



SB – OUTLET FILTER⁶
optional: bolted, pluggable or
welded-in

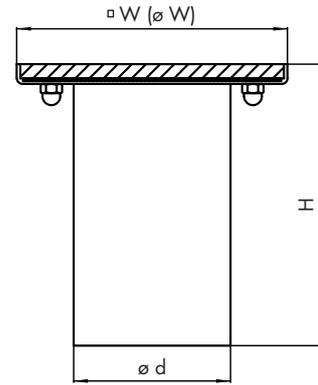
² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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REV-S

one part/vertical



INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

REV-S
Inspection opening one part, bolted plate cover odor- and watertight version with flat gasket, without air trap

MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	H [mm]
REV-100-E-S	100	110	190	-	199
REV-100-RD-S	100	110	-	218	199
REV-125-E-S	125	125	190	-	204
REV-125-RD-S	125	125	-	218	204
REV-150-E-S	150	160	190	-	208
REV-150-RD-S	150	160	-	218	208

COVER VARIANTS



PV - PLATE BOLTED²
M125,
tightly closing



FS - TILE SHELL BOLTED²
sheet metal
to accommodate coatings
or tiles

² load classes and other variants see page 44/45

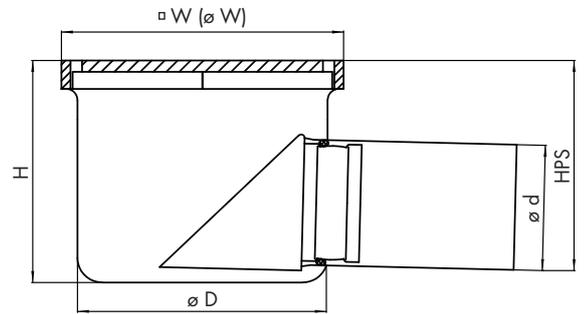
TENDER TEXT

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DR-W/DRK-W

one part/horizontal



INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

DR-W/DRK-W
Floor drain, pluggable air trap
with sealing ring, without filter basket

MODEL	DN	$\varnothing d$ [mm]	$\varnothing W$ [mm]	$\varnothing W$ [mm]	$\varnothing D$ [mm]	H [mm]	HPS [mm]	Flow rate [l/s]
DRK-070-E-W	70	75	201	–	183	185	166	1.5
DRK-070-RD-W	70	75	–	235	183	185	166	1.5
DR-100-E-W	100	110	246	–	218	195	184	2.8
DR-100-RD-W	100	110	–	270	218	195	184	2.8
DR-150-E-W	150	160	310	–	283	237	221	8.2
DR-150-RD-W	150	160	–	331	283	237	221	8.2
DR-200-E-W	200	200	410	–	356	419	303	12.5
DR-200-RD-W	200	200	–	410	356	419	303	12.5

COVER VARIANTS



SR – BAR GRATE²
fully welded
with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant
(R11–R13)



FS – TILE SHELL²
sheet metal to accommodate
coatings or tiles



TRKN – FUNNEL CONICAL²
as splash protection for the
introduction of supply lines



P – PLATE²
side inlet slot

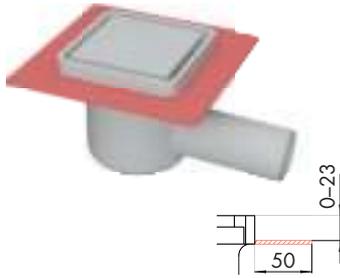


B – SHEET METAL²
also in individual
versions



PRD – PLATE²
with rolling sealing ring,
until DN 150

STAINLESS STEEL FLANGE VARIANTS



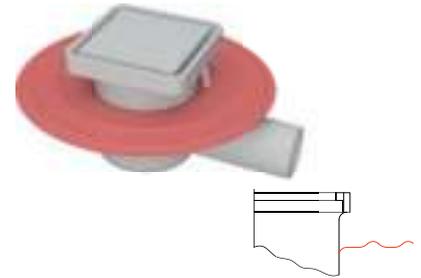
HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



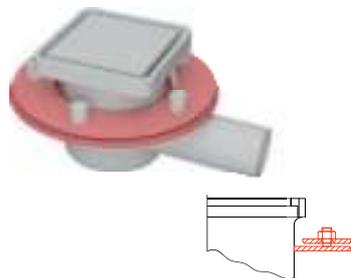
KBF, ADHESIVE FLANGE⁴

according to EN 1253, with/without soakage pits



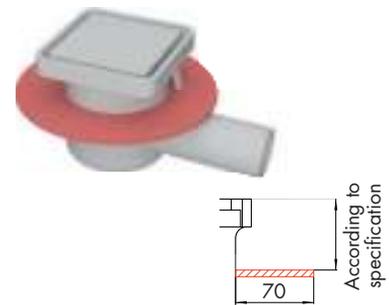
KMF, ADHESIVE- AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without soakage pits



FDIN, WITH CLAMPING FLANGE⁴

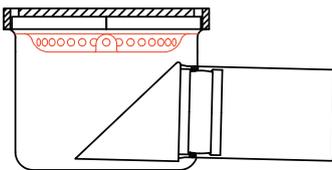
two part, according to DIN 18531-18535, with/without soakage pits



TGF, SUPPORT FLANGE⁴

standard width 70 mm
T = 6.0 mm

SUPPLEMENTARY EQUIPMENT



FK - FLAT FILTER BASKET⁶

² load classes and other variants see page 44/45

⁴ flanges, details see page 50/51

⁶ filter baskets, details see page 48

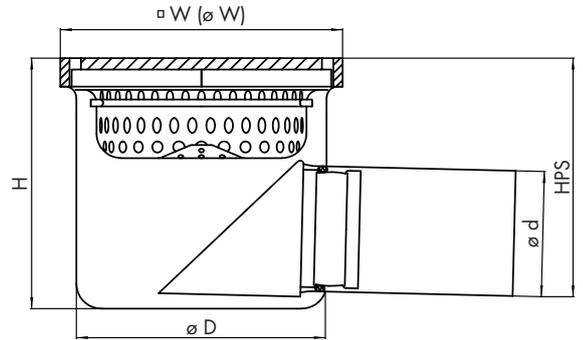
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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DRS-W/DRSK-W

one part/horizontal



INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

DRS-W/DRSK-W
Floor drain, pluggable air trap
with sealing ring, with filter basket

MODEL	DN	Ø d [mm]	∅ W [mm]	∅ W [mm]	Ø D [mm]	H [mm]	HPS [mm]	Filter basket volume [l]	Flow rate [l/s]
DRSK-070-E-W	70	75	201	-	183	185	166	0.65	1.5
DRSK-070-RD-W	70	75	-	235	183	185	166	0.65	1.5
DRS-100-E-W	100	110	246	-	218	220	209	1.5	2.8
DRS-100-RD-W	100	110	-	270	218	220	209	1.5	2.8
DRSK-100-E-W	100	110	201	-	183	210	185	0.65	2.8
DRSK-100-RD-W	100	110	-	235	183	210	185	0.65	2.8
DRS-150-E-W	150	160	310	-	283	290	274	2.75	8.2
DRS-150-RD-W	150	160	-	331	283	290	274	2.75	8.2
DRS-200-E-W	200	200	410	-	356	541	425	6.0	12.5
DRS-200-RD-W	200	200	-	410	356	541	425	6.0	12.5

COVER VARIANTS



SR - BAR GRATE²
fully welded
with the frame bar



GR - MESH GRATING²
smooth (R10) or slip-resistant
(R11-R13)



FS - TILE SHELL²
sheet metal to accommodate
coatings or tiles



TRKN - FUNNEL CONICAL²
as splash protection for the
introduction of supply lines



P - PLATE²
side inlet slot

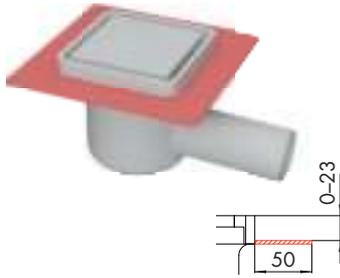


B - SHEET METAL²
also in individual
versions



PRD - PLATE²
with rolling sealing ring,
until DN150

STAINLESS STEEL FLANGE VARIANTS



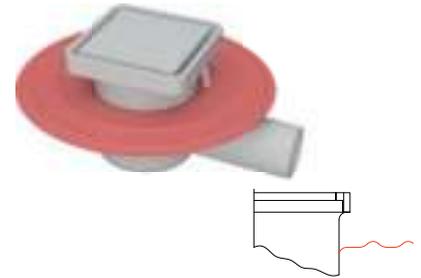
HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



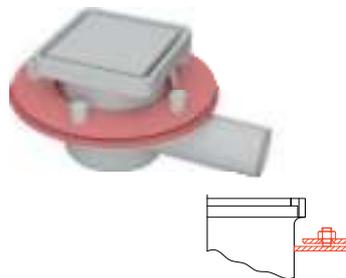
KBF, ADHESIVE FLANGE⁴

according to EN 1253, with/without soakage pits



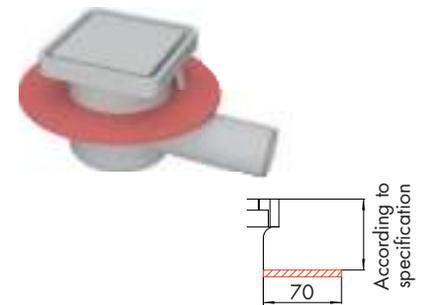
KMF, ADHESIVE-AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without soakage pits



FDIN, WITH CLAMPING FLANGE⁴

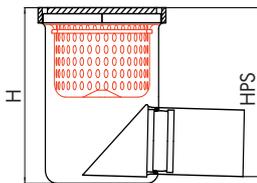
two part, according to DIN 18531-18535, with/without soakage pits



TGF, SUPPORT FLANGE⁴

standard width 70 mm
T = 6.0 mm

SUPPLEMENTARY EQUIPMENT



SFH - FILTER BASKET⁶

with increased volume

MODEL	H [mm]	Volume [l]	HPS [mm]
DRS-100	280	2.8	269
DRS-150	345	5.2	329

² load classes and other variants see page 44/45

⁴ flanges, details see page 50/51

⁶ filter baskets, details see page 48

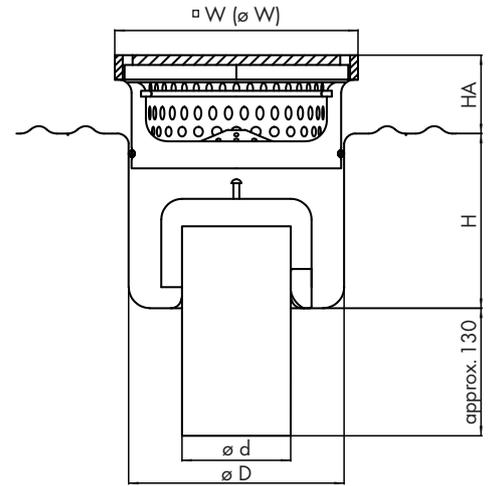
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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H-S/HK-S

two part/vertical



H-S/HK-S

Floor drain with height-adjustable and rotatable upper part (with/without sealing ring), with filter basket, lower part with adhesive flange, with air trap (without sealing ring – maintenance free), consisting of bell and welded standpipe

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HA optional [mm]	Filter basket volume [l]	Flow rate [l/s]
HK-070-E-S	70	75	201	–	190	119	60–80 80–140 according to specification	0.65	1.5
HK-070-RD-S	70	75	–	235	190	119	60–80 80–140 according to specification	0.65	1.5
H-100-E-S	100	110	246	–	218	178	60–80 80–140 according to specification	1.5	2.8
H-100-RD-S	100	110	–	270	218	178	60–80 80–140 according to specification	1.5	2.8
HK-100-E-S	100	110	201	–	190	119	60–80 80–140 according to specification	0.65	2.8
HK-100-RD-S	100	110	–	235	190	119	60–80 80–140 according to specification	0.65	2.8
H-150-E-S	150	160	310	–	283	209	60–80 80–140 according to specification	2.75	8.2
H-150-RD-S	150	160	–	331	283	209	60–80 80–140 according to specification	2.75	8.2
H-200-E-S	200	200	410	–	356	271	70–90 90–160 according to specification	6.0	12.5
H-200-RD-S	200	200	–	410	356	271	70–90 90–160 according to specification	6.0	12.5

COVER VARIANTS



SR – BAR GRATE²
fully welded with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant (R11–R13)



FS – TILE SHELL²
sheet metal to accommodate coatings or tiles



TRKN – FUNNEL CONICAL²
as splash protection for the introduction of supply lines



P – PLATE²
side inlet slot



B – SHEET METAL²
also in individual versions



PRD – PLATE²
with rolling sealing ring, until DN150



TRZN – FUNNEL CYLINDRICAL²
with integrated air trap to increase the flow rate up to 45 liters/second

STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



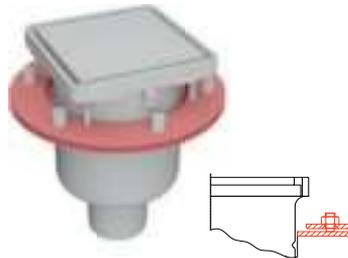
KBF, ADHESIVE FLANGE⁴

according to EN 1253, with/without sealing ring



KMF, ADHESIVE- AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without sealing ring



FDIN, WITH CLAMPING FLANGE⁴

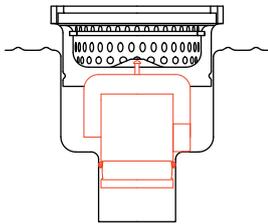
two part, according to DIN 18531-18535, with/without sealing ring



AR, ATTACHMENT EDGE⁴

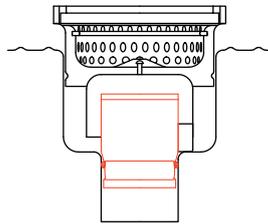
on the lower part of the housing

SUPPLEMENTARY EQUIPMENT



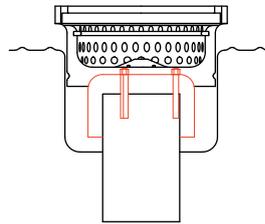
GVS - AIR TRAP⁵

one part with sealing ring, pluggable for residual discharge



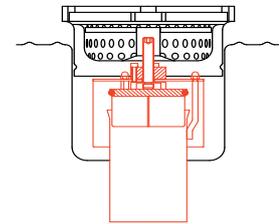
GVSZ - AIR TRAP⁵

two part with sealing ring, removable bell, pluggable for residual discharge



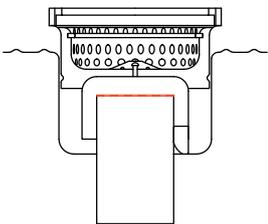
GVV - AIR TRAP⁵

bolted



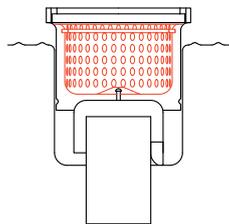
AS - AIR TRAP⁵

lockable, backpressure-tight according EN 1253-4, class Bt



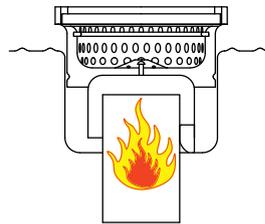
SB - OUTLET FILTER⁶

optional: bolted, pluggable or welded-in



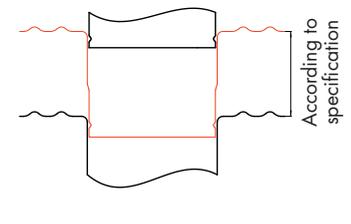
SFH - FILTER BASKET⁶

with increased volume



BS - FIRE PROTECTION

see pages 52-54



ZWS - ADAPTOR

with adhesive flange, optional with adhesive- and clamping flange to inclusion of an additional sealing layer. Standard 100, other heights on request

MODEL	Vol. [l]
HK-070	2.00
HK-100	2.00
H-100	2.80
H-150	5.20

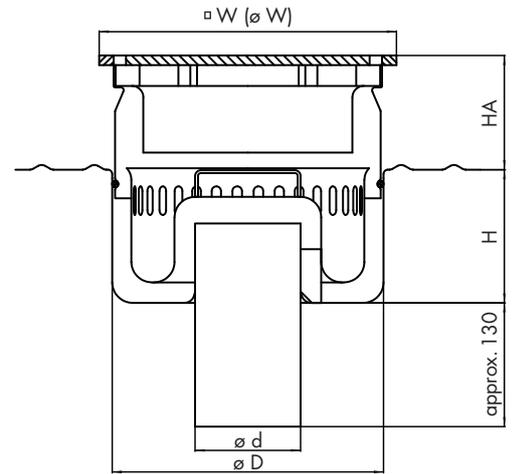
TENDER TEXT

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² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

79-S

two part/vertical



79-S

Floor drain with height-adjustable and rotatable upper part (with/without sealing ring), lower part with adhesive flange, with combined filter basket and air trap (without sealing ring – maintenance free), with welded standpipe

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HA optional [mm]	Filter basket volume [l]	Flow rate [l/s]
79-070-E-S	70	75	310	–	243	133	40–120 according to specification	2.2	1.5
79-070-RD-S	70	75	–	296	243	133	40–120 according to specification	2.2	1.5
79-100-E-S	100	110	310	–	283	140	40–120 according to specification	4.2	2.8
79-100-RD-S	100	110	–	299	283	140	40–120 according to specification	4.2	2.8
79-150-E-S	150	160	390	–	361	161	40–120 according to specification	5.6	8.2
79-150-RD-S	150	160	–	372	361	161	40–120 according to specification	5.6	8.2

COVER VARIANTS



SR – BAR GRATE²
fully welded with the frame bar



GR – MESH GRATING²
smooth (R10) or slip-resistant (R11–R13)



P – PLATE²
side inlet slot



PRD – PLATE²
with rolling sealing ring, until DN100



TRKN – FUNNEL CONICAL²
as splash protection for the introduction of supply lines



TRZN – FUNNEL CYLINDRICAL²
with integrated air trap to increase the flow rate up to 45 liters/second

STAINLESS STEEL FLANGE VARIANTS



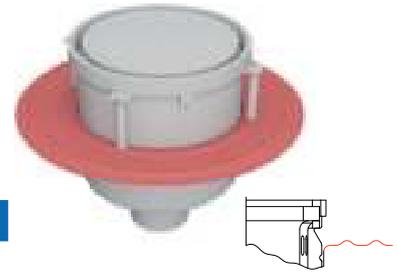
VARIANTS	H1 [mm]
square	0-10
round	0-22

HFA, BONDING FLANGE⁴
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim

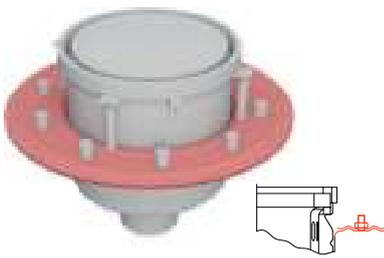


VARIANTS	H1 [mm]
square	0-10
round	0-22

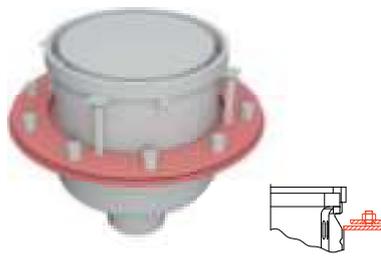
HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim



KBF, ADHESIVE FLANGE⁴
according to EN 1253, with/
without sealing ring



**KMF, ADHESIVE-
AND CLAMPING FLANGE⁴**
two part, according to EN 1253,
with/without sealing ring

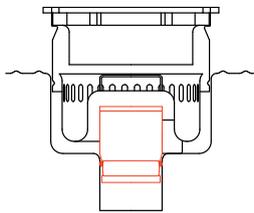


FDIN, WITH CLAMPING FLANGE⁴
two part, according to DIN 18531-18535,
with/without sealing ring

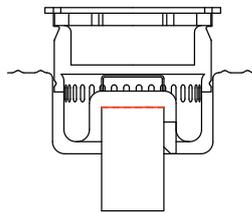


AR, ATTACHMENT EDGE⁴
on the lower part of the housing

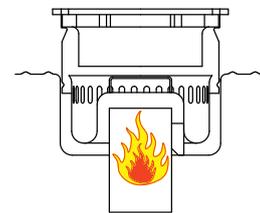
SUPPLEMENTARY EQUIPMENT



GVSZ - AIR TRAP⁵
two part with sealing ring, removable
bell, pluggable for residual discharge



SB - OUTLET FILTER⁶
optional:
bolted, pluggable or
welded-in



BS - FIRE PROTECTION
see pages 52-54

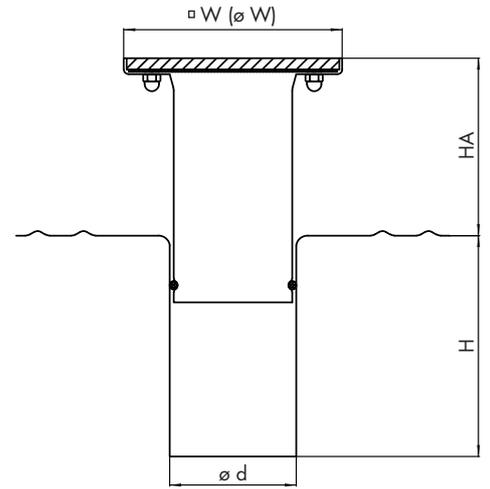
² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

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REV-S-HV

two part/vertical



REV-S-HV

Inspection opening two part with height-adjustable and rotatable upper part (with sealing ring), bolted plate cover odor- and watertight version with flat gasket, lower part with adhesive flange, without air trap

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	∅ W [mm]	∅ W [mm]	H [mm]	HA [mm]
REV-HV-100-E-S	100	110	190	–	195	30–180
REV-HV-100-RD-S	100	110	–	218	195	30–180
REV-HV-125-E-S	125	125	190	–	200	30–180
REV-HV-125-RD-S	125	125	–	218	200	30–180
REV-HV-150-E-S	150	160	190	–	204	30–180
REV-HV-150-RD-S	150	160	–	218	204	30–180

COVER VARIANTS



PV – PLATE BOLTED²
M125, tightly closing



FS – TILE SHELL BOLTED²
sheet metal to accommodate coatings or tiles

² load classes and other variants see page 44/45

TENDER TEXT

Tender texts for our floor drains are available on our website and at Heinze.de. We are also happy to create individual text templates for your projects.

HYGIENE IS THE TOP PRIORITY

Quality, experience and high service levels, from the design phase, through to manufacture and delivery – this is WIEDEMANN.

Floor drains made of stainless steel from WIEDEMANN have been available for over seven decades. With this experience, we have constantly developed our technology and adapted it to the market. The hygienic requirements of the food processing, chemical- and pharmaceutical industries are always a top priority.

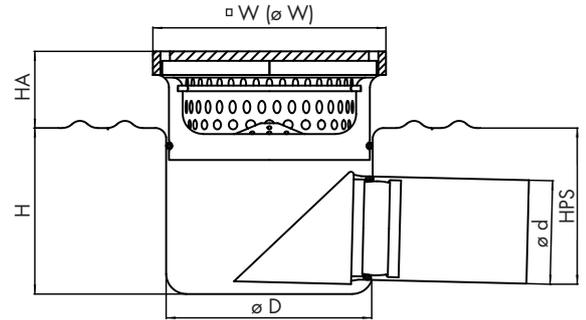
The external monitoring according to EN 1253 by the TÜV Rheinland LGA and the drainage systems developed in accordance with hygiene guidelines (GMP & EHEDG, etc.) certified by the Fraunhofer Institute, shows that quality assurance and efficiency are core components of our culture.



2.40 INDUSTRIAL – FLOOR DRAINS

H-W/HK-W

two part/horizontal



H-W/HK-W

Floor drain with height-adjustable and rotatable upper part (with/without sealing ring), with filter basket, lower part with adhesive flange, with pluggable air trap and sealing ring

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	□ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HPS [mm]	HA optional [mm]	Filter basket volume [l]	Flow rate [l/s]
HK-070-E-W	70	75	201	-	190	160	141	60-80 according to specification	0.5	1.5
HK-070-RD-W	70	75	-	235	190	160	141	60-80 according to specification	0.5	1.5
H-100-E-W	100	110	246	-	218	178	167	60-80 according to specification	1.5	2.8
H-100-RD-W	100	110	-	270	218	178	167	60-80 according to specification	1.5	2.8
HK-100-E-W	100	110	201	-	190	189	164	60-80 according to specification	0.65	2.8
HK-100-RD-W	100	110	-	235	190	189	164	60-80 according to specification	0.65	2.8
H-150-E-W	150	160	310	-	283	233	217	60-80 according to specification	2.75	8.2
H-150-RD-W	150	160	-	331	283	233	217	60-80 according to specification	2.75	8.2
H-200-E-W	200	200	410	-	356	460	334	60-80 according to specification	6.0	12.5
H-200-RD-W	200	200	-	410	356	460	334	60-80 according to specification	6.0	12.5

COVER VARIANTS



SR - BAR GRATE²
fully welded with the frame bar



GR - MESH GRATING²
smooth (R10) or slip-resistant (R11-R13)



FS - TILE SHELL²
sheet metal to accommodate coatings or tiles



TRKN - FUNNEL CONICAL²
as splash protection for the introduction of supply lines



P - PLATE²
side inlet slot

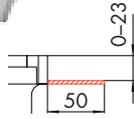


B - SHEET METAL²
also in individual versions



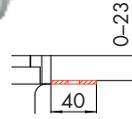
PRD - PLATE²
with rolling sealing ring, until DN150

STAINLESS STEEL FLANGE VARIANTS



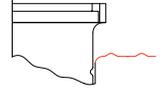
HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



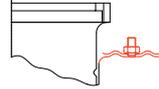
HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



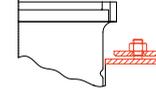
KBF, ADHESIVE FLANGE⁴

according to EN 1253, with/without sealing ring



KMF, ADHESIVE- AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without sealing ring



FDIN, WITH CLAMPING FLANGE⁴

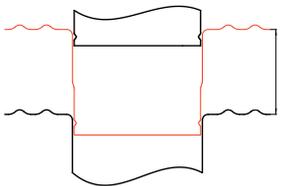
two part, according to DIN 18531-18535, with/without sealing ring



AR, ATTACHMENT EDGE⁴

on the lower part of the housing

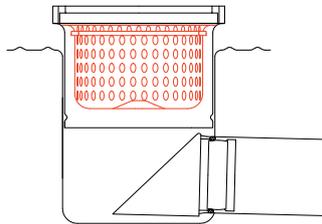
SUPPLEMENTARY EQUIPMENT



According to specification

ZWS – ADAPTOR

with adhesive flange, optional with adhesive- and clamping flange for use with inclusion of an additional sealing layer. Standard 100, other heights on request



SFH – FILTER BASKET⁶

with increased volume

TENDER TEXT

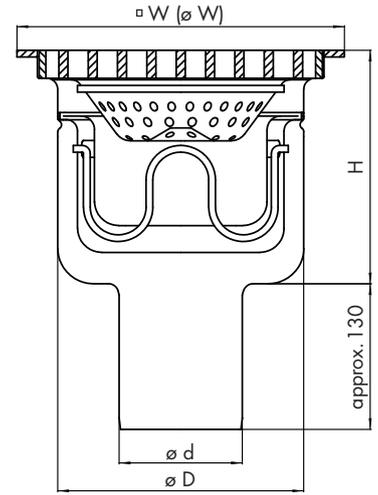
Tender texts for our floor drains are available on our website and at Heinze.de. We are also happy to create individual text templates for your projects.

² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
¹⁴ customized version (not DIN-compliant)

3.10 HYGIENE - FLOOR DRAINS

HYG-S

(certified according to the EHEDG guidelines)
one part/vertical



HYG-S

certified hygienic floor drains with hygienic air trap made of deep-drawn material (no welded seams), can be completely dismantled (optimal cleaning) and completely drainable, with filter basket

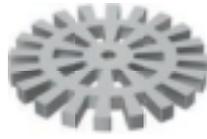
INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
HYG-100-E-S	100	110	290	-	218	192	1.0	2.8
HYG-100-RD-S	100	110	-	290	218	192	1.0	2.8

COVER VARIANTS

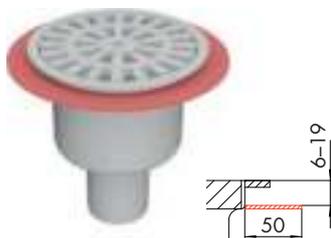


SR - BAR GRATE²
fully welded with the frame bar, hygiene certified, according to the EHEDG guidelines

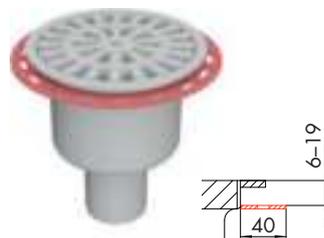


LR - LASER GRATE²
hygiene certified, according to the EHEDG guidelines, t = 20 mm

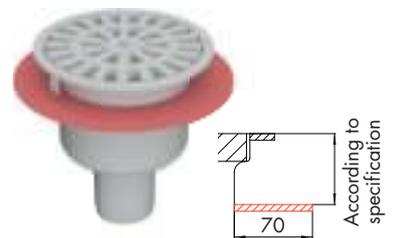
STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



TGF, SUPPORT FLANGE⁴
standard width 70 mm
T = 6.0 mm

² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

Tender texts for our floor drains are available on our website and at Heinze.de. We are also happy to create individual text templates for your projects.

CERTIFIED
ACCORDING
TO THE
EHEDG
GUIDELINES



WLT
Wiedemann Technik
GmbH & Co. KG

INNOVATIVE AND HYGIENIC

This innovative drainage solution developed by WIEDEMANN consists of cover and floor drains incl. a patented air trap. This is without welding seams and can be completely dismantled for cleaning without the need for tools.

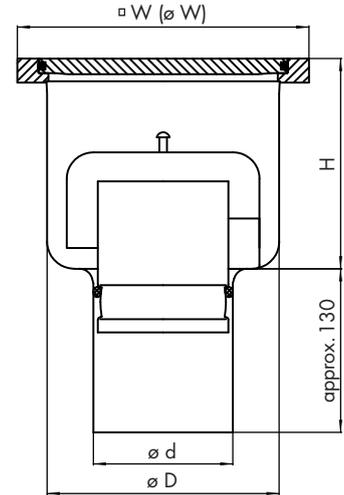
The outstanding properties are confirmed by a hygiene certification (in accordance with EHEDG guidelines) from the renowned Fraunhofer Institute in Stuttgart, which is based on a combination of requirements from existing basic specifications: EU GMP Annex 1, EHEDG Doc. 8 & Doc. 44, DIN EN1672-2 and ISO 14159.

Our product has also been awarded the highest possible classification (GMP C) for clean room classes for floor drains.



Clean room 88N-S

one part/vertical



88N-S

hygienic floor drain (clean room), pluggable air trap with sealing ring, plate cover with O-ring sealing and smallest gap between cover plate and inlet edge, water- and odor-tight according to EN 1253-4

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
88N-070-E-S	70	75	230	-	183	167	-	1.5
88N-070-RD-S	70	75	-	235	183	167	-	1.5
88N-100-E-S	100	110	230	-	183	167	-	2.8
88N-100-RD-S	100	110	-	235	183	167	-	2.8

COVER VARIANTS

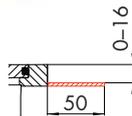


POD - PLATE²
with O-ring sealing

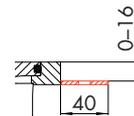


PLO - PLATE²
with perforation

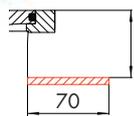
STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

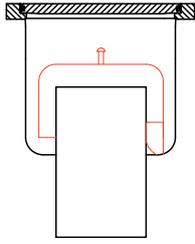


HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

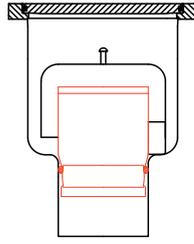


TGF, SUPPORT FLANGE⁴
standard width 70 mm
T = 6.0 mm

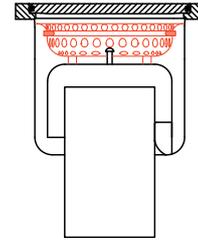
SUPPLEMENTARY EQUIPMENT



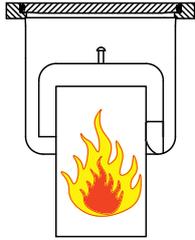
GV – AIR TRAP⁵
with welded standpipe



GVSZ – AIR TRAP⁵
two part with sealing ring, removable bell,
pluggable for residual discharge



SF – FILTER BASKET⁶



BS – FIRE PROTECTION
see pages 52–54

ACCESSORIES



Vacuum lifting tool
for tight sealed covers

RECOMMENDATIONS

Use in hygiene-sensitive areas, such as laboratories or production rooms, where it is imperative that the required hygiene conditions are maintained. Fast and complication-free execution of cleaning and maintenance processes. This specially designed product in stainless steel is resistant to chemical and microbiological processes. The material has no rough and porous surfaces, hard-to-reach areas or dead spaces.

The gap between the cover plate and the inlet edge has been reduced to a minimum in terms of production technology. As a result, this drain does not provide any storage space for germs and other contaminants, and the required cleaning processes are also significantly simplified and accelerated.

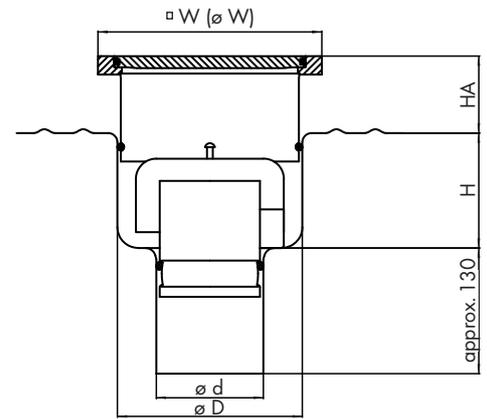
² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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Clean room 88N-S-HV

two part/vertical



88N-S-HV

hygienic floor drain (clean room) with height-adjustable and rotatable upper part (with/without sealing ring), lower part with adhesive flange, pluggable air trap with sealing ring, plate cover with O-Ring sealing and smallest gap between cover plate and inlet edge, water- and odor-tight according to EN 1253-4

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	$\varnothing d$ [mm]	$\varnothing W$ [mm]	$\varnothing W$ [mm]	$\varnothing D$ [mm]	H [mm]	HA optional [mm]	Filter basket volume [l]	Flow rate [l/s]
88N-070-E-S-HV	70	75	230	-	190	119	60-80 according to specification	-	1.5
88N-070-RD-S-HV	70	75	-	235	190	119	60-80 according to specification	-	1.5
88N-100-E-S-HV	100	110	230	-	190	119	60-80 according to specification	-	2.8
88N-100-RD-S-HV	100	110	-	235	190	119	60-80 according to specification	-	2.8

COVER VARIANTS

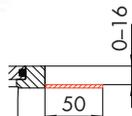


POD - PLATE²
with O-ring sealing

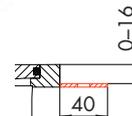


PLO - PLATE²
with perforation

STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

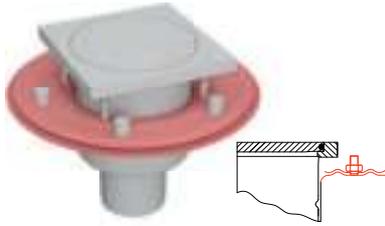


HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

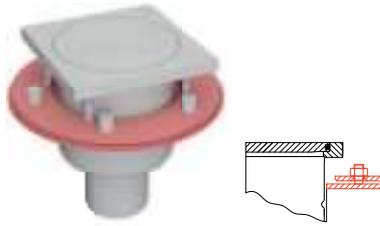


KBF, ADHESIVE FLANGE⁴
according to EN 1253, with/without sealing ring

STAINLESS STEEL FLANGE VARIANTS



KMF, ADHESIVE- AND CLAMPING FLANGE⁴
two part, according to EN 1253,
with/without sealing ring

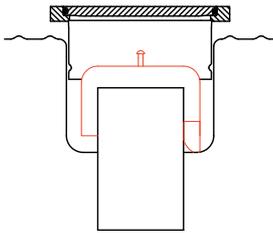


FDIN, WITH CLAMPING FLANGE⁴
two part, according to DIN 18531–18535,
with/without sealing ring

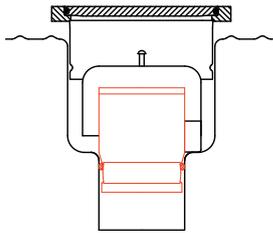


AR, ATTACHMENT EDGE⁴
on the lower part of the housing

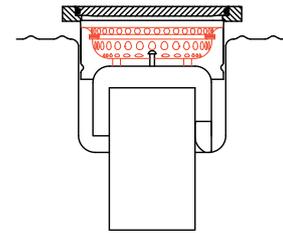
SUPPLEMENTARY EQUIPMENT



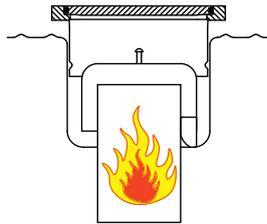
GV – AIR TRAP⁵
with welded standpipe



GVSZ – AIR TRAP⁵
two part with sealing ring, removable bell,
pluggable for residual discharge



SF – FILTER BASKET⁶



BS – FIRE PROTECTION
see pages 52–54

ACCESSORIES



Vacuum lifting tool
for tight sealed covers

RECOMMENDATIONS

Use in hygiene-sensitive areas, such as laboratories or production rooms, where it is imperative that the required hygiene conditions are maintained. Fast and complication-free execution of cleaning and maintenance processes. This specially designed product in stainless steel is resistant to chemical and microbiological processes. The material has no rough and porous surfaces, hard-to-reach areas or dead spaces.

The gap between the cover plate and the inlet edge has been reduced to a minimum in terms of production technology. As a result, this drain does not provide any storage space for germs and other contaminants, and the required cleaning processes are also significantly simplified and accelerated.

TENDER TEXT

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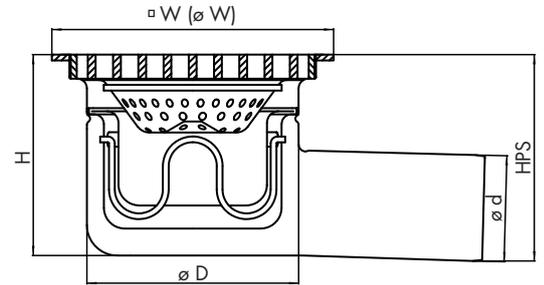
² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁵ air traps, details see page 49
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

3.40 HYGIENE – FLOOR DRAINS

HYG-W

(certified according to the EHEDG guidelines)

one part/horizontal



HYG-W

certified hygienic floor drains with hygienic air trap made of deep-drawn material (no welded seams), can be completely dismantled (optimal cleaning) and completely drainable, with filter basket

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HPS [mm]	Filter basket volume [l]	Flow rate [l/s]
HYG-100-E-W	100	110	290	–	218	192	199	1.0	2.8
HYG-100-RD-W	100	110	–	290	218	192	199	1.0	2.8

COVER VARIANTS



SR – BAR GRATE²

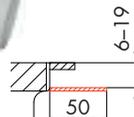
fully welded with the frame bar, hygiene certified, according to the EHEDG guidelines



LR – LASER GRATE²

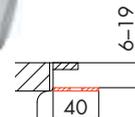
hygiene certified, according to the EHEDG guidelines, $t = 20 \text{ mm}$

STAINLESS STEEL FLANGE VARIANTS



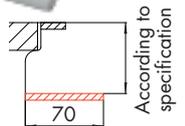
HFA, BONDING FLANGE⁴

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}

for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



TGF, SUPPORT FLANGE⁴

standard width 70 mm
T = 6.0 mm

² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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**CERTIFIED
ACCORDING
TO THE
EHEDG
GUIDELINES**



INNOVATIVE AND HYGIENIC

This innovative drainage solution developed by WIEDEMANN consists of coverand floor drains incl. a patented air trap. This is without welding seams and can be completely dismantled for cleaning without the need for tools.

The outstanding properties are confirmed by a hygiene certification (in accordance with EHEDG guidelines) from the renowned Fraunhofer Institute in Stuttgart, which is based on a combination of requirements from existing basic specifications: EU GMP Annex 1, EHEDG Doc. 8 & Doc. 44, DIN EN1672-2 and ISO 14159.

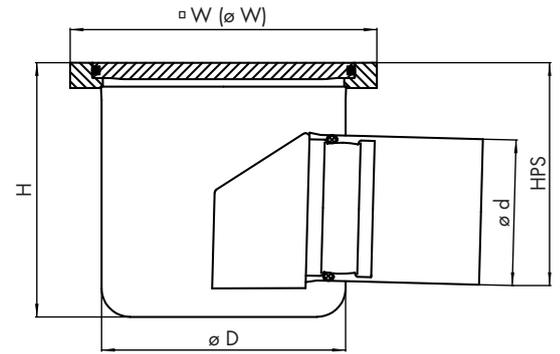
Our product has also been awarded the highest possible classification (GMP C) for clean room classes for floor drains.



 **Fraunhofer**

Clean room 88N-W

one part/horizontal



88N-W

hygienic floor drain (clean room), pluggable air trap with sealing ring, plate cover with O-Ring sealing and smallest gap between cover plate and inlet edge, water- and odor-tight according to EN 1253-4

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	∅ W [mm]	∅ W [mm]	∅ D [mm]	H [mm]	HPS [mm]	Filter basket volume [l]	Flow rate [l/s]
88N-070-E-W	70	75	230	-	183	167	148	-	1.5
88N-070-RD-W	70	75	-	235	183	167	148	-	1.5
88N-100-E-W	100	110	230	-	183	192	168	-	2.8
88N-100-RD-W	100	110	-	235	183	192	168	-	2.8

COVER VARIANTS

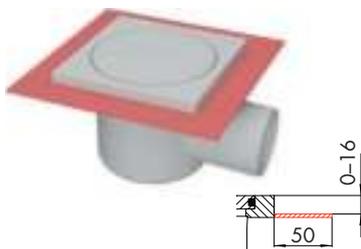


POD - PLATE²
with O-ring sealing

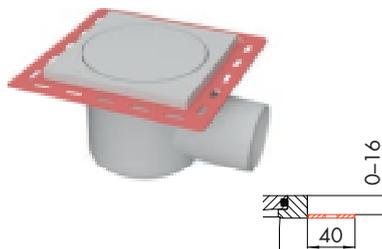


PLO - PLATE²
with perforation

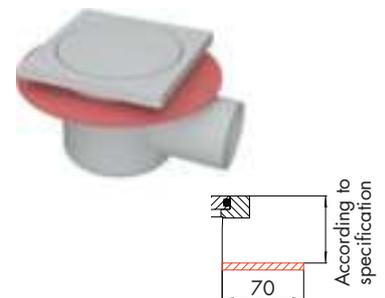
STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim

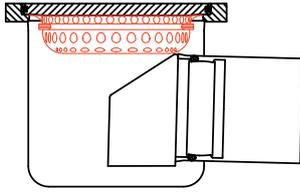


HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim



TGF, SUPPORT FLANGE⁴
standard width 70 mm
T = 6.0 mm

SUPPLEMENTARY EQUIPMENT



SF - FILTER BASKET⁶

ACCESSORIES



Vacuum lifting tool
for tight sealed covers

RECOMMENDATIONS

Use in hygiene-sensitive areas, such as laboratories or production rooms, where it is imperative that the required hygiene conditions are maintained. Fast and complication-free execution of cleaning and maintenance processes. This specially designed product in stainless steel is resistant to chemical and microbiological processes. The material has no rough and porous surfaces, hard-to-reach areas or dead spaces.

The gap between the cover plate and the inlet edge has been reduced to a minimum in terms of production technology. As a result, this drain does not provide any storage space for germs and other contaminants, and the required cleaning processes are also significantly simplified and accelerated.

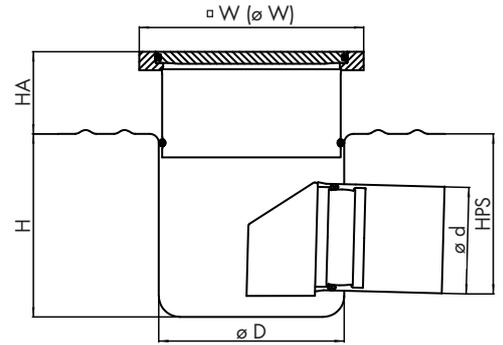
² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

TENDER TEXT

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Clean room 88N-W-HV

two part/horizontal



88N-W-HV

hygienic floor drain (clean room) with height-adjustable and rotatable upper part (with/without sealing ring), lower part with adhesive flange, pluggable air trap with sealing ring, plate cover with O-ring sealing and smallest gap between cover plate and inlet edge, water- and odor-tight according to EN 1253-4

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	ø d [mm]	W [mm]	ø W [mm]	ø D [mm]	H [mm]	HPS [mm]	HA optional [mm]	Filter basket volume [l]	Flow rate [l/s]
88N-070-E-W-HV	70	75	230	-	190	160	141	60-80 according to specification	-	1.5
88N-070-RD-W-HV	70	75	-	235	190	160	141	60-80 according to specification	-	1.5
88N-100-E-W-HV	100	110	230	-	190	189	164	60-80 according to specification	-	2.8
88N-100-RD-W-HV	100	110	-	235	190	189	164	60-80 according to specification	-	2.8

COVER VARIANTS



POD - PLATE²
with O-ring sealing



PLO - PLATE²
with perforation

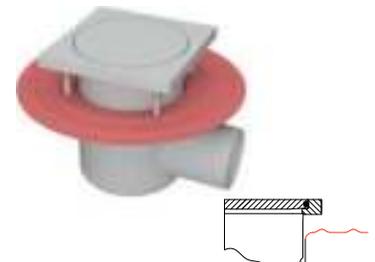
STAINLESS STEEL FLANGE VARIANTS



HFA, BONDING FLANGE⁴
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim

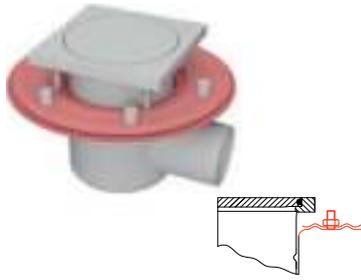


HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings and sealing liquid-tight welded to the floor drain for square or round inlet rim



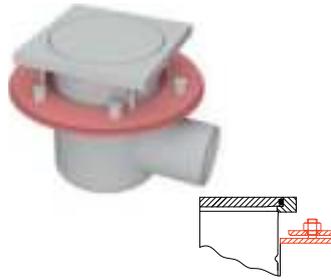
KBF, ADHESIVE FLANGE⁴
according to EN 1253, with/without sealing ring

STAINLESS STEEL FLANGE VARIANTS



KMF, ADHESIVE- AND CLAMPING FLANGE⁴

two part, according to EN 1253, with/without sealing ring



FDIN, WITH CLAMPING FLANGE⁴

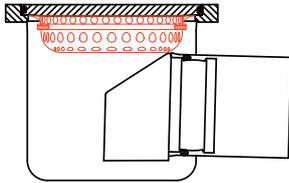
two part, according to DIN 18531–18535, with/without sealing ring



AR, ATTACHMENT EDGE⁴

on the lower part of the housing

SUPPLEMENTARY EQUIPMENT



SF – FILTER BASKET⁶

ACCESSORIES



Vacuum lifting tool for tight sealed covers

RECOMMENDATIONS

Use in hygiene-sensitive areas, such as laboratories or production rooms, where it is imperative that the required hygiene conditions are maintained. Fast and complication-free execution of cleaning and maintenance processes. This specially designed product in stainless steel is resistant to chemical and microbiological processes. The material has no rough and porous surfaces, hard-to-reach areas or dead spaces.

The gap between the cover plate and the inlet edge has been reduced to a minimum in terms of production technology. As a result, this drain does not provide any storage space for germs and other contaminants, and the required cleaning processes are also significantly simplified and accelerated.

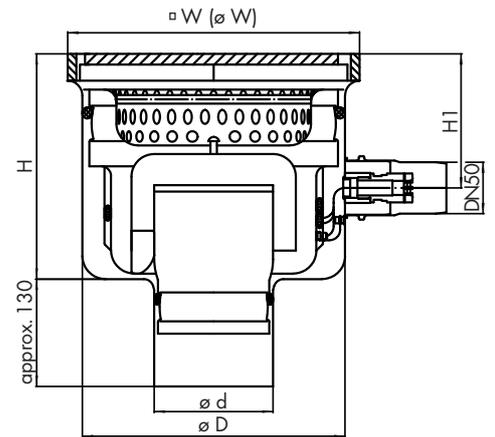
TENDER TEXT

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² load classes and other variants see page 44/45
⁴ flanges, details see page 50/51
⁶ filter baskets, details see page 48
¹⁴ customized version (not DIN-compliant)

93-S, heated

one part/vertical



93-S

Floor drain heatable with easy to maintain and removable inner part with heating band, for temperatures down to -20 °C, with filter basket and air trap (without sealing ring – maintenance free), consisting of bell and standpipe

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	H1 [mm]	Filter basket volume [l]	Flow rate [l/s]
93-100-E-S	100	110	270	–	243	210	140	1.8	2.8
93-100-RD-S	100	110	–	296	243	210	140	1.8	2.8
93-150-E-S	150	160	410	–	356	295	190	5.8	8.2
93-150-RD-S	150	160	–	410	356	295	190	5.8	8.2

COVER VARIANTS



SR - BAR GRATE²
fully welded
with the frame bar

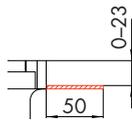


GR - MESH GRATING²
smooth (R10) or slip-resistant
(R11–R13)

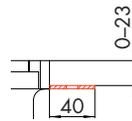


P - PLATE²
side inlet slot

STAINLESS STEEL FLANGE VARIANTS (OTHER VARIANTS ON REQUEST)



HFA, BONDING FLANGE⁴
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim

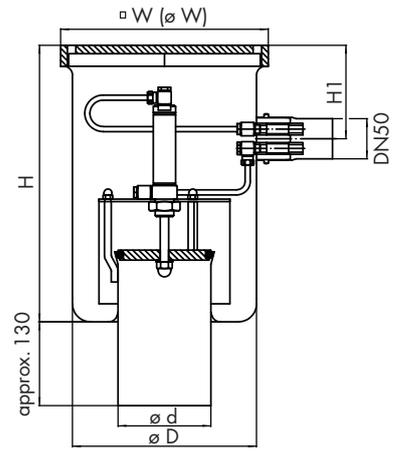
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⁴ flanges, details see page 50/51
¹⁴ customized version (not DIN-compliant)

94-S, pneumatic

one part/vertical



94-S

Floor drain can be closed pneumatically, drain socket is opened and closed by a pneumatically driven sealing disc, air trap bolted, without filter basket, with liquid-tight inspection opening (sleeve DN 50 for on-site connection of a protective pipe).

INLET RIM	GRADE
square/round	1.4301 (AISI 304) 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	DN	Ø d [mm]	Ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	H1 [mm]	Flow rate [l/s]
94-070-E-S	70	75	246	–	218	330	116	1.5
94-070-RD-S	70	75	–	270	218	330	116	1.5
94-100-E-S	100	110	246	–	218	330	116	2.8
94-100-RD-S	100	110	–	270	218	330	116	2.8
94-150-E-S	150	160	310	–	283	375	116	8.2
94-150-RD-S	150	160	–	310	283	375	116	8.2

COVER VARIANTS



SR - BAR GRATE²
fully welded
with the frame bar



GR - MESH GRATING²
smooth (R10) or slip-resistant
(R11–R13)



P - PLATE²
side inlet slot



PRD - PLATE²
with rolling sealing ring,
until DN150

STAINLESS STEEL FLANGE VARIANTS (OTHER VARIANTS ON REQUEST)



HFA, BONDING FLANGE⁴
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim



HFLALO, BONDING FLANGE, PERFORATED^{4,14}
for connection to floor coverings
and sealing liquid-tight welded to the floor
drain for square or round inlet rim

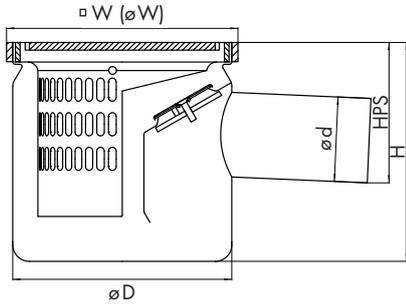
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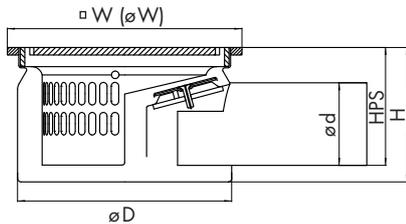
Special floor drains



INDUSTRIAL-FLOOR DRAIN 81-W

with horizontal outlet, very large filter basket volume and welded air trap with inspection cover

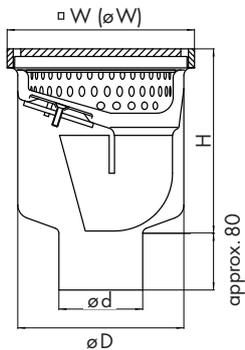
MODEL	DN	Ø d [mm]	ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HPS [mm]	Filter basket volume [l]	Flow rate [l/s]
81-70-RD-W	70	75	-	296	243	220	149	3.0	1.5
81-100-RD-W	100	110	-	299	283	285	182	4.0	2.8
81-150-RD-W	150	160	-	324	308	350	232	7.9	8.2



INDUSTRIAL-FLOOR DRAIN 72WN-W

with horizontal outlet, very large filter basket volume and welded air trap with inspection cover

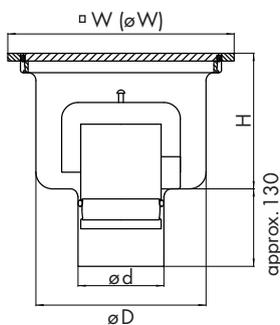
MODEL	DN	Ø d [mm]	ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	HPS [mm]	Filter basket volume [l]	Flow rate [l/s]
72WN-70-E-W	70	75	310	-	243	165	136	2.3	1.5
72WN-70-RD-W	70	75	-	296	243	165	136	2.3	1.5
72WN-100-E-W	100	110	310	-	283	179	157	2.7	2.8
72WN-100-RD-W	100	110	-	299	283	179	157	2.7	2.8
72WN-150-E-W	150	160	390	-	356	270	240	7.5	8.2
72WN-150-RD-W	150	160	-	372	356	270	240	7.5	8.2



INDUSTRIAL-FLOOR DRAIN OPTI-S

with flow-optimized, U-shaped air trap results in a high dirt removal rate while only requiring a small amount of fresh water, as well as with filter basket

MODEL	DN	Ø d [mm]	ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
OPTI-100-E-S	100	110	246	-	218	245	1.4	2.8
OPTI-100-RD-S	100	110	-	270	218	245	1.4	2.8



HYGIENE-FLOOR DRAIN 91-S (CLEAN ROOM)

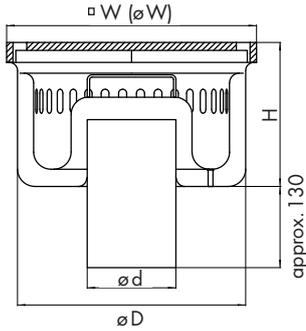
Plate cover with rolling sealing and smallest gap between cover plate and inlet edge, water- and odor-tight according to EN 1253-4, pluggable air trap with sealing ring, without filter basket



MODEL	DN	Ø d [mm]	ø W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
91-70-E-S	70	75	290	-	218	153	-	1.5
91-70-RD-S	70	75	-	257	218	153	-	1.5
91-100-E-S	100	110	290	-	218	175	-	2.8
91-100-RD-S	100	110	-	257	218	175	-	2.8

FLOOR DRAINS WITH FIRE PROTECTION
 See chapters 5.60–5.62 on pages 52–54



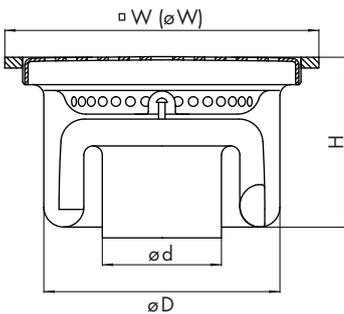


INDUSTRIAL-FLOOR DRAIN 96-S

with combined filter basket and air trap, with welded standpipe
(without sealing ring – maintenance free)



MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
96-70-E-S	70	75	246	–	218	170	2.0	1.5
96-70-RD-S	70	75	–	273	218	170	2.0	1.5
96-100-E-S	100	110	310	–	283	180	4.0	2.8
96-100-RD-S	100	110	–	331	283	180	4.0	2.8

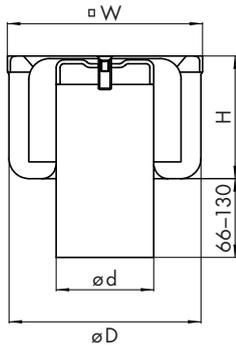


INDUSTRIAL-FLOOR DRAIN 2001-S

for particularly low installation heights, with air trap
(without sealing ring – maintenance free) and welded standpipe, with flat filter basket



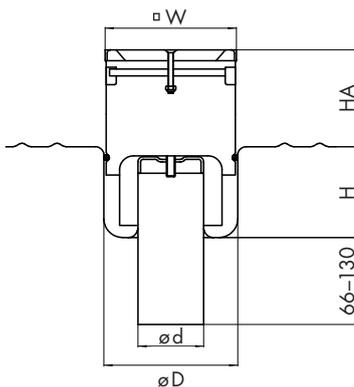
MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
2001-100-E-S	100	110	290	–	218	158	0.5	2.8
2001-100-RD-S	100	110	–	257	218	158	0.5	2.8



SANITARY-FLOOR DRAIN SSK

one part, suitable for pedestrian areas, with screwed cover, with air trap
(without sealing ring – maintenance free) and welded standpipe, without filter basket

MODEL	DN	Ø d [mm]	∅ W [mm]	Ø W [mm]	Ø D [mm]	H [mm]	Filter basket volume [l]	Flow rate [l/s]
SSK-50-E-S	50	50	150	–	148	95	–	1.0
SSK-70-E-S	70	75	150	–	148	95	–	1.5
SSK-100-E-S	100	110	197	–	183	108	–	2.8



SANITARY-FLOOR DRAIN SSK-HV

two part, suitable for pedestrian areas, with screwed cover, with height-adjustable and rotatable upper part (with/without sealing ring), without filter basket, lower part with adhesive flange, with air trap (without sealing ring – maintenance free) and welded standpipe

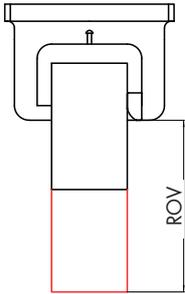
MODEL	DN	Ø d [mm]	∅ W [mm]	Ø D [mm]	H [mm]	HA [mm]	Flow rate [l/s]
SSK-50-E-S-HV	50	50	150	153	106	60-110	1.0
SSK-70-E-S-HV	70	75	150	153	106	60-110	1.5
SSK-100-E-S-HV	100	110	197	190	119	60-110	2.8

FLOOR DRAINS FOR INSTALLATION IN SURFACES ACCORDING TO WHG

WIEDEMANN is recognized as a specialized company according to the German Water Resources Act (WHG) in conjunction with § 62 AwSV. in connection with § 62 AwSV. For the installation in areas with WHG-requirement floor drains are always made of stainless steel according to DIN EN 10088-2, a minimum wall thickness of 3 mm incl. a weld seam test according to DIN EN ISO 3452-1 and verifiable documentation on the raw material. For special requirements and more detailed information, please contact us.



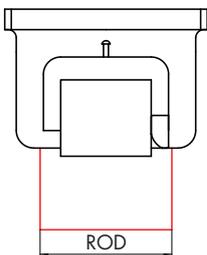
Pipe extension/-reduction



ROV, PIPE EXTENSION

An **extension** of the exit pipe is necessary if:

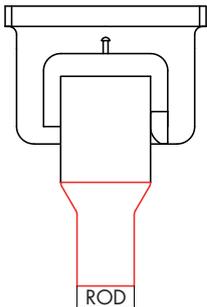
- the ceiling is so thick that a pipe bend cannot be fitted onto the exit pipe
- the ceiling is so thick that fire protection rules would not permit filling underneath the pipe
- the top edge of the pipe collar is too deep in the earth



ROD, EXTENSION PIPE DIAMETER BY OVER-WELDED PIPE

An **increase** of the exit pipe diameter is necessary if:

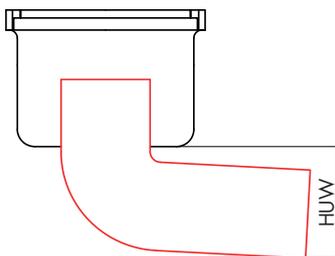
- connected to stoneware or polyurethane pipe
- the underground pipe has a greater nominal width than necessary for the floor drain



ROD, REDUCTION PIPE DIAMETER

A **reduction** of the exit pipe diameter is necessary if:

- the underground pipe has a smaller nominal width than necessary for the floor drain



UW, EXIT PIPE "BELOW HORIZONTAL"

This "below horizontal" version of a vertical floor drain is suitable for particularly high-lying underground pipes. Because the pipe bend is solidly welded to the exit pipe, this version is also more secure than a fitted pipe bend which can slip off if knocked inappropriately from above.

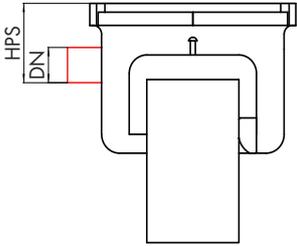
STANDARD-FD – AFTER NOMINAL DIMENSION

DN	TYPE	HUW
DN 70	GV	114
DN 70	GVS	163
DN 100	GV	139
DN 100	GVS	197
DN 150	GV	196
DN 150	GVS	259
DN 200	GV	255
DN 200	GVS	366

SPECIAL-FD – AFTER NOMINAL DIMENSION

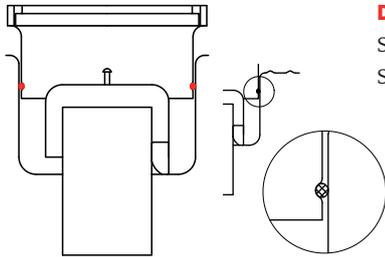
MODEL	DN	TYPE	HUW
97	70	GV	102
91	70	GV	102
71/71-AS	70	GV	106
79	70	GV	106
88N/88N-HV	70	GV	102
88N/88N-HV	100	GV	153
DRSK	100	GV	153

Inlet spigot/secondary drainage/ fixing variants



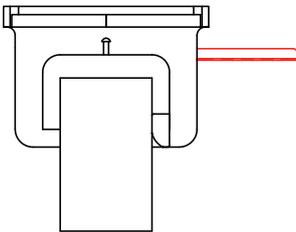
SDN, INLET SPIGOT

lateral pipe socket according to on-site requirements



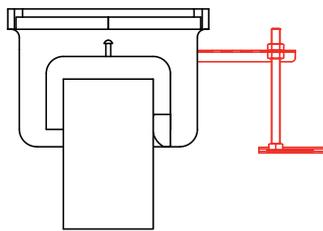
D, SEALING RING

Sealing ring between upper part and/or adaptor and lower part,
Secondary drainage excluded



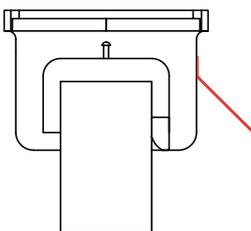
BELA, ASSEMBLING JACKS

three assembling jacks each welded to the side of the floor drain.
Welding height according to specification



BELAF, ASSEMBLING JACKS WITH ADJUSTABLE FOOT

three assembling jacks each welded to the side of the floor drain.
Welding height according to specification, with adjustable foot



MA, WALL ANCHORS

Wall anchors evenly distributed around the perimeter,
for anchoring into concrete

Cover variants

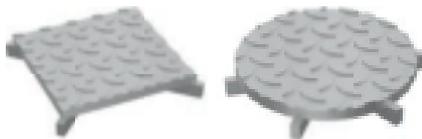


P/10, PLATE COVER – M125/R10*

capable of bearing heavy forklift operations, with 10 mm sheet thickness and reinforced with bracing welded underneath, 10 mm all-round inlet slot

P/5, PLATE COVER – L15/R10*

capable of bearing light traffic, with 5 mm sheet thickness and reinforced with bracing welded underneath, 10 mm all-round inlet slot

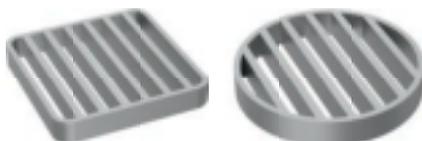


PTÄ/10, CHEQUER - PLATE COVER – M125/R11*

capable of bearing heavy forklift operations, with a raised anti-slip surface, with 10 mm sheet thickness and reinforced with bracing welded underneath, 10 mm all-round inlet slot

PTÄ/5, CHEQUER - PLATE COVER – L15/R11*

capable of bearing light traffic, with a raised anti-slip surface, with 5 mm sheet thickness and reinforced with bracing welded underneath, 10 mm all-round inlet slot



SR, BAR GRATE – M125/R11*

capable of bearing heavy forklift operations, made of 8 mm bars, clearance 18 mm



LR, LASER GRATE – N250/R12*

according to EHEDG guidelines, grate cleanly cut, absolutely seamless and jointless, all corners rounded, t = 20 mm



GR, MESH GRATING – L15-M125/R10-R13*

load capacity according to specifications, mesh size 25 x 25 mm/30 x 10 mm, bearing bars 2, 3 or 4 mm, smooth version R10, anti-slip version R11-R13



B, SHEET METAL – K3/R10*

walk-on cover with sheet thickness 3 mm
(Up to DN 100, other sizes on request as well as individual designs possible)



PRD, PLATE COVER WITH ROLLING SEALING RING – M125/R10*

cover with a rolling sealing ring for models DR-RD, DRS-RD up to DN 150, 71 and 79 until DN 100, water-tight (class Wt) and odor-tight (class Ot) (water pressure >5 mbar) according to EN 1253-4



POD, PLATE COVER WITH O-RING SEALING RING – M125/R10*

cover with an O-ring sealing ring for models 71 and 79 up to DN 100, 88N and 88N-HV, water-tight (class Wt) and odor-tight (class Ot) (water pressure >5 mbar) according to EN 1253-4

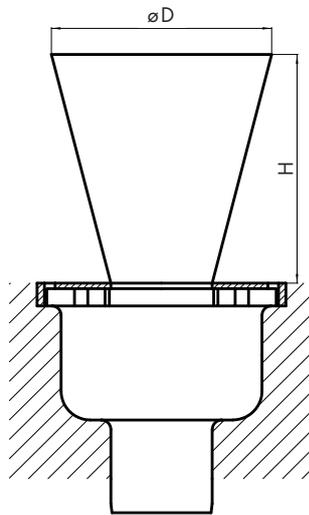
*Load classes according to EN 1253 / Slip resistance according to DIN 51130

**FS, TILE SHELL - K3***

sheet metal to accommodate coatings or tiles

**COVER BOLTED**

all covers, also bar and grating covers, optionally bolted

**TRK, CONICAL FUNNEL (TUNDISH)**

Especially for machine drainage of smaller quantities of wastewater (e.g. leakage water). The normal floor drainage system is retained, filter basket and air trap can still be used.

By simply taking out the funnel cover, the filter basket and air trap are accessible at all times.

GRADE

1.4301 (AISI 304)
1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	For floor drain in square/round design				$\varnothing D$ [mm]	H [mm]	Flow rate [l/s]
	DRS-S	H-S	71-S	79-S			
T-070-TRK					242	250	max. 1.5
T-100-TRK					242	250	max. 2.8
T-150-TRK					315	300	max. 8.2
T-200-TRK					390	350	max. 12.5

SUPPLEMENTARY EQUIPMENT

Lateral pipe socket DN70 DN100

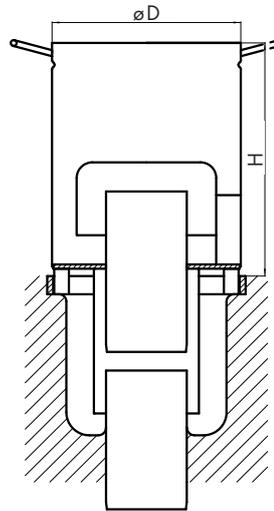
TRKN, FOR FLOOR AREAS WITH NORMAL DRAINAGE

As catchment and splash protection for one or more supply lines, with circumferential slot, width approx. 10 mm, for drainage of the floor area, for floor areas with normal drainage.

TRKG, FOR FLOOR AREAS WITH LOW DRAINAGE

As catchment and splash protection of one or more supply lines, with a smallest possible circumferential slot, width approx. 1.5 mm, to retain the internal foam development.

Cover variants



TRZ, CYLINDRICAL FUNNEL (TUNDISH)

Especially for tank drainage of larger wastewater volumes (shock drainage up to 45 liters/second). With integrated air trap in the funnel and a separate air trap for floor drainage. The normal floor drainage is retained, large buffer volume due to the large cylindrical funnel.

GRADE

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	For floor drain in square/round design				Ø D [mm]	H [mm]	Flow rate [l/s]
	DRS-S	H-S ⁷	71-S	79-S ⁷			
T-100-TRZ					257	500	max. 10
T-150-TRZ					334	500	max. 15
T-200-TRZ					453	500	max. 28
T-250-TRZ					553	500	max. 45

TRZN, FOR FLOOR AREAS WITH NORMAL DRAINAGE

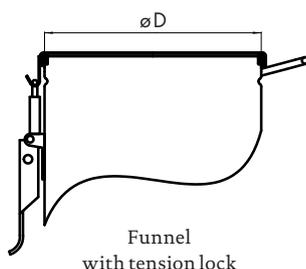
To increase the drainage capacity, in the floor area with a circumferential slot, width approx. 10 mm. Higher drainage quantities on request.

TRZG, FOR FLOOR AREAS WITH LOW DRAINAGE

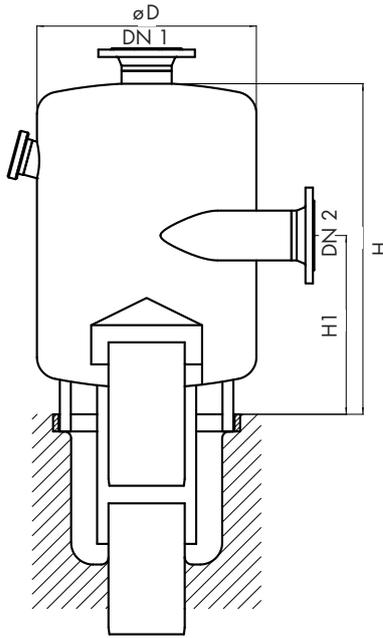
To reduce drainage in the floor area with a smallest possible circumferential slot, width approx. 1.5 mm, to retain internal foam development.

SUPPLEMENTARY EQUIPMENT

- Lateral pipe socket DN70 DN100
- Optional: cover with locking device as splash protection



⁷ Measurement required for the length of the drain socket



ZYA, ABSORBER

for the discharge of pressure drained, hot discharge quantities, in cylindrical design, with a self-contained sealing water seal, for direct drainage via a floor drain

GRADE

1.4301 (AISI 304)
1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)

MODEL	Use as a rule for floor drains of the model series				$\varnothing D$ [mm]	H^* [mm]	H_1^* [mm]	DN1* [mm]	DN2* [mm]
	DRS-S	H-S ⁷	71-S	79-S ⁷					
ZYA-150-500					508	700	340	DN100	DN100
ZYA-200-600					600	1,050	525	DN100	DN100

SUPPLEMENTARY EQUIPMENT

Lateral pipe socket/DN2 DN50 DN70 DN100 DN150

Vapor/fume hood/DN1 DN150 DN200 DN250

Optional: as free standing version

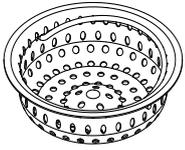
FUNCTIONALITY

Due to a tangential entry into the cylindrical segment, the liquids are forced into a circular path and flow in a downward vortex down into the barrier water seal. Via an integrated air trap, this liquid flows vertically over the bottom drain into the base pipe.

The gas flow escapes (partly by means of pipe fans) via an upward vortex through the overflow opening (suction nozzle from the top soil). The quantity, type and arrangement of the tangential nozzles are determined by customer requirements. The absorber is standardly equipped with sight glass as standard. Other tank diameters, overall heights as well as the inlet height of the individual feed lines or the heights of several feed lines are also available in different types. The required discharge capacity (liters/second) determines, as for the TRZN/TRZG open funnel covers (5.20), the nominal widths of the outlet pipe and thus the size of the floor drain.

⁷ Measurement required for the length of the drain socket
* Standard sizes

Filter basket variants



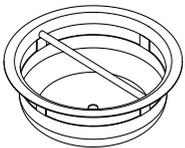
SFLO, PERFORATED FILTER BASKET

Standard filter basket for the DRS and H series, with approx. 10 mm perforations. The filter basket is located above the water seal surface.



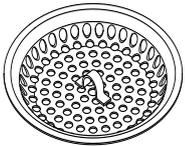
SF, FILTER BASKET WITH SPECIAL PERFORATION FOR INCREASED REQUIREMENTS

Alternative model to the above mentioned perforated filter basket. The perforations are always smaller than 6 mm.



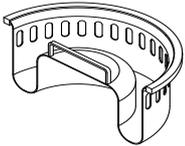
SFUS, FILTER BASKET WITH OVERFLOW SLITS

Alternative model to the above mentioned perforated filter basket. Because there are no perforations in the bottom, finer pieces of dirt, e.g. sand, also remain in the bucket and do not enter the drainage pipe.



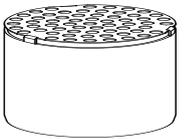
FK/SB, FLAT FILTER BASKET OR OUTLET FILTER

Particularly suitable for low floor drains that do not have a filter basket as standard.



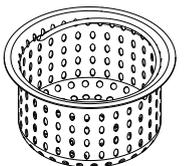
GV/SF, AIR TRAP-FILTER BASKET COMBINATION

Constitute a unit so that they can only be removed together. The filter basket volume is particularly large. The standard perforations in the filter basket are longitudinal, but can be supplied with various perforation shapes if the customer so requires. Model series 71, 79 and 96.



SBS/SBV/SBE, OUTLET FILTER

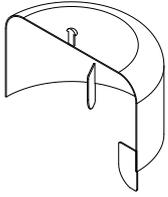
Outlet filter on the outlet connections prevent wilful blocking of outlet pipes. These are available as bolted (SBV) or welded (SBE) options.



SFH, FILTER BASKET WITH INCREASED VOLUME

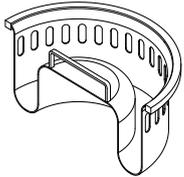
Height 120 mm, other heights possible on request

Air trap variants



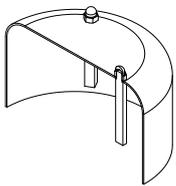
GV, AIR TRAP

Removable part of the drain body which has a water seal to prevent wastewater gases from the outlet entering the inlet. The standpipe is a natural obstacle for the wastewater, the water trap, into which the bell extends, thus creating an air trap. The height of the air trap is between 50 and 60 mm.



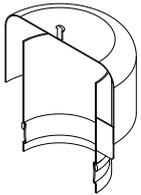
GV/SF, AIR TRAP-FILTER BASKET COMBINATION

Both form a unit so that they can only be removed together. The filter basket volume is particularly large. The standard perforations in the filter basket are longitudinal, but can be supplied with various perforation shapes if the customer so requires.



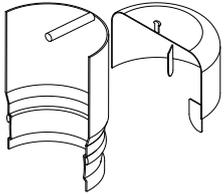
GVV, BOLTED AIR TRAP

The bell is also fitted with screw fastenings to secure it against unauthorised removal. If desired, we can manufacture lockable systems to your specifications.



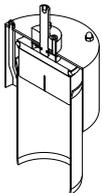
GVS, PLUG-IN AIR TRAP

Removable bell with integrated standpipe, so that the water in the water trap can run out when the air trap is removed. The housing can thus be thoroughly cleaned (without using residual water).



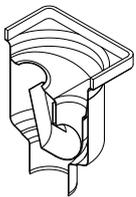
GVSZ, REMOVABLE AIR TRAP WITH SEPARATE BELL

Removable bell as well as pluggable standpipe (two-part) so that the sealing water can drain off when the standpipe is removed. The housing can thus be thoroughly cleaned (without residual water).



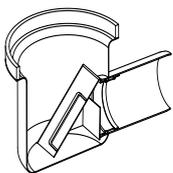
AS, LOCKABLE AIR TRAP

For controlled drainage of wastewater. Prevents resources or hazardous substances accidentally entering the drainage pipes in the production area. Sealed against flow back according to EN 1253-4 (Class Bt) up to 0.5 bar. The closure devices DN 70 and DN 100 are sealed tight up to 4 bar and DN 150 up to 2 bar and have a test certificate. Test certificate shows the fastening mechanisms are tight up to the following pressures: DN 70 and DN 100 4 bar, DN 150 up to 2 bar



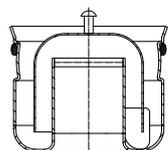
OPTI, AIR TRAP

The flow-optimised, U-shaped air trap results in a high dirt removal rate while requiring little freshwater. DRS-OPTI, H-OPTI series.



GVS, PLUG-IN AIR TRAP FOR HORIZONTAL OUTLET

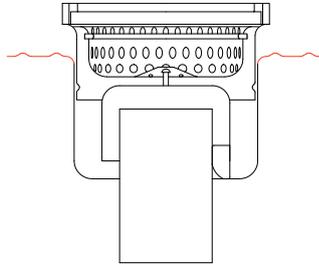
Removable part of the drain body that prevents the passage of wastewater gases from the outlet to the inlet.



RGVS, PLUG-IN PIPE AIR TRAP

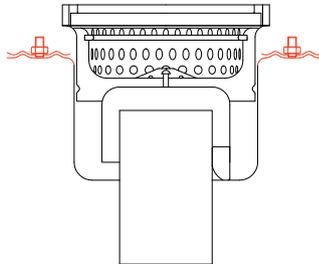
Removable trap with high functionality, which is entirely contained within the floor drain body and incorporates the standpipe internally. When removed there is easy access to the wastewater pipe.

Stainless steel flange variants



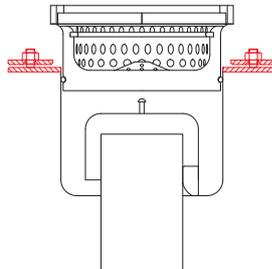
KBF, ADHESIVE FLANGE

According to EN 1253, usually round, for one- and two-part floor drains. Minimum width 100 mm, 1.5 mm thick with two circumferential seepage embossings which enable better adhesion of the liner sheet. Adhesived flanges are usually always fitted with perforations or an inlet slit for secondary drainage. Material depends on the material chosen for the housing.



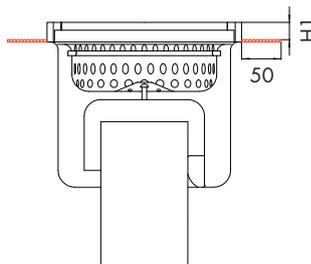
KMF⁸, ADHESIVE- AND CLAMPING FLANGE

According to EN 1253, round version for one- and two-part floor drains. Minimum width of the integral flange 70 mm, lapped flange 60 mm, each 1.5 mm thick with two circumferential seepage embossings, which enable better clamping of the liner sheet. Clamping flanges are usually always fitted with perforations or an inlet slit for secondary drainage. Material depends on the material chosen for the housing.



FDIN⁸, WITH CLAMPING FLANGE ACCORDING TO DIN 18531-18535

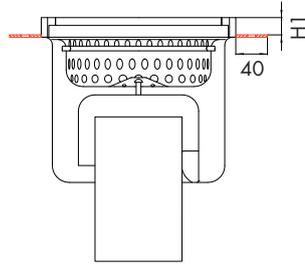
According to DIN 18534-2 for "construction seals", round version for one and two-part floor drains. Minimum width of the integral flange 70 mm, lapped flange 60 mm, each 6.0 mm thick for better clamping of the liner sheet (where there is no water pressure). Clamping flanges are usually always fitted with perforations or an inlet slit for secondary drainage. Material depends on the material chosen for the housing.



HFA, BONDING FLANGE

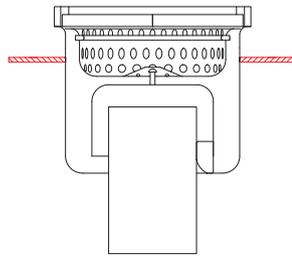
For connection to plastic floorings or tiled floors using the thin-bed method. This Bonding flange is unperforated, in both floor inlet and channel, made impervious to fluids and with a standard width of 50 mm. It can be attached to either a square or round inlet rim of a single-part floor drain, or to the attachment piece of a two-part floor drain. Material depends on the material chosen for the housing.

⁸ The tightening torques are indicated on the clamping flange



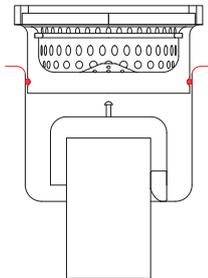
HFLALO, BONDING FLANGE, PERFORATED¹⁴

For better attachment of plastic floorings to the floor drains or channels. The bonding flange is perforated to achieve as good a connection as possible between flooring and drainage element and is usually only tacked. The standard width is 40 mm can be attached to either a square or round inlet rim of a single-part floor drain, or to the attachment piece of a two-part floor drain. Material depends on the material chosen for the housing (not W3-I compliant according to DN 18534-1).



TGF, SUPPORT FLANGE

This flange can bear the heavy load floor inlet via the tapping drill hole, so that it is not pressed through the drill hole. Depending on the load, you can get the support flange in 6.0 mm material thickness and in standard widths of 50, 70 or 100 mm. Material depends on the material chosen for the housing.



AR, ATTACHEMENT EDGE

Two-part floor drains are also available without a bonding flange, but with just an “attachment edge”. Instead of a single-part floor inlet, this variant has the advantage that it does not have to be bonded flush with the upper surface of the finished floor when it is being installed (connected to the piping). Since a secondary drainage cannot be connected, the use of a sealing ring between the lower part of the floor drain and attachment piece is recommended, so that any possible flow back cannot enter the concrete assembly.

DIN 18534-3:2017-07

The flange width on drainage channels, floor drains and built-in parts must be at least 50 mm. This does not apply to factory-fitted sealing collars.

For W0-I to W2-I, a smaller flange width of ≥ 30 mm is permitted when verified by the manufacturer for drain and sealing collar using system-compliant sealing adhesive (reaction resin and 2-component MDS or equivalent) for the connection of adhesive flange to sealing tape or sealing collar and to the AIV-F.

For W3-I, flange widths ≥ 50 mm are required to seal the penetrations. Additional influences (e.g. increased chemical in commercial kitchens) may require larger flange widths.

The overlap of the sealing collar on the adjacent area must be at least 50 mm.

¹⁴ Customized version (not DIN-compliant)

Fire protection floor drains R90/R120

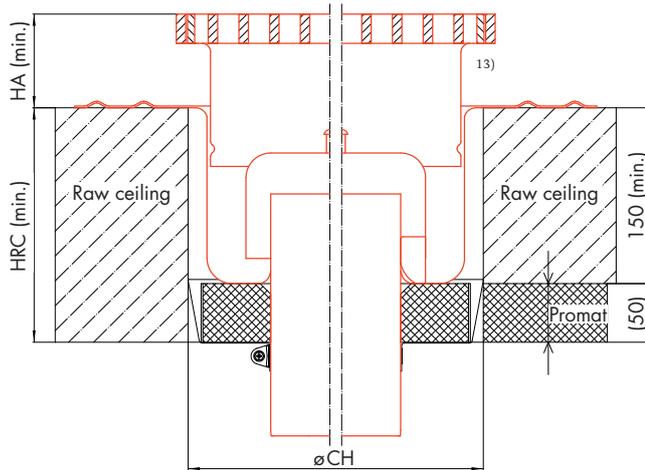
two part/vertical, with and without fire protection cover – according to ABP P 3459/4006-MPA-BS

This fire protection approval is only valid for Germany.

The approval of our fire protection system must be agreed with the local authorities.

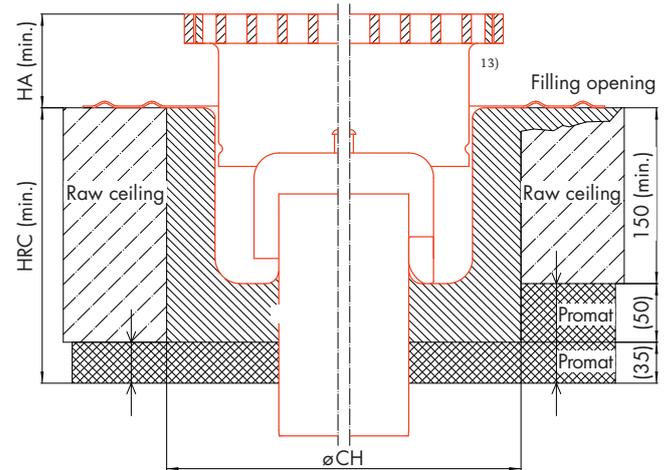
WITH FIRE PROTECTION COVER

Flange variants according to approval



WITHOUT FIRE PROTECTION COVER

Flange variants according to approval



SPECIAL FEATURES:

- Fire protection floor drain with a fire protection cover, therefore no mortaring. No additional components as standard, therefore low installation costs.
- Only one very small core hole (CH) required.
- Fire protection floor drain can be installed from above as standard.
- The floor construction above the raw ceiling can be consideration of the height of the unfinished ceiling (HRC) and the height of the floor structure (HA).

SPECIAL FEATURES

- The core bore can also be created as a square ceiling penetration and, if necessary, must be grouted via filling openings in the mortared into the slab.
- The floor construction above the raw ceiling can be consideration of the height of the unfinished ceiling (HRC) and the height of the floor structure (HA).
- If there is sufficient subcovering of the bottom edge of the floor drain and lower edge of raw ceiling, the lower Promat plate may be omitted. Please inquire about minimum subcovering.

MODEL ⁹	CH [mm]	HRC [mm]	HA [mm]	Fire resistance
H-070-S	200	≥ 200	≥ 60	R90/120 ¹⁰
HK-070-S	220	≥ 200	≥ 60	R90
H-100-S	250	≥ 200	≥ 60	R90/120 ¹⁰
HK-100-S	220	≥ 200	≥ 60	R90
H-150-S	350	≥ 200	≥ 60	R90/120 ¹⁰
79-070-S	300	≥ 200	≥ 40	R90/120 ¹⁰
79-100-S	350	≥ 200	≥ 40	R90/120 ¹⁰
88N-070-S	220	≥ 200	≥ 60	R90
88N-100-S	220	≥ 200	≥ 60	R90
91-070-S	250	≥ 200	≥ 60	R90/120 ¹⁰
91-100-S	250	≥ 200	≥ 60	R90/120 ¹⁰
96-070-S	300	≥ 200	≥ 40	R90/120 ¹⁰
96-100-S	350	≥ 200	≥ 40	R90/120 ¹⁰

MODEL ⁹	CH [mm]	HRC [mm]	HA [mm]	Fire resistance
H-070-S	200	≥ 200	≥ 60	R90/120 ¹⁰
HK-070-S	250	≥ 200	≥ 60	R90
HK-070-S	250	≥ 235	≥ 60	R120
H-100-S	300	≥ 235	≥ 46.5	R90/120 ¹⁰
HK-100-S	250	≥ 200	≥ 60	R90
HK-100-S	250	≥ 235	≥ 60	R120
H-150-S	350	≥ 270	≥ 60	R90/120 ¹⁰
79-070-S	300	≥ 200	≥ 40	R90/120 ¹⁰
79-100-S	350	≥ 200	≥ 40	R90/120 ¹⁰
88N-070-S	220	≥ 200	≥ 60	R90
88N-100-S	220	≥ 200	≥ 60	R90
91-070-S	300	≥ 230	≥ 60	R90/120 ¹⁰
91-100-S	300	≥ 230	≥ 60	R90/120 ¹⁰
96-070-S	300	≥ 200	≥ 20	R90/120 ¹⁰
96-100-S	350	≥ 200	≥ 20	R90/120 ¹⁰

⁹ The approval is based on an existing water seal, an installed cover and, if necessary, a filter basket.

¹⁰ R120 on request

¹³ Graphical illustration with bar grate cover, further cover variants see page 44/45

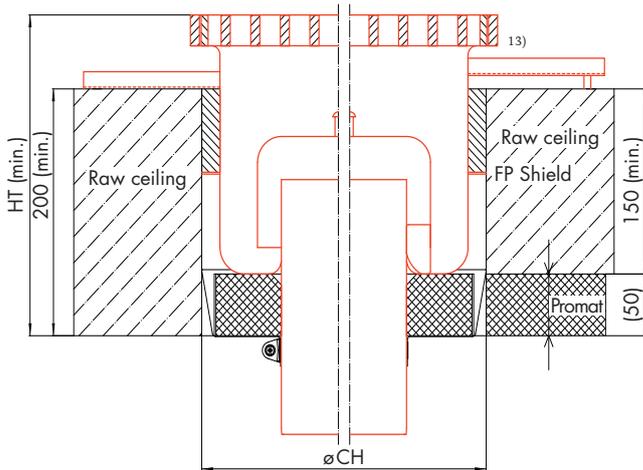
Fire protection floor drains R90

one part/vertical, with fire protection cover – according to ABP P 3459/4006-MPA-BS

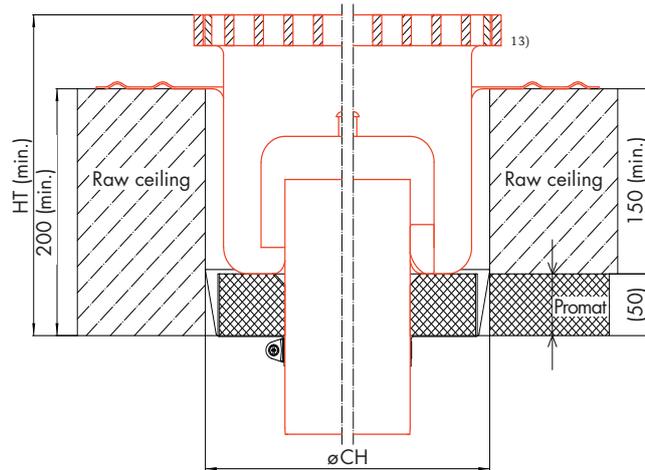
This fire protection approval is only valid for Germany.

The approval of our fire protection system must be agreed with the local authorities.

WITH FIRE PROTECTION COVER
with mounting lug



WITHOUT FIRE PROTECTION COVER
Flange variants according to approval



SPECIAL FEATURES:

- Fire protection floor drain with a fire protection cover, and a fire protection shield to fix the partial mortar.
- Only one very small core hole (CH) required.
- No additional components as standard and can be installed completely from above, thus reducing installation costs.
- Narrow mounting lugs, arranged at 3 x 120°, permit required mortaring up to the fire protection shield.
- The floor construction above the raw ceiling can be considered in terms of the total height (HT) executed individually.
- The total height (HT) can be increased as required above and below the raw ceiling.

SPECIAL FEATURES:

- Only one small core hole (CH) required.
- No additional components as standard and can be mounted completely from above, thus reducing installation costs.
- The floor construction above the raw ceiling can be considered in terms of the total height (HT) executed individually.
- The total height (HT) can be increased as required above and below the raw ceiling.

MODEL ⁹	CH [mm]	HT [mm]	Fire resistance	MODEL ⁹	CH [mm]	HT [mm]	Fire resistance
DR-070-E/RD-S	200	≥ 260	R90	HYG-100-E/RD-S	250	≥ 260	R90
DRAS-070-E/RD-S	200	≥ 260	R90	71-070-E/RD-S	300	≥ 260	R90
DR-100-E/RD-S	250	≥ 260	R90	71AS-070-E/RD-S	300	≥ 260	R90
DRAS-100-E/RD-S	250	≥ 260	R90	71-100-E/RD-S	350	≥ 260	R90
DR-150-E/RD-S	350	≥ 260	R90	71AS-100-E/RD-S	350	≥ 260	R90
DRAS-150-E/RD-S	350	≥ 260	R90	88N-070-E/RD-S	220	≥ 260	R90
DRS-070-E/RD-S	200	≥ 260	R90	88N-100-E/RD-S	220	≥ 260	R90
DRSK-070-E/RD-S	220	≥ 260	R90	91-070-E/RD-S	250	≥ 260	R90
DRSAS-070-E/RD-S	200	≥ 260	R90	91-100-E/RD-S	250	≥ 260	R90
DRS-100-E/RD-S	250	≥ 260	R90	96-070-E/RD-S	300	≥ 260	R90
DRSK-100-E/RD-S	220	≥ 260	R90	96-100-E/RD-S	350	≥ 260	R90
DRSAS-100-E/RD-S	250	≥ 280	R90	97-070-E/RD-S	250	≥ 260	R90
DRS-150-E/RD-S	350	≥ 260	R90	97-100-E/RD-S	250	≥ 260	R90
DRSAS-150-E/RD-S	350	≥ 280	R90				

⁹ The approval is based on an existing water seal, an installed cover and, if necessary, a filter basket.
¹³ Graphical illustration with bar grate cover, further cover variants see page 44/45

Fire protection floor drains R90/R120

one part/vertical, without fire protection cover – according to ABP P 3459/4006-MPA-BS

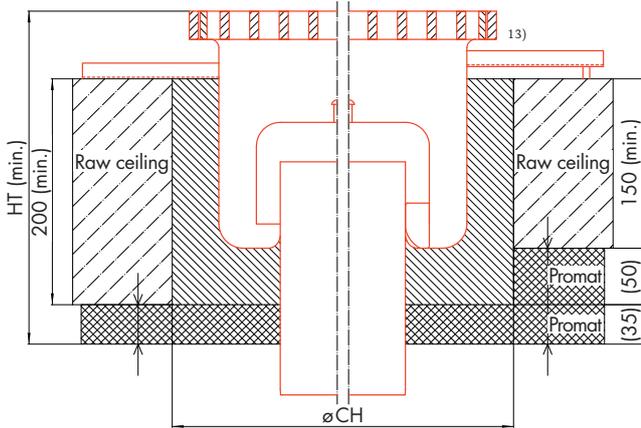
This fire protection approval is only valid for Germany.

The approval of our fire protection system must be agreed with the local authorities.

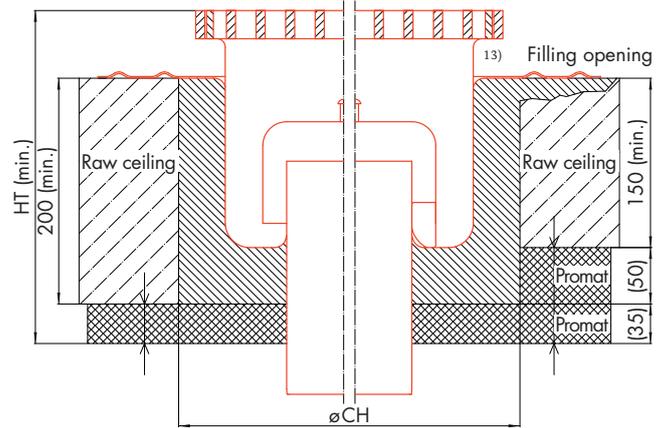
R90/R120

5.62

WITHOUT FIRE PROTECTION COVER
with mounting lug



WITHOUT FIRE PROTECTION COVER
Flange variants according to approval



SPECIAL FEATURES:

- Narrow mounting lugs, arranged 3 x 120°, allow for easy simple mortaring.
- The floor construction above the raw ceiling can be consideration of the total height (HT) executed individually.
- The total height (HT) can be increased as required above and below the raw ceiling.
- If there is sufficient sub-covering from the base of the floor drain the lower Promat plate can be omitted if necessary. Please enquire about minimum subcovering.

SPECIAL FEATURES:

- The core hole must be mortared over the filling openings in the raw ceiling.
- The floor construction above the raw ceiling can be consideration of the total height (HT) executed individually.
- The total height (HT) can be increased as required above and below the raw ceiling.
- If there is sufficient sub-covering from the base of the floor drain the lower Promat plate can be omitted if necessary. Please enquire about minimum subcovering.

MODEL ⁹	CH [mm]	HT [mm]	Fire resistance	MODEL ⁹	CH [mm]	HT [mm]	Fire resistance
DRAS-070-E/RD-S	200	≥ 260	R90	71AS-070-E/RD-S	300	≥ 260	R90
DR-100-E/RD-S	300	≥ 220	R90	71-100-E/RD-S	350	≥ 260	R90
DRAS-100-E/RD-S	300	≥ 255	R90	71AS-100-E/RD-S	350	≥ 260	R90
DR-150-E/RD-S	350	≥ 260	R90	71-150-E/RD-S	400	≥ 240	R90 ¹¹
DRAS-150-E/RD-S	350	≥ 300	R90	71AS-150-E/RD-S	400	≥ 275	R90 ¹¹
DRS-070-E/RD-S	200	≥ 260	R90/120 ¹⁰	88N-070-E/RD-S	220	≥ 260	R90
DRSK-070-E/RD-S	220	≥ 260	R90	88N-100-E/RD-S	220	≥ 260	R90
DRSAS-070-E/RD-S	200	≥ 270	R90	91-070-E/RD-S	300	≥ 215	R90/120 ¹⁰
DRS-100-E/RD-S	300	≥ 255	R90/120 ¹⁰	91-100-E/RD-S	300	≥ 225	R90/120 ¹⁰
DRSK-100-E/RD-S	220	≥ 260	R90	96-070-E/RD-S	300	≥ 260	R90
DRSAS-100-E/RD-S	300	≥ 300	R90	96-100-E/RD-S	350	≥ 260	R90
DRS-150-E/RD-S	350	≥ 300	R90	96-150-E/RD-S	400	≥ 265	R90 ¹¹
DRSAS-150-E/RD-S	350	≥ 335	R90	97-070-E/RD-S	300	≥ 200	R90
HYG-100-E/RD-S	300	≥ 260	R90/120 ¹⁰	97-100-E/RD-S	300	≥ 200	R90
71-070-E/RD-S	300	≥ 260	R90	2001-100-E/RD-S	300	≥ 200	R90 ¹¹

⁹ The approval is based on an existing water seal, an installed cover and, if necessary, a filter basket.

¹⁰ R120 on request

¹¹ R90 on request, not all model combinations available

¹³ Graphical illustration with bar grate cover, further cover variants see page 44/45



Fire protection floor drains

- The drain body must be installed in the ceiling in accordance to the approval. Minimum thickness of the raw ceiling (≥ 200 mm according to approval or customer specification).
- In addition, Option B requires a fire protection building board (Promatect-LS or equivalent) must be installed below the ceiling. The required panel thickness is 35 mm. If there is sufficient subcovering from the lower edge of the floor drain to the lower edge of the raw ceiling, this can be omitted if necessary. Minimum underlay please inquire.
- The diameter of the core hole in the ceiling depends on the casing diameter (see approval or catalog specification), Core holes must be made dust-free.
- The distance of the component opening to be closed to other openings or installations must comply with the specifications in the below table:

Distance of the pipe penetration seal to	Size of the adjacent openings	Distance between the openings
- other cable or pipe penetration seals	one/both opening(s) $> 40 \times 40$ cm	≥ 20 cm
	both openings $\leq 40 \times 40$ cm	≥ 10 cm
- other openings or fixtures	one/both opening(s) $> 20 \times 20$ cm	≥ 20 cm
	both openings $\leq 20 \times 20$ cm	≥ 10 cm

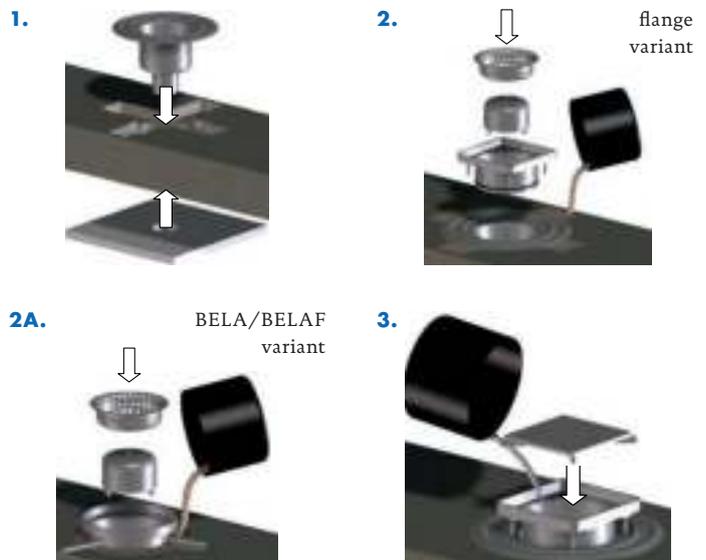
OPTION A: PROTECTION COVER

1. Assemble the lower part respectively the floor drain, the fire protection ring, the protection cover and the hose clamp.
2. Make the core hole, remove the dust completely and insert the assembled lower part respectively the floor drain.
- 2A. For the BELA/BELAF variant with one part floor drains (without flange), the annular gap between the drain body and the building component reveal up to the fire protection filled with dimensionally stable, non-combustible building materials such as materials such as mortar, concrete or gypsum must be sealed.
3. Insert upper part (only for two-part floor drains), air trap and, if necessary, filter basket.
4. Fill water seal, insert lid.

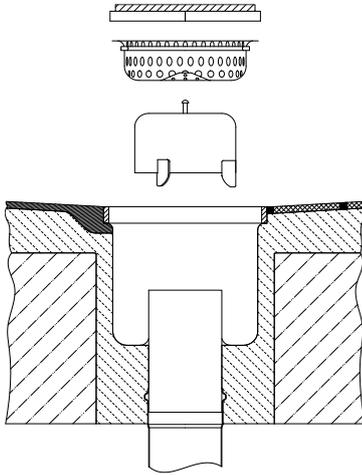


OPTION B: WITH MORTAR

1. Create core hole and sprue openings (width: approx. 80 mm, height: approx. 40 mm, sprue openings not necessary for BELA/BELAF variant), insert floor drain respectively lower part, place Promatect-LS fire protection cover and fix in place using the screw set supplied. If there is sufficient underlay, conventional formwork can also be used.
2. Annular gap between floor drain and the component reveal and, if applicable, sprue openings, must be filled with dimensionally stable, non-combustible building materials, e.g. mortar, concrete or gypsum, then the upper part (only for two-part floor drains), air trap and, if necessary, filter basket.
3. Fill water seal, insert lid.

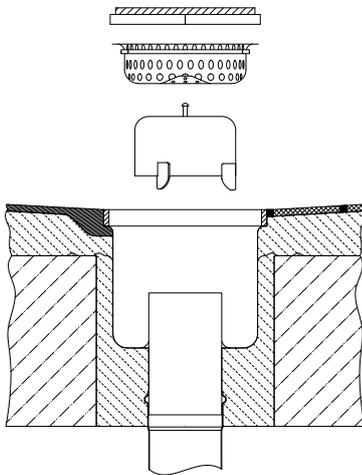


Floor drain

one part¹²

INSTALLATION IN FLOORS WITHOUT WATERPROOFING LAYER

1. Place the floor drain into position, inserting the outlet pipe into the pipe collar or connection fitting.
2. Fix the floor drain at the right height and in the correct position, if necessary affixing it to the concrete slab or fix it by pouring a concrete encasement.
3. Install expansion joint detail around the perimeter of the floor drain to enable a good seal to be formed when the final floor coating is applied. Cover the floor drain to prevent debris entering it. Pour the concrete and ensure that the concrete is well compacted, supporting the drain.
4. When attaching a plastic floor covering (e.g. epoxy resin, acrylic etc.) to the edge of the drain we recommend a wedge-shaped attachment zone in the area of the drain edge (see the left hand side of the schematic sketch).
5. At the completion of the project construction phase, clean the floor drain and install the accessories, baskets, traps, grates.

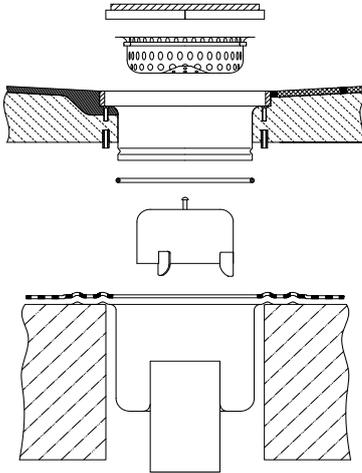


INSTALLATION IN FLOORS WITH WATERPROOFING LAYER

1. Place the floor drain into position, inserting the outlet pipe into the pipe collar or connection fitting.
2. Fix the floor drain at the right height and in the correct position, if necessary affixing it to the concrete slab or fix it by pouring a concrete encasement.
3. Only in the case of floor drains with bonded flange:
Attach the seal to the bonded flange in accordance with the liner sheet manufacturer's instructions. Pay attention that the perforations are not glued into the vertical wall of the inlet body or the draining off of the seepage water (secondary drainage) is not guaranteed.
4. Install expansion joint detail around the perimeter of the floor drain to enable a good seal to be formed when the final floor coating is applied. Cover the floor drain to prevent debris entering it. Pour the concrete and ensure that the concrete is well compacted, supporting the drain.
5. When attaching a plastic floor covering (e.g. epoxy resin, acrylic etc.) to the edge of the drain we recommend a wedge-shaped attachment zone in the area of the drain edge (see the left hand side of the schematic sketch).
6. At the completion of the project construction phase, clean the floor drain and install the accessories, baskets, traps, grates.

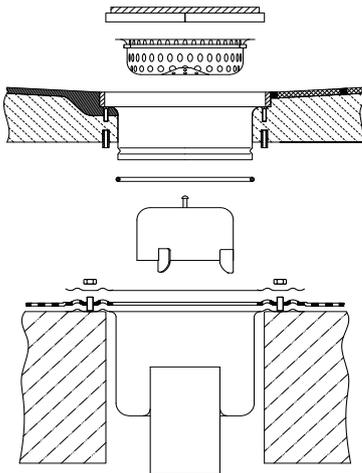
¹² For fire protection requirements, please observe the relevant installation guidelines.

Floor drain

two part¹²

INSTALLATION IN FLOORS WITH SEALING LAYER WITH ADHESIVE FLANGE

1. Insert the lower part of the floor drain in the provision for the drain. Note: The diameter of the provision for the drain should be about 10–15 mm larger than the floor drain body diameter!¹²
2. Fix the lower part of the floor drain in position.
3. Apply the seal to the bonded flange in accordance with the liner sheet manufacturer's instructions.
4. Before pouring the floor screed, set the floor drain upper part in the lower part and fix it at the right height (using the adjusting screws) and direction (important when using square upper parts). When the liner sheet is to be drained via the annular gap between the lower part of the floor drain and the upper part (secondary drainage), the sealing ring should not be used. If the annular gap is to be closed to prevent flow back, an O-ring should be placed in the bead of the upper part before it is inserted in the lower part. Here the O-ring should be inserted into the lower part so deep that a seal is assured. If this is not the case a higher upper part is needed.
5. Install expansion joint detail around the perimeter of the floor drain to enable a good seal to be formed when the final floor coating is applied. Cover the floor drain to prevent debris entering it. Pour the concrete and ensure that the concrete is well compacted, supporting the drain. When attaching a plastic floor covering (e.g. epoxy resin, acrylic etc.) to the edge of the drain we recommend a wedge-shaped attachment zone in the area of the drain edge (see the left hand side of the schematic sketch). **In the case of upper part with an Bonding flange for thin bed sealing this flange should be sealed in accordance with the floor layer's requirements.**
6. At the completion of the project construction phase, clean the floor drain and install the accessories, baskets, traps, grates.



INSTALLATION IN FLOORS WITH SEALING LAYER WITH ADHESIVE- AND CLAMPING FLANGE

1. Insert the lower part of the floor drain in the provision for the drain. Note: The diameter of the provision for the drain should be about 10–15 mm larger than the floor drain body diameter!¹²
2. Fix the lower part of the floor drain in position.
3. Install expansion joint detail around the perimeter of the floor drain to enable a good seal to be formed when the final floor coating is applied. Cover the floor drain to prevent debris entering it. Pour the concrete and ensure that the concrete is well compacted, supporting the drain. Then attach the clamp flange and tighten the nut. Observe that the maximum torque is not exceeded.
4. Before pouring the floor screed, set the floor drain upper part in the lower part and fix it at the right height (using the adjusting screws) and direction (important when using square upper part). When the liner sheet is to be drained via the annular gap between the lower part of the floor drain and the upper part (secondary drainage), the sealing ring should not be used. If the annular gap is to be closed to prevent flow back, an O-ring should be placed in the bead of the upper part before it is inserted in the lower part. Here the O-ring should be inserted into the lower part so deep that a seal is assured. **If this is not the case a higher upper part is needed.**
5. Apply the planned floor structure with a clean edge to the floor drain. Pay attention to ensure a good lining of the drain edge. When attaching a plastic floor covering (e.g. epoxy resin, acrylic etc.) to the edge of the drain we recommend a wedge-shaped attachment zone in the area of the drain edge (see the left hand side of the schematic sketch). **In the case of attachment pieces with Bonding flange for thin mortar bed sealing this flange has to be sealed in line with the floor layer's requirements.**
6. At the completion of the project construction phase, clean the floor drain and install the accessories, baskets, traps, grates.

¹² For fire protection requirements, please observe the relevant installation guidelines.

Cleaning and care instructions for stainless steel

The instructions are provided as a general guide:

Warranty claims and claims for damages cannot be derived from this.

1. INTRODUCTION

It is well known that stainless steel has far greater resistance to corrosion than non-alloyed and low alloy steels. They are resistant to numerous aggressive media, and do not require any additional surface protection. Deposits on the surface of the stainless steel can however impair the corrosion resistance, which is why the stainless steel products you have purchased should receive a basic amount of cleaning and care.

2. RESISTANCE TO CORROSION

The alloy constituents included in the material result in a passive layer, only a few atoms thick, being created on the surface. The impact of oxygen in air and water results in this passive layer being regenerated time and again. Prerequisite for this is a bare metallic surface that is free of impurities. With proper selection and processing, stainless steels are materials of construction used in chloride-containing waters are permanently resistant to corrosion. As a rule, therefore, stainless austenitic steels, of the materials listed in materials designated as steel group 1 (e.g. 1.4301, 1.4307, 1.4541) or the materials designated as steel group 2 (e.g. 1.4401, 1.4404, 1.4571), are used. The decision in favor of one or the other type is primarily determined by the chloride ion content of the water in conjunction with the structural properties. Where higher salt concentrations and hot water temperatures, higher alloyed stainless steel can also be used. Higher alloyed stainless steels from groups 3 and 4, such as 1.4462, 1.4439 or 1.4529 and possibly even 1.4562, may be required.

3. INITIAL CLEANING

Initial basic cleaning is usually carried out after building work has been completed, and before the products have been put into initial operation by the developer. Stainless steel surfaces are often effectively protected by **plastic film** during transport, storage and assembly. This protective film does not however provide permanent protection against light and ultraviolet radiation, and are difficult to remove in place for a longer period of time. Remnants of protective film that are difficult to remove are left on the surface. It is therefore recommended that the protective film is removed as soon as it is no longer needed for protection on the building site, and within a few weeks of delivery at the latest. The film should always be peeled off from top to bottom. In order to avoid material sticking to the surface that could prevent creation of the passive layer, any remnants of film should be removed using warm water and a gentle detergent. **Lime and mortar splashes** can be removed with diluted phosphoric acid, and the area then thoroughly rinsed with a generous amount of clear water. Using demineralised water counteracts the creation of lime stains. Several detergent manufacturers offer special products for this purpose. Under no circumstances should you use cement stain remover for tiles or diluted hydrochloric acid. If either of these products should find its way onto the stainless steel surface, it must be immediately removed with plenty of clear water. Other building contractors, e.g. tile layers,

are not always aware of the damage that lime stain remover and diluted hydrochloric acid can cause to stainless steel. **Iron particles** from tools, scaffolding and transportation equipment must be removed without delay. Grinding dust, swarf and welding splatter from work being done on construction steel in the vicinity of work with stainless steel can accelerate rusting if they are deposited on stainless steel. This can result in localised penetration of the passive layer of the stainless steel causing pitting corrosion. If these contaminations are recognised in time, they can be removed using standard household (non-ferrite) cleaning pads or special cleansing products. Subsequent rinsing with plenty of clear water will clean the surface and give the material the chance to rebuild the passive layer. If corrosion has already started, a mechanical (or preferably stain) treatment of the surface is unavoidable. Stains are also available in paste form for local application. It is important to observe all environmental protection rules and the manufacturer's health and safety instructions when using such products. Specialised firms will often carry out such work on site on a subcontract basis. Treatment with stain will fully restore the original corrosion protection of stainless steel. This can however result in optical changes to the surface, so that it is necessary to finish the surface by sanding and polishing it. It is therefore recommended that contamination by tramp iron should be avoided from the very start, e.g. by using protective film or by carrying out all stainless steel work after work with construction steel has been completed.

4. ROUTINE CLEANING

Where stainless steel is used outside, the cleansing effect of rain is usually sufficient to prevent damaging deposits. Surfaces that cannot be reached by rain should be cleaned to ensure that there is no build up of contamination from air pollution. Cleaning stainless steel is particularly important in coastal and industrial surroundings where there can be a concentration of chlorides and sulphur dioxide (this also includes the undersides of horizontal profiles) for which the chosen type of steel is not designed. Where stainless steel is **used inside**, it is especially important to avoid and clean fingerprints. Stainless steel is available with a great variety of surfaces, some of which are specially designed for use in areas frequented by the public. It is possible to minimise later cleaning costs by making the right choice of surface during the planning phase. Fingerprints are an initial phenomenon with the popular brushed and sanded surfaces. Their visibility is significantly reduced after several cleaning sequences.

5. CLEANING AGENTS

A solution of washing up liquid is usually sufficient for removing **fingerprints**. Some manufacturers of cleaning materials offer special products whose cleansing effect is enhanced by a care product. Such cleaning agents completely remove fingerprints, leaving behind a fine film which gives the treated surfaces a homogenous appearance.

After cleaning, the surface should be polished with a dry cloth.

Bright annealed and mirror polished surfaces can be treated with chloride-free glass cleaners. **Stubborn dirt** can be removed using standard household cleansing milk, which also removes lime stains and minor discolorations. Subsequent rinsing with demineralised water (as used for steam irons, and usually available in supermarkets) prevents lime stains being created as it dries off. The surface should then be given a dry polishing. Scouring powder is not suitable, as it will scratch the surface. Very **oily and greasy dirt** can be removed using alcohol-based cleaning agents and solvents, e.g. rectified spirit, isopropyl alcohol or acetone, which are quite safe for stainless steel. Here it is necessary to make sure that the cleaning process does not spread the partially dissolved dirt across the whole surface. Cleaning must therefore be repeated using fresh cloths until all traces have been removed.

Special alkaline and solvent-based cleaning agents are available for **paint and graffiti**. Knives and scrapers should be avoided, because they will scratch the surface. Seriously neglected surfaces can also be treated with polish, such as that used for looking after chrome on cars. Another option is rubbing compound normally used for aged car paint, whereby it is necessary to take care because it can leave scratches on stainless steel.

Another alternative is special stainless steel cleaner that contains phosphoric acid, as recommended above for the removal of tramp iron contamination. When using this cleaner, it is important that the whole surface is treated to avoid staining. Whenever cleaning is carried out it is always necessary to observe environmental and health and safety rules.

Cleaning agents that are unsuitable for stainless steel include:

- Products containing chlorides, especially products containing hydrochloric acid,
- Bleaches (in case of accidental application or bleach splashes the stainless steel should be generously rinsed with clear water),
- Silver polish.

6. CLEANING UTENSILS

A **damp cloth** or leather is usually sufficient to remove fingerprints. Standard household (**iron-free**) **cleaning pads** are used for more stubborn dirt. On no account should abrasive pads that contain iron, steel wool or steel brushes be used, because they will transfer rusting tramp iron to the surface of the stainless steel. **Soft nylon brushes** are suitable for cleaning surfaces that have been roller-patterned. Steel brushes (especially carbon steel brushes) cause damage.

Where the surfaces have been brushed or sanded (2G, 2J, 2K in accordance with DIN 10088/3) they should always be brushed in the direction they have been brushed/sanded, and not across the “grain”. When cleaning with water, the surfaces – especially in hardwater areas – should then be **dry wiped** to avoid creating lime stains. Demineralised water helps avoid this problem. To prevent tramp iron contamination you must not use any cleaning utensils that have been previously used for “normal” steel. You are recommended to keep **separate cleaning utensils** for use on stainless steel surfaces.

7. CLEANING INTERVALS

Cleaning intervals for stainless steel used indoors are basically the same as for any other surfaces. To keep the amount of work and costs to a minimum, the surfaces should always be cleaned before larger-scale soiling has a chance to build up. In outside areas, stainless steel can be subjected to a range of corrosive conditions, e.g.

- Coastal atmosphere,
- Factory fumes,
- Chloride-containing spray,
- Air pollution and traffic fumes.

These factors can lead to discoloration over time. Cleaning agents that contain phosphoric acid will reliably remove any discoloration. Where very high optical requirements are involved or where the stainless steel is in a corrosive atmosphere, a proven rule of thumb is to clean the surface as often as you would clean glass surfaces. Routine cleaning in low-contamination environments should be carried out every few years. Where there is more serious contamination, especially in covered areas not reached by rain, the surfaces should be cleaned at intervals of several months.

8. SOURCE

Leaflet 965 – Cleaning and care of stainless steel in the building industry (German Stainless Steel Information Office, Internet 2009)

ACCESSORIES



SPANNER FOR FLOOR DRAINS SEALED USING A SPINDLE

Order no. ZM1005706



LIFTING HANDLE FOR AIR TRAP

Order no. BG1001343



VACUUM LIFTING TOOL FOR TIGHT SEALED COVERS

Order no. K1005108



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