I-DRAIN®

Design | Technology

I-DRAIN®- Shower drains

tselcon®
TSELIS CONSTRUCTION

EN

SWAROVSKI

Be inspired

I-DRAIN® offers you ingenious and innovative shower drains to take care of water drainage from your shower space, expertly and elegantly.

With a built-in height of 54 mm* for its Linear Drains, I-DRAIN® offers the smallest built-in height on the market. This makes it ideally suitable for both renovations and new builds.

The I-DRAIN® grating cleverly fits the tile height and comes with a tile frame to ensure the perfect and safe placing of your tiles. The I-DRAIN® is suitable for tiles in all widths and the slope only has to be laid in one direction. Thanks to the removable siphon with hair grating your drain can be cleaned in no time at all.

The I-DRAIN® is a high-tech, low-maintenance shower facility designed by skilled professionals to ensure safe and easy installation.

I-DRAIN® is the ultimate technical design element for a true walk-in shower.

54 mm*

It has the lowest built-in height on the market, including siphon.
*From 54 mm

Inspected

Our customers require no less than an absolute guarantee that their shower floor is 100% watertight. Intensive ageing tests allow us to offer cast-iron guarantees of the quality and certainty of the watertightness of the I-DRAIN® Linear Drains.

Ageing test for watertight adhesion

I-DRAIN® innovates the design of its shower drains for tiled walk-in showers by applying a waterproofing membrane in the factory.
Intensive product testing means I-DRAIN® is the first shower drain brand worldwide that can demonstrate 25 years of watertightness for adhesion. In so doing I-DRAIN® guarantees that the joint between the waterproofing membrane and the drain is guaranteed against material ageing for 25 years.

SP Sweden test report

The SP Technical Research Institute of Sweden has accurately established the potential ageing of the adhesion due to repeated use and exposure to ambient factors.

Over 12 weeks the drain was tested with adhered membrane in a saturated water solution - the alkaline environment - at a temperature of 70 °C. This corresponds to 25 years of exposure in a normal shower environment. I-DRAIN® passed this test with flying colours.

Details

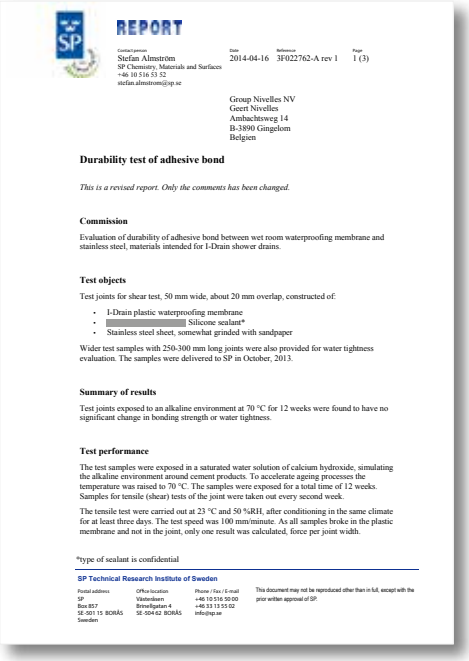
You can find more information about the I-DRAIN® Linear and the I-DRAIN® Linear+ along with the full test report and the technical details of the adhesion at www.i-drain.com.

10 YEAR WARRANTY

TÜV NORD
TÜV Nederland QA B.V.
ISO 9001

Prüfbericht

Test report



REPORT

Durability test of adhesive bond

This is a revised report. Only the comments has been changed.

Commission

Evaluation of durability of adhesive bond between wet room waterproofing membrane and stainless steel, materials intended for I-Drain shower drains.

Test objects

Test joints for shear test, 50 mm wide, about 20 mm overlap, constructed of:

- I-Drain plastic waterproofing membrane
- [redacted] Silicone sealant*
- Stainless steel sheet, somewhat grinded with sandpaper

Wider test samples with 250-300 mm long joints were also provided for water tightness evaluation. The samples were delivered to SP in October, 2013.

Summary of results

Test joints exposed to an alkaline environment at 70 °C for 12 weeks were found to have no significant change in bonding strength or water tightness.

Test performance

The test samples were exposed in a saturated water solution of calcium hydroxide, simulating the alkaline environment around cement products. To accelerate ageing processes the temperature was raised to 70 °C. The samples were exposed for a total time of 12 weeks. Samples for tensile (shear) tests of the joint were taken out every second week.

The tensile test were carried out at 23 °C and 50 %RH, after conditioning in the same climate for at least three days. The test speed was 100 mm/minute. As all samples broke in the plastic membrane and not in the joint, only one result was calculated, force per joint width.

*type of sealant is confidential

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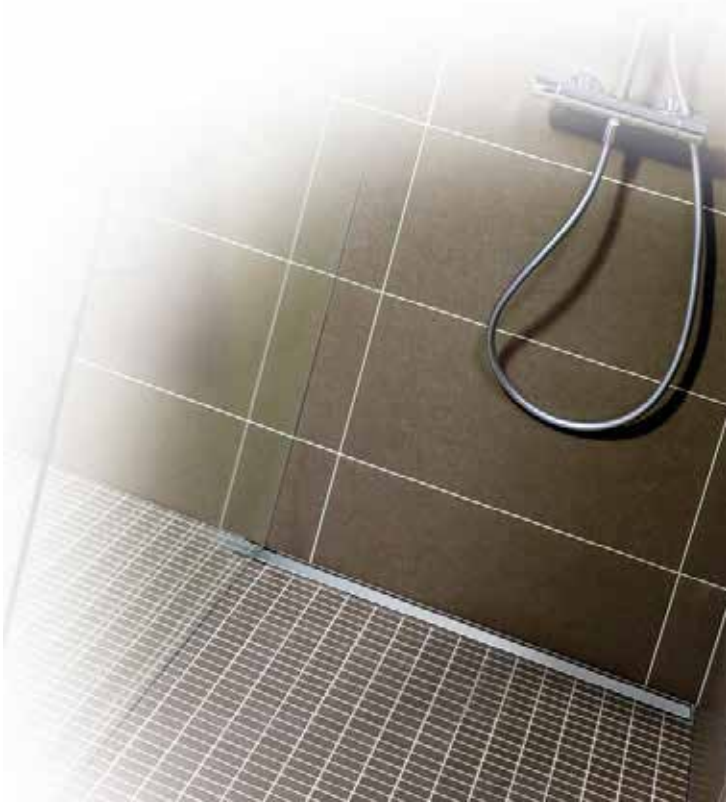
I-DRAIN® : The barrier-free shower experience.

Where technique and design meet.

Start your day feeling free and beloved. Imagine yourself enyoing a wonderfull shower in a curbless shower space that seamlessly merges with its surroundings, that harmonises with the water on your skin and the tile floor beneath your feet. Currently, most innovating and advanced shower solutions are found below the bathroom floor.
With the I-DRAIN® shower drains you give your bathroom an absolutely seamless sight line. I-DRAIN® offers a designer solution for renovations and construction that is easily installed, ensuring a 100% waterproof shower floor that is very easy to maintain.
What's left is a carefree feeling of serenity and satisfaction.



What makes I-DRAIN® unique

1 Quality and reliability: Belgian craftmenship

2 Guaranteed waterproof.

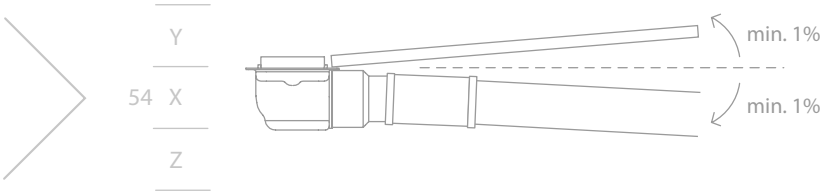
I-DRAIN® chooses to work with sustainable high-end materials
- Drain – Stainless steel 316
- Gratings - Stainless steel 304 (optional stainless steel 316)
- Siphon and grating support - ABS

*Read the technical information for an overview of all available materials.

I-DRAIN® is manufactured from stainless steel 316 and is deep-drawn from one piece. Since there aren't any welding seams, there is also no chance for welding split corrosion, and the chance for internal leaks is eliminated. This also makes the I-DRAIN® extremely easy to clean.

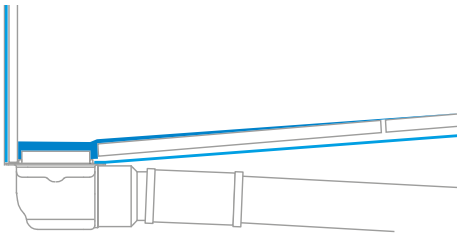
3 Design solution, highly suitable for renovation and construction: extremely low installation height of 54 mm* for the lowest built-in result!

Drain installed against the wall
Fitted size =
height of the drain (x)
+ height of the drop
of the tiled floor (y)
+ height of the drop
of the drainage pipe (z)



A number of factors must be taken into account for the calculation of the built-in size of the drain: the height of the drain, the floor drop and the drainage pipe drop. The sum of these elements makes up the total built-in height and is shown in the sketch above. This is valid for all drains available on the market.

4



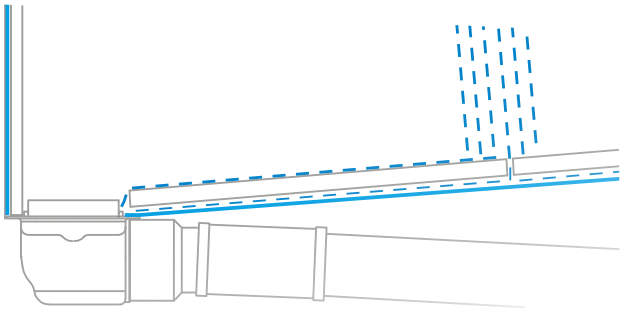
A barrier-free shower experience is guaranteed.

Despite its minimal built-in height the I-DRAIN® offers an extremely high water capacity. A model with single siphon has a drainage capacity of 26.4 l/min. A model with double siphon offers 45 l/min. as standard. Connecting the drains as good as doubles the capacity, giving the I-DRAIN® an extremely high water capacity without taking up any more space.

5

Many years of carefree use of your barrier-free walk-in shower: DDS.

In the event of joint wear it is possible that the water passes through the joints and arrives on the water sealing mat under the tiles. The I-DRAIN® is designed so this water goes back into the drain and does not remain under the tiled floor.



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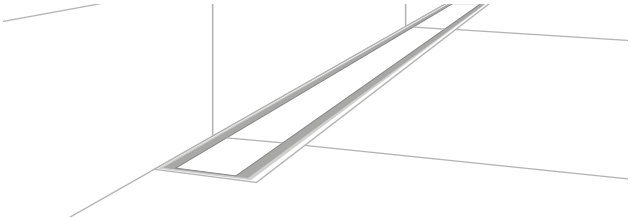


Quick and easy installation of every tile or floorcovering of one's choice.

Free choice of tile floor, even after the installation of the drain: the easily tunable grating can be adjusted to the required height of the tile.

7

Adjustable grating.

The riser blocks allow you to match the grating height with the tile height. The tile thickness can vary between 3 mm and 30 mm. On installation you do not yet need to know the thickness of your tile because the grating can be adjusted afterwards. The tile frame ensures a precise, safe and attractive finish with the tiles chosen.

8

No limitation in the length thanks to endlessly combinable drains.

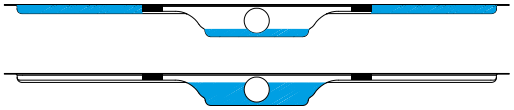
I-DRAIN® can be ordered in 7 standard sizes that can be connected to each other with a coupling piece available in two different forms. The 90° coupling piece allows you to create corners. The straight coupling piece allows you to work with any length.

** only possible for Linear 54/72 drains with a Plano mat or polished grating.*

9

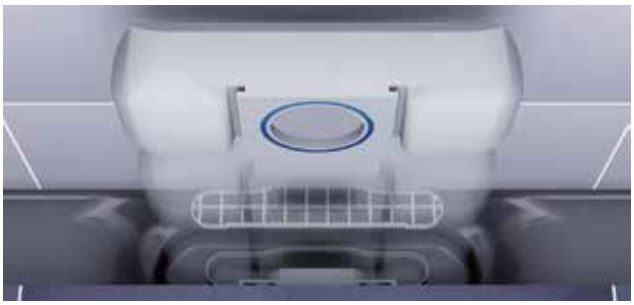
Unique protection system to regulate the water-level inside the siphon (no bad scents).

Water lock recovery eliminates every risk of odour pollution. If the water buffers are integrated into the grating frame, the water lock will automatically be refilled at any time, a necessary feature to overcome water extraction due to a possible vacuum inside the waste pipe *(optional)*.



10 Removable water seal.

The siphon can be fully removed and disassembled. The siphon and the complete interior of the drain can then both be thoroughly and simply cleaned. The hair catching grating can be optionally fitted in the siphon and avoids the soiling of the drainage pipe.



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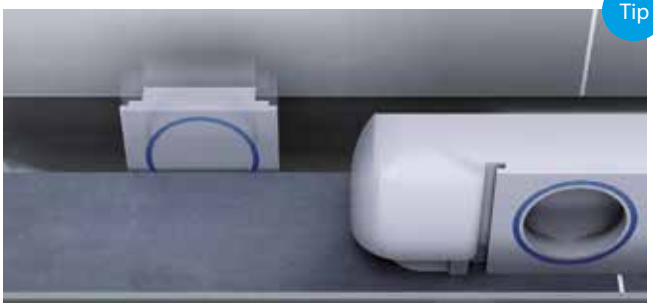


Tip

I-Lock: complete security in longer periods of absence e.g. holidays, business trips thanks to I-Lock.

The I-Lock is a device with which you replace the siphon and connect the drainage pipe. The I-Lock is particularly handy when you do not use your shower for a longer period. This solution was developed for use in e.g. an empty home, a hotel room or even for your home while you are away on holiday.

12 A pleasant scent and perfect hygiene whit I-Cube.

The I-Cube maintenance block was exclusively developed for the I-DRAIN®. The I-Cube breaks foam down considerably more quickly and ensures that rinsed deposits are less likely to attach to the I-DRAIN®. This maintenance block is fitted in the holder and spreads a pleasant odour during showering. Use of the I-Cube holders and I-Cubes depends on the grating. Take a look at p.16 and see which gratings are suitable.

Plano mat

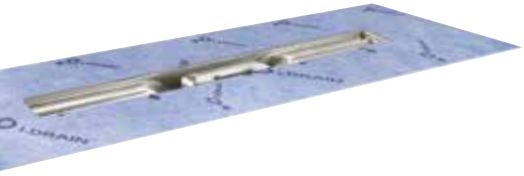
Our solutions

An overview

Chape Drain

The Chape Drain has a built-in water retaining structure that ensures that the water stays in the drain without additional water sealing. The stainless steel 45 mm flange guarantees that, if required, a waterproofing membrane can be fitted as prescribed according to the standard. The Chape Drain is sanded, and with its roughened surface adheres perfectly to any surface whatsoever. With epoxy finished floors you can only use the Chape Drain in combination with the Level-3 grating.

A built-in height of 54 mm* • A stainless steel flange measuring 45 mm • Sanded surface • Laid/ tiled directly in the screed • Available as a door or wall model (p.10).



Linear Drain

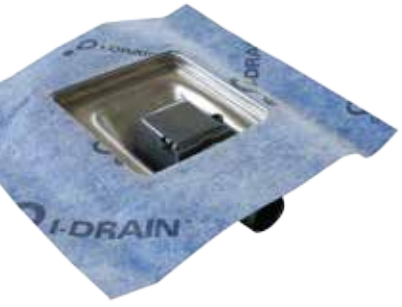
To obtain watertight adhesion of the drain with a waterproofing membrane, the surface of the drain to be adhered, must be fully free of dust and grease. This is rarely feasible on a site. I-DRAIN® solves this problem by fixing its waterproofing membrane in our factory. I-DRAIN® offers a cast-iron guarantee for the durability of this 100% waterproof adhesion as appears from the SP test report supplied by the SP Technical Research Institute of Sweden.

A built-in height of 54 mm* • 100% watertight thanks to the pre-applied waterproofing membrane • Suitable for both door and wall assembly • Double Drain System (DDS) (p.11).

Linear^{+} Drain

Just like the Linear Drain, the Linear^{+} Drain has a waterproofing membrane pre-assembled during production. The advantage of the Linear^{+} is that the waterproofing membrane is 2 meters long and can be simply laid over the whole shower floor. This makes installation on-site even easier. This shower drain offers maximum reliability and simple installation.

A built-in height of 54 mm* • 100% seamless thanks to the pre-applied waterproofing membrane • This model is suitable for both door and wall assembly • Double Drain System (DDS) (p. 12).



Square 15x15

The Square Drain is available with or without waterproofing membrane and in a sanded version. This high quality drainage well stands out by being fully made of deep drawn stainless steel just like our elongated shower drains.

A built-in height from 54 mm* • 3 versions available: Basic, Chape and Linear • Square Linear is fitted with the Double Drain System (DDS) (p. 15).

*excl. floor finish

Chape Drain

Pure, simple and robust

Composition of the I-DRAIN® CHAPE
Chape 54 and Chape 72

Door model

Wall model

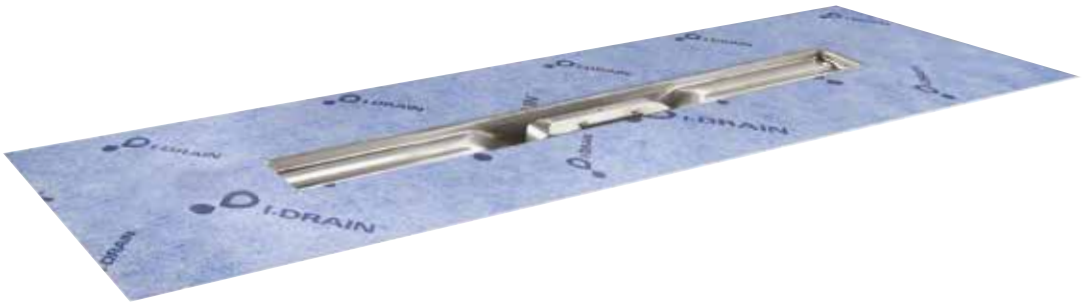
General properties:

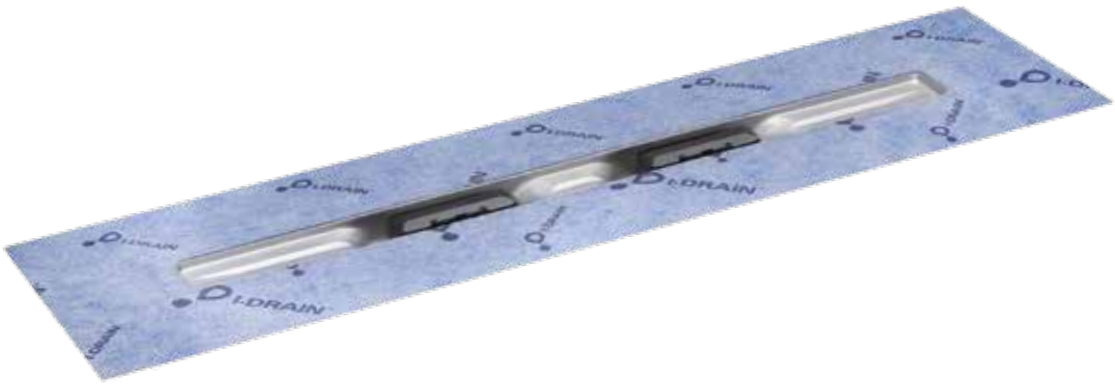
- **Deep drawn** — stainless steel 316
- **Sanded** — rough surface, to attach perfectly to every kind of screed
- **Stainless steel flange** — 45 mm
- **Water retaining edge**
- **Built-in height from 54 mm***
- **Capacity** — 26.4 l/min. (1 siphon) to 45 l/min. (2 siphons)
- **Use with any floor covering** — 3 mm to 30 mm
- **Epoxy** — linoleum-specific
- **Compatible with liquid waterproofing**
- **Available in 7 dimensions from 60 cm to 120 cm**
- **Removable and dismountable siphon**
- **If used in combination with a Level-3 grating, I-DRAIN® becomes the perfect solution for epoxy, mosaic and other**
- **Every design grating fits every drain. Ultra thin types of floorcovering.**
- **Tile mould included**

*excl. floor finish

Technology in all its simplicity

Composition of the I-DRAIN® LINEAR Linear 54 and Linear 72





General properties:

- **Deep drawn** — stainless steel 316
- **Pre-applied waterproofing membrane**
- **DDS** (Double Drain System)
- **Built-in height from 54 mm***
- **Capacity** — 26.4 l/min. (1 siphon) to 45 l/min. (2 siphons)
- **Use with any tile finish** — 3 mm to 30 mm
- **Tested** — 25 years of durability!
- **Compatible with liquid waterproofing**
- **Available in 7 dimensions from 60 cm to 120 cm**
- **Removable and dismountable siphon**
- **Connect all drains with the straight or 90° connector pieces.**
- **25 years of proven durability for the adhesion between the waterproof membrane and drain.**
- **I-Buddy included**
- **Tile mould included**

*excl. floor finish

Linear+ Drain

NEW

Linear+ Drain is the Linear Drain's big brother

Linear+ is the Linear model with the extra long waterproofing membrane measuring 2 meters.

With the Linear+ the I-DRAIN® increases the benefits of the Linear Drain by making the pre-applied waterproofing membrane no less than 2 meters long! This extra long membrane allows the fitter to make the whole shower floor 100% **seamlessly** waterproof.

2-meters waterproofing membrane
Pre-adhered to the drain during the production process.

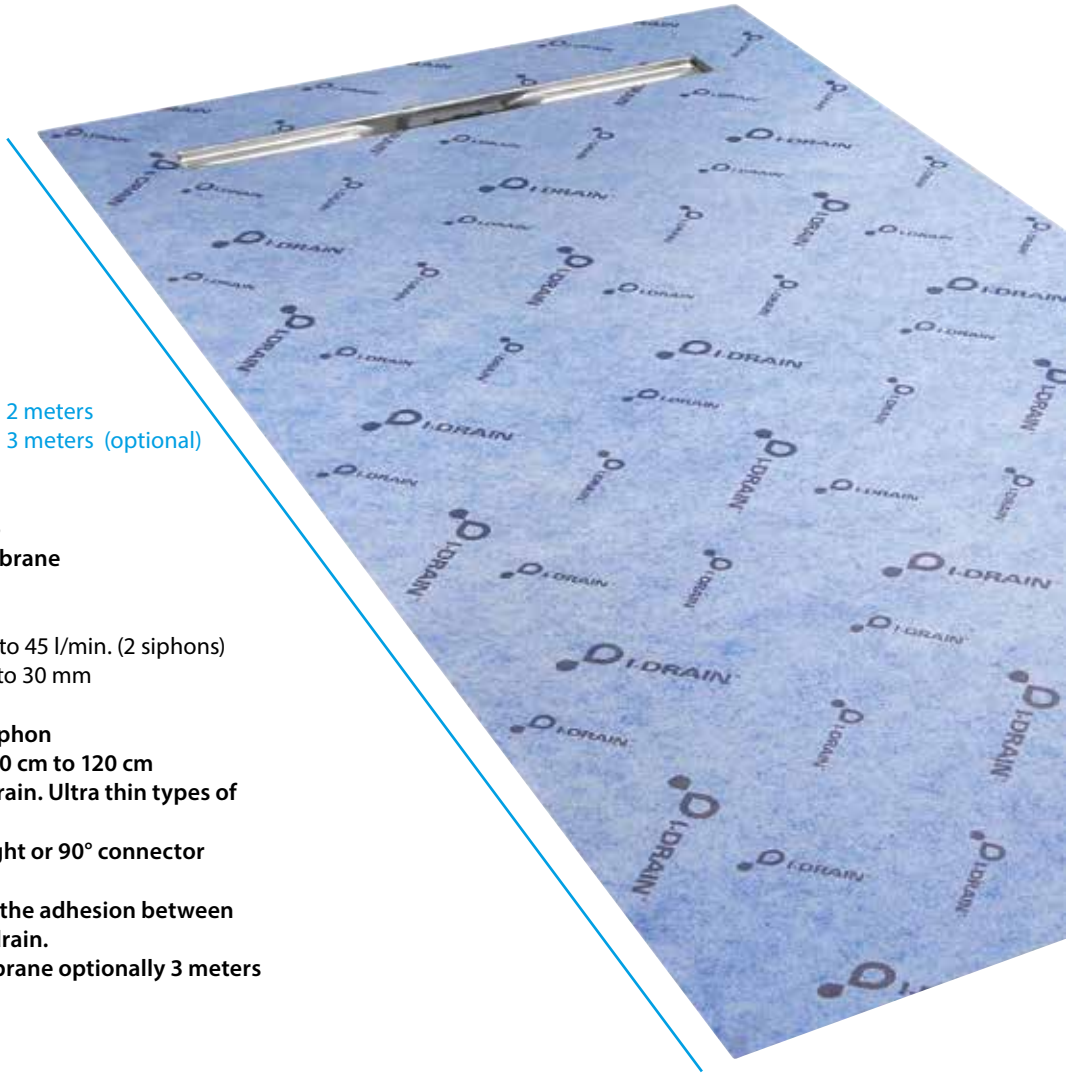
Durability
Successfully tested for 25 years of watertightness of the adhesion of the membrane to the I-DRAIN® at the laboratories of the SP Technical Research Institute of Sweden.

Time savings
The fitter no longer has to adhere two parts of waterproofing membrane to each other.

Certainty
Fitting risk greatly reduced.

European standards
The working of the I-DRAIN® complies with the European standards.
ISO9001
EN1253
CE certified

Built-in height of only 54 mm *



2 meters
3 meters (optional)

Unique features:

- **Deep drawn** — stainless steel 316
- **Pre-applied waterproofing membrane**
- **DDS** (Double Drain System)
- **Built-in height from 54 mm***
- **Capacity** — 26.4 l/min. (1 siphon) to 45 l/min. (2 siphons)
- **Use with any tile finish** — 3 mm to 30 mm
- **Tested** — 25 years of durability!
- **Removable and dismountable siphon**
- **Available in 7 dimensions from 60 cm to 120 cm**
- **Every design grating fits every drain. Ultra thin types of floorcovering.**
- **Connect all drains with the straight or 90° connector pieces.**
- **25 years of proven durability for the adhesion between the waterproof membrane and drain.**
- **2 meters of waterproofing membrane optionally 3 meters**
- **I-Buddy included**
- **Tile mould included**

*excl. floor finish

I-DRAIN® is a top Belgian product!
More information at **www.i-drain.com**

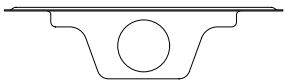
Tile

Square Drain 15x15

NEW

Small, elegant and suitable for tiling!

The Square Drain is a 15x15 cm large - or rather small - drainage well that is highly suitable for a shower without sill and for other personal and industrial use such as kitchen, garage, depository,… : the extremely low built-in height of 54 mm makes this drain suitable for any new build or renovation work. The Square Drain has the same sophisticated and professional drainage technology as the elongated I-DRAIN® models. As distinct from a traditional drainage well, the Square Drain is made entirely of deep drawn stainless steel so there are no welded joints. Another advantage is that the Square Drain is suitable for tiling, meaning the well fits seamlessly in any interior.



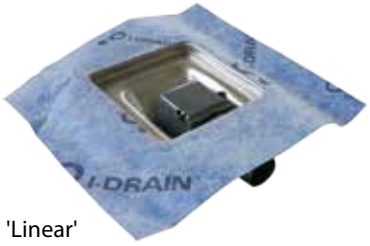
54mm*

The Square Drain is available in 3 models:

- **Square Drain Basic**
  - Unsanded – excl. I-Buddy (optional)
- **Square Drain Chape**
  - Sanded – excl. I-Buddy
- **Square Drain Linear**
  - With pre-adhered waterproofing membrane – incl. I-Buddy

Square Drain 'Basic'

Square Drain 'Chape'



Square Drain 'Linear'

I-Buddy Square

Tile Basic

Plano/ Tile

Tile/ Plano

Star

3 gratings available:

- Tile Basic
- Plano/Tile
- Tile/Plano
- Star

) Side 'Plano' stainless steel and side 'Tile'

*excl. floor finish

Plano

My I-DRAIN®, my grating

Something you look at every day has to look good. This is why we have gratings to match any taste and environment – and all with the high technical quality of the I-DRAIN®. **Extra: your own personalised grating for your personal (hotel) projects.**

Plano mat

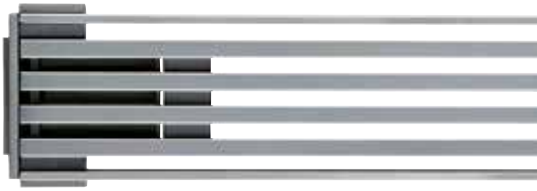
- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers possible
- I-Cube holders and I-Cubes possible
- Can be connected
- Approved according to the EN1253 norm

Plano polished

- Material: Stainless steel 304
- Water buffers possible
- I-Cube holders and I-Cubes possible
- Can be connected
- Approved according to the EN1253 norm

Technic

- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers possible
- I-Cube holders and I-Cubes possible
- Can NOT be connected
- Approved according to the EN1253 norm

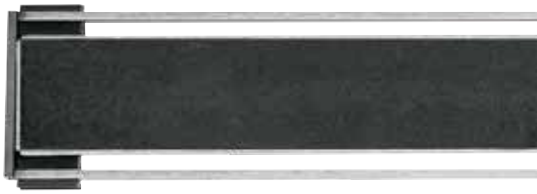


Level-3

- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers NOT possible
- I-Cube holders and I-Cubes NOT possible
- Can NOT be connected
- Especially for mosaic and epoxy

Tile

- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers possible
- I-Cube holders and I-Cubes NOT possible
- Can NOT be connected
- Approved according to the EN1253 norm



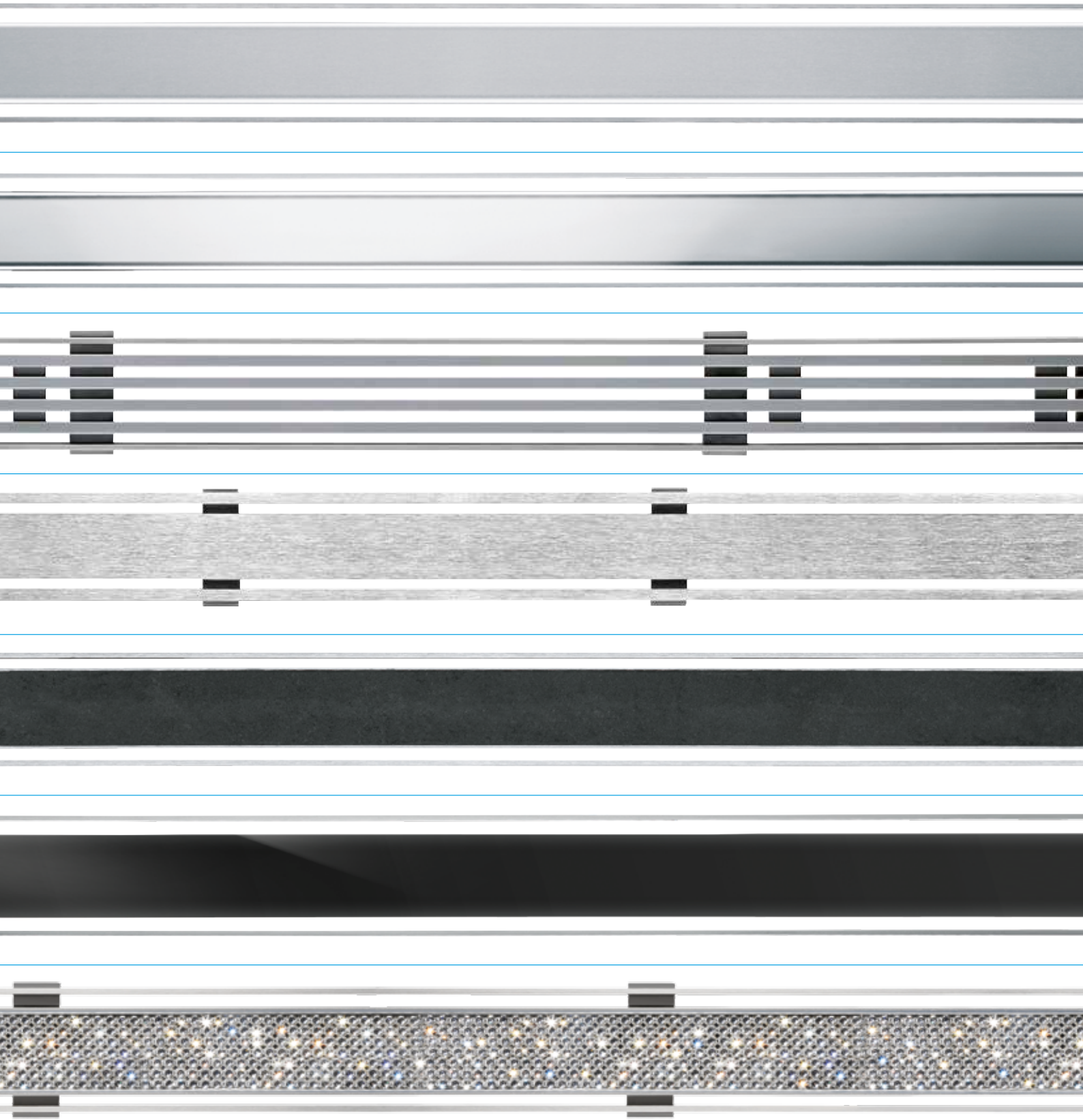
Glass

- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers possible
- I-Cube holders and I-Cubes NOT possible
- Can NOT be connected

MID 2015

Swarovski

- Material: Stainless steel 304
- Option: available in stainless steel 316
- Water buffers possible
- I-Cube holders and I-Cubes NOT possible
- Can NOT be connected



Our references

FERRARI
WORLD
ABU DHABI

YAS MARINA
HOTEL
ABU DHABI

THE ADDRESS
BOULEVARD
DUBAI

MARRIOTT HOTEL MOSCOW RUSSIA

UNIVERSITY NEW YORK ABU DHABI

HOTEL HOLIDAY BISHKEK, KYRGYZSTAN

QATAR AIRWAYS CREW HOTEL DOHA

MASDAR ABU DHABI

MARRIOTT HOTEL NOVOSIBIRSK RUSSIA

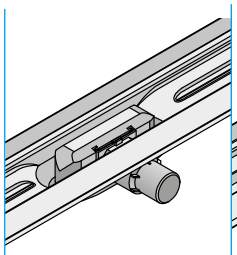
VAN DER VALK BRUSSELS AIRPORT

THE ADDRESS SKY VIEW BURJ KHALIFA AREA DUBAI

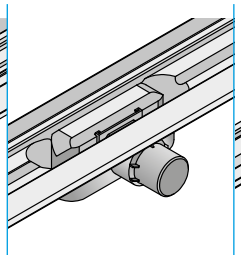
RADISSON HOTEL BRUSSELS

THE ADDRESS FOUNTAIN VIEW BURJ KHALIFA AREA DUBAI

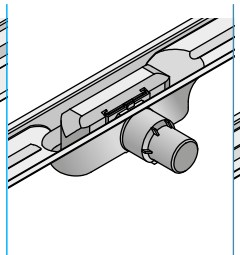
Technical info



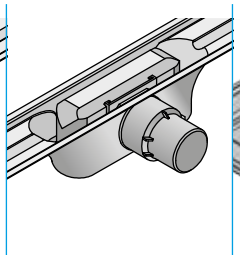
Chape M/D 54



Chape M/D 72



Linear 54
Linear+ 54



Linear 72
Linear+ 72

Square 15 x 15
Basic / Chape/ Linear

	1 siphon	2 siphons	1 siphon	2 siphons	1 siphon	2 siphons	1 siphon	2 siphons	Basic/ Chape	Linear
Material										
Drain	Stainless steel 316 - 1,25 mm		Stainless steel 316 - 1,25 mm		Stainless steel 316 - 1,25 mm		Stainless steel 316 - 1,25 mm		Stainless steel 304	
Grating	Stainless steel 304		Stainless steel 304		Stainless steel 304		Stainless steel 304		Stainless steel 304	
Inner screw part	Nylon*		Nylon*		Nylon*		Nylon*		Nylon*	
Outer screw part	ABS-PC		ABS-PC		ABS-PC		ABS-PC		ABS-PC	
Siphon	ABS		ABS		ABS		ABS		ABS	
Sealant ring	Silicone		Silicone		Silicone		Silicone		Silicone	
DDS (Double Drain System)	No		No		Yes		Yes		Only with the Square Linear	
Capacity										
9 mm water column	0,44 l/s	0,75 l/s	0,47 l/s	0,82 l/s	0,44 l/s	0,75 l/s	0,47 l/s	0,82 l/s	0,40 l/s	
Dimension										
Built-in height	54 mm Floor finish excluded		72 mm Floor finish excluded		54 mm Floor finish excluded		72 mm Floor finish excluded		54 mm Floor finish excluded	
Length grating (cm)	60, 70, 80, 90, 100, 110, 120 90, 100, 110, 120		60, 70, 80, 90, 100, 110, 120 90, 100, 110, 120		60, 70, 80, 90, 100, 110, 120 90, 100, 110, 120		60, 70, 80, 90, 100, 110, 120 90, 100, 110, 120		14,6	
Length of drain (cm)	Length of grating + 99 mm		Length of grating + 99 mm		Length of grating + 33 mm		Length of grating + 33 mm		22,8 x 22,8	- 17,4 x 17,4
Width of grating (cm)	5,5		5,5		5,5		5,5		14,6	
Water seal height	30 mm		50 mm		30 mm		50 mm		35 mm	
Output	40 mm - 2 x 40 mm		50 mm - 2 x 50 mm		40 mm - 2 x 40 mm		50 mm - 2 x 50 mm		40 mm	
Tile thickness floor	from 3 mm to 30 mm**		from 3 mm to 30 mm**		from 3 mm to 30 mm**		from 3 mm to 30 mm**		from 3 mm to 30 mm**	
Tile thickness wall	from 5 mm to ...		from 5 mm to …		from 5 mm to ...		from 5 mm to ...			

* Enforced with fibre glass

** Depends on the chosen grating

PLANO POLISHED

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