Wavin LaLinea
Technical Manual

LaLinea

Pre-Wall Systems



wavin
An Orbia business.

Foreword

Simple.
Convenient.
Comprehensive.

In an increasingly complex world, we are committed to making your life easier. Whether as a MEP planner, architect or skilled tradesman: You need to meet increasingly stringent requirements in your construction projects, meet the growing demands of your customers and deal with industry-typical challenges such as the shortage of skilled workers. At Wavin, we want to combat this: Simplicity, reliability, predictability, convenience.

We achieve this with our 360° approach. We don't think in terms of individual components such as wastewater or drinking water pipes. We cover the entire spectrum of technical sanitary installation: From systems behind the wall to visible elements in front of the wall.

In this technical manual, we present a core area of our 360° range: Wavin LaLinea Pre-Wall System. Our system of pre-installed Premium and Easy WC elements, ready for installation and in accordance with the standards. It contains everything you need: sink technology, sinks, valves, dry construction and wet construction systems as well as the technically innovative actuator plates in exceptional designs.

We explain how the system is installed in various walls, as well as in front of solid and dry construction. You will also learn how to use Wavin components to produce standard-compliant and proven sound insulation and maintain drinking water hygiene.

Sustainability is rightly one of the most important topics in new construction, modernisation and renovation today. We explain our climate-friendly solutions in a separate chapter.

Plan, design and install bathrooms and toilets more easily and conveniently than ever before. With Wavin as a competent system provider.





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Introduction

How do we serve our customers? Preferably 360º!

As conveniently, comprehensively and satisfactorily as possible: This is how our customers want to receive their drinking, wastewater and sanitation solutions. As a system supplier, you get exactly that from Wavin: solid, safe and compliant system solutions from a single source, developed according to applicable standards that shape the construction industry sustainably.

Wavin 360°

Wavin's system comprises wastewater pipes made of mineral-reinforced PP and PE systems, hot and cold water supply, composite pipe systems, PP-R systems, as well as pre-installed WC elements with wall brackets and ball valve. There is also an extensive range of toilet push plates with innovative functions and materials such as plastic, stainless steel and glass.

Whether for rainwater, drinking water, building drainage, heating and cooling or sanitation: Each segment offers you complete solutions. Together with all segments, we cover the entire range of technical solutions. Simply Wavin 360°.

With pre-installed toilet elements, our systems for building drainage and our offerings for drinking water, heating and cooling, we are among the few true full-range suppliers on the market.

Discover the Wavin wall system on the following pages. Ideal for those already working with Wavin in other segments. For example, you can combine our pre-installed sanitary modules with our AS+ and SiTech+ ducting systems – for a quiet complete solution.



Local contact person



Sustainability



Fire protection





Planning of wastewater, drinking or potable water with BIM



Acoustic

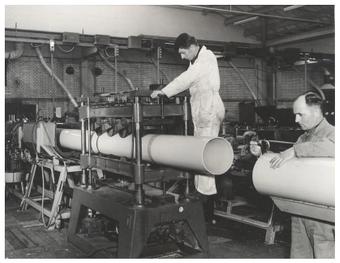


Indoor climate solutions



Hygiene

Innovative for 70 years. For customers and users.



1955

Pioneering PVC wastewater pipes

In 1955, Wavin launched the first PVC pressure wastewater pipes. Innovation is becoming the standard for municipal infrastructures.



1988

Low-noise drainage system

In 1988, Wavin delighted users with the first low-noise drainage system. It significantly reduces pipe noise and provides more comfort in homes, hotels and offices.



2002

PPSU press fitting system

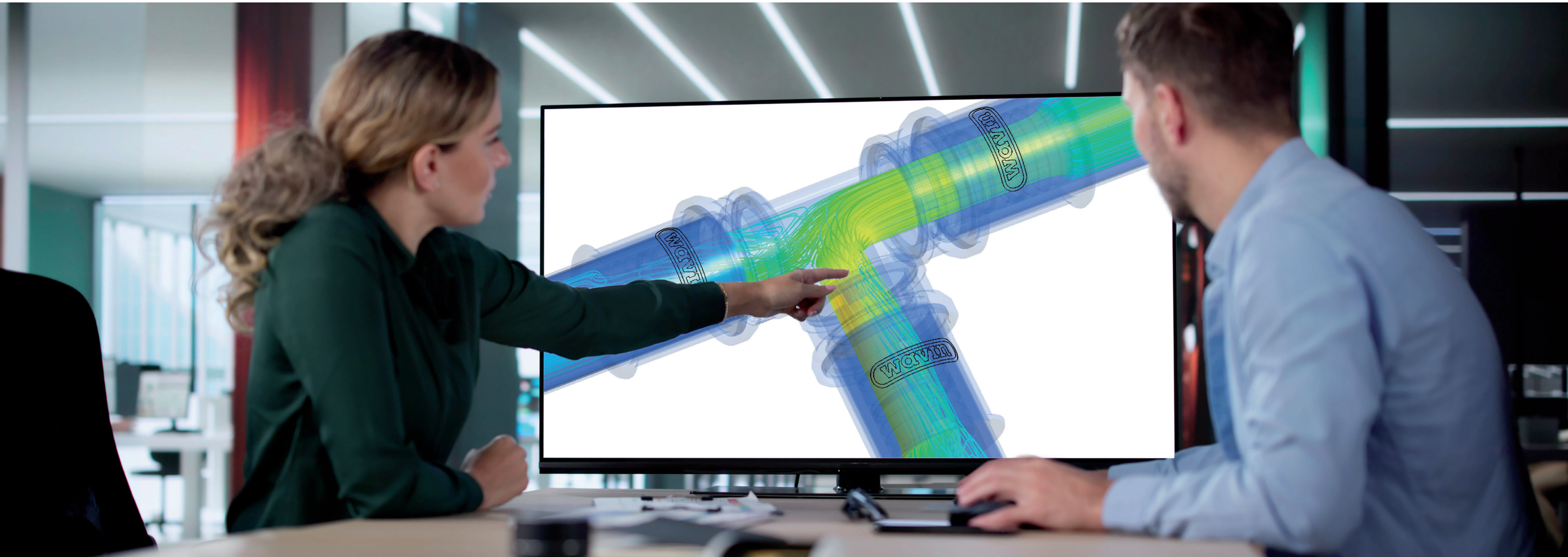
In 2002, Wavin introduced the PPSU press fitting system. A significant improvement in installation efficiency and system reliability.



2020

Smart Leak Alarm

In 2020, Wavin introduced the Tigris fitting with acoustic leak alarm. The fitting makes it easier to find a leak and thus increases the safety of the installation.



WC Elements

The advantages of pre-installation – best in the WAVIN system environment.

At the heart of our comprehensive solution program are the pre-installed Wavin WC modules. Pre-installed means: You get a head start on the construction site during installation. Because we have already carried out many work steps for you beforehand. The WC elements are fixed to the floor and wall and connected to drinking water and wastewater pipes. Done.

Pre-installed WC modules

A shortage of skilled workers often leads to delays in construction. This problem is felt by architects and planners as well as by installers on site. It is therefore important to save time in planning and installation and to manage the sanitary installations with fewer specialists than usual.

The pre-installed Easy and Premium WC modules from WAVIN enable you to do just that: plan economically, work flawlessly – in the shortest possible time.



Overview of benefits

How architects, planners and installers benefit from WAVIN WC modules:

- Less material and time required than traditional planning and installation
- Easier work thanks to pre-installed WC modules
- Pre-installed installation parts reduce the need for personnel and specialists
- 10-year manufacturer warranty
- 25 years guaranteed spare parts availability
- Compliance with the increased requirements of DIN 4109-5

WAVIN LALINEA WC MODULE PREMIUM

1. Flexible wall mount
- Pre-installed multifunctional, foldable wall mount for flexible installation on a flat wall, corner, or ledge.
- Convenient depth adjustment from the front.
- Easy to attach to 27×18 mm C-rails with 15 mm profile opening.

2. Acoustic set
For decoupling feet and wall mounts. Supports compliance with DIN 4109 by reducing structure-borne sound transmission.

3. Robust frame
Self-supporting powder-coated mounting frame. Suitable for wall installation in front of solid or lightweight walls

4. Large water supply
Sturdy monolith cistern for long-lasting use.

5. Tool-free maintenance
Large opening in the push plate allows quick, tool-free maintenance and easy access to components.

6. Precise alignment
The metre mark is used for easy positioning of the element. The center marking in the frame also supports precise alignment during assembly.

7. Reliable condensation insulation
Effective insulation prevents condensation and reliably protects components from the effects of moisture.

8. Stable ceramics attachment
Bolts with 180 mm pitch and high-quality M12 press nuts are used to securely mount the toilet – for long-term stability and easy installation.

9. Water connection for smart toilet
An empty pipe runs from the water tank to the right side of the frame and is used to install water pipes later for a smart toilet with cleaning function.

10. Precise pipe bend holder
Sturdy bracket for secure fixing of the pipe bend. Enables precise positioning in three stages and facilitates professional installation.

11. Convenient self-locking
The built-in self-locking mechanism automatically holds the frame in place during installation. It enables easy one-person installation and precise alignment and fixing to the metre mark.

12. Secure mounting feet
The feet are compatible with UW profiles and can be fastened quickly – for easy and safe frame installation.

13. Flexible height adjustment
The feet can be extended up to 200 mm and allow flexible, precise height adjustment for different floor heights.

Wavin LaLinea WC Element Premium

Self-supporting mounting frame with powder-coated surface for wall installations in solid, lightweight or wooden stud walls. Corner mounting and quick fastening in UW profiles are possible. Pre-assembled water connection (R 1/2", shut-off ball valve) and multi-wall holder facilitate one-person installation. The Premium WC element is prepared with an empty pipe for connection to bidet toilets. An acoustic kit for decoupling the elements and reducing structure-borne sound decoupling, as well as a drilling template, are supplied.



Purpose of use

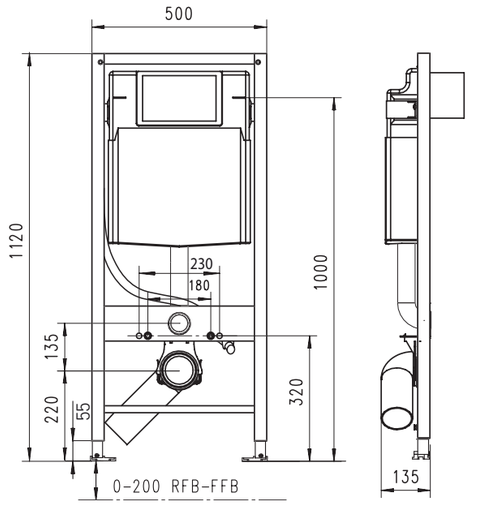
- Self-supporting mounting frame with powder-coated surface
- Wall installation in front of solid or lightweight walls
- In-wall installation for installation in lightweight or wooden stud walls
- Corner mounting possible using wall bracket
- Quick installation in UW profiles

Technical details

- 2-flow rinsing technology or start/stop function
- Adjustable rinsing volume 6/5/4 (factory delivery 6 / 3 l)
- Factory setting allows immediate rinsing
- Pre-assembled water connection at the rear center, external thread R 1/2“ with ball shut-off valve
- Pre-assembled wall mount
- Construction protection can be cut to length
- Condensate insulated
- WC connection elbow can be mounted in various positions without tools
- Low-noise filling valve according to valve group 1 in accordance with EN 14124, DIN 4109
- With empty pipe for shower WC water supply (check connection position and compatibility)
- TÜV tested
- DIN EN 14055 tested
- Connection dimensions for wall WC according to EN 33
- EN 997 load tested (400 kg)
- With floor fixings, 200 mm height-adjustable for RFB-FFB floor assembly
- Drain elbow DN 90/90, 295 mm long includes transition DN 90/100
- WC connection set DN 90 for wall-mounted WC
- Ceramic fastening M12, fastening distance 180 mm
- Multi-wall holder for hanging in C-rail (27 mm x 18 mm)
- Drilling template for drywall
- Soundproofing set for wall mount and foot
- Soundproofing for ceramics
- DGNB (Sentinel certificates) available

Accessories

- Special feet for use on floors with underfloor heating (4085351)



Suitable actuator plates:
from page 48

Optionally available:
Tigris cistern connection for quick installation from the Wavin Tigris range



Technical details:

Cutting-edge technology. Quick to install.

1.80 sec.

1.80 sec. set up by McLaren in 2023

Tire change Formula 1
The extremely short time is achieved by a team of over 20 highly trained mechanics using pneumatic impact wrenches and a sophisticated process to change all four tires in a flash.

Wavin LaLinea WC Element Easy

The Wavin system features self-supporting mounting frame with powder-coated surface for wall and wall installations in solid, lightweight or wooden stud walls. Corner mounting and quick fastening in UW profiles are possible. Pre-assembled water connection (R 1/2", shut-off ball valve) and multi-wall holder facilitate one-person installation. A drilling template for drywall construction is supplied.

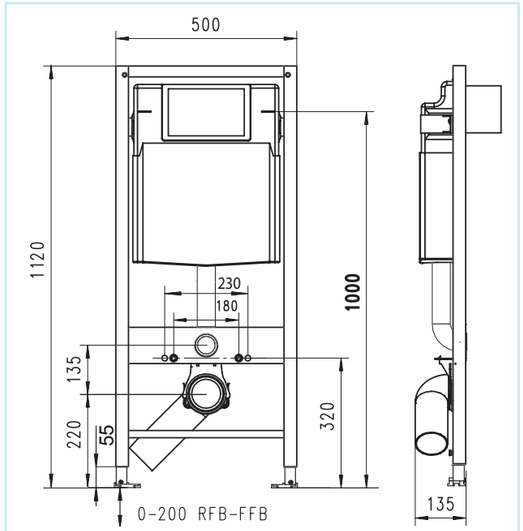


Purpose of use

- Self-supporting mounting frame with powder-coated surface
- Wall installation in front of solid or lightweight walls
- In-wall installation for installation in lightweight or wooden stud walls
- Corner mounting possible using wall bracket
- Quick installation in UW profiles

Technical details

- 2-flow rinsing technology or start/stop function
- Adjustable rinsing volume 6/5/4 (factory delivery 6 / 3 l)
- Factory setting allows immediate rinsing
- Pre-assembled water connection at the rear center, external thread R 1/2“ with ball shut-off valve
- Construction protection can be cut to length
- Condensate insulated
- WC connection elbow can be mounted in various positions without tools
- Low-noise filling valve according to valve group 1 in accordance with EN 14124, DIN 4109
- TÜV tested
- DIN EN 14055 tested
- Connection dimensions for wall WC according to EN 33
- EN 997 load tested (400 kg)
- With floor fixings, 200 mm height-adjustable for RFB-FFB floor assembly
- Drain elbow DN 90/90, 295 mm long includes transition DN 90/100
- WC connection set DN 90 for wall-mounted WC
- Ceramic fastening M12, fastening distance 180 mm
- Pre-assembled multi-wall holder for hanging in C-rail (27 mm x 18 mm)
- Drilling template for drywall
- DGNB (Sentinel certificates) available



Accessories

- Floor fixing adapter on underfloor heating 4085351
- Acoustic decoupling set for wall mounts and feet 4085362
- Purge flow restrictor 4085366

Suitable actuator plates:
from page 48

Optionally available:
Tigris cistern connection for quick installation from the Wavin Tigris range



Technical details:

Properties of all subsequent LaLinea elements

With every product in Wavin's LaLinea range, you get a well-thought-out and versatile solution for the modern sanitary space. In addition to the tried-and-tested sink panels, LaLinea offers you a comprehensive range for all conceivable applications:
Elements for washbasin, urinals, bidets, sinks, showers and baths are just as much part of the system as barrier-free solutions that meet the highest requirements for comfort and accessibility.

Technical details

- Self-supporting mounting frame with powder-coated surface
- Wall installation in front of solid or lightweight walls
- In-wall installation for lightweight or wooden stud walls
- Corner mounting possible using wall mount (available as an accessory)
- Quick installation in UW profiles
- Floor fixings, 200 mm height-adjustable for floor assembly (RFB-FFB)
- TÜV tested
- Without wall mount and fastening material
- DGNB (Sentinel certificates) available

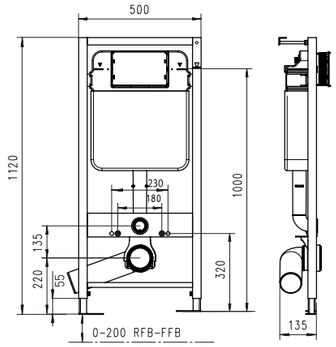
Wavin LaLinea WC Basic Element



Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 135 mm

Purpose of use

- Self-supporting mounting frame with powder-coated surface
- Wall installation in front of solid or lightweight walls
- Quick installation in UW profiles



Wavin LaLinea WC Element 450

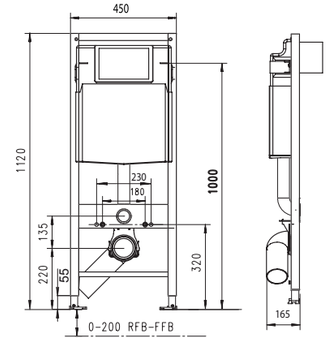


Dimensions
Height: 1120 mm
Width: 450 mm
Depth: 165 mm

Technical details:

Purpose of use

- Corner mounting in combination with wall mount
- Deeper wall mounting of cistern suitable for MDF panels

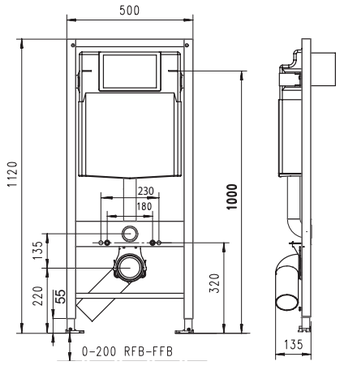


Wavin LaLinea WC Element Nordics



Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 135 mm

Purpose of use
- Water connection with pipe in pipe



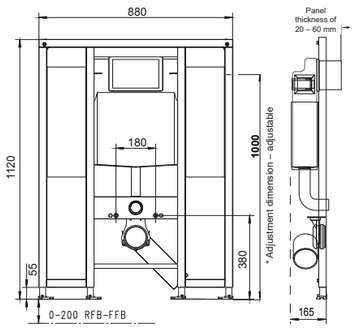
Wavin LaLinea WC Barrier free



Dimensions
Height: 1120 mm
Width: 880 mm
Depth: 165 mm

Technical details:

Purpose of use
- Barrier-free installation
- Raised bolt holder 380 mm for WC ceramic
- Includes two waterproof glued veneered wood panels
- TÜV tested



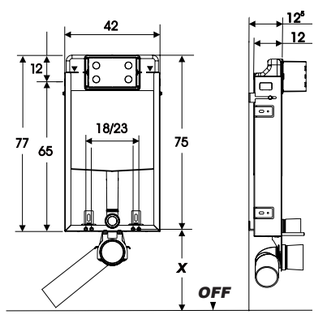
Wavin LaLinea WC Element Wet light



Dimensions
Height: 770 mm
Width: 420 mm
Depth: 125 mm

Technical details:

Purpose of use
- For fixing and removal



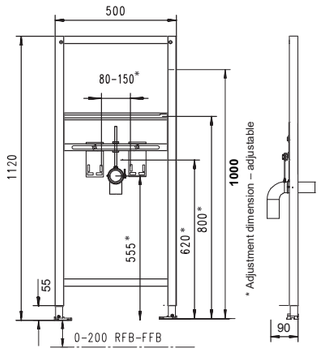
Wavin LaLinea Sink Element



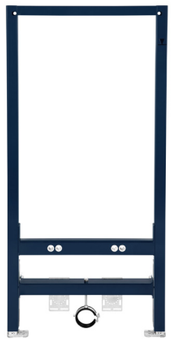
Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 90 mm

Technical details:

Product description
- Mounting plates for wall panels/connection boxes
- All crossbars can be moved
- Extended drain elbow DN 50/40; 80x180 mm
- Soundproofed pipe clamp
- Rubber sleeve 32 mm
- Ceramic fastening 80 to 150 mm



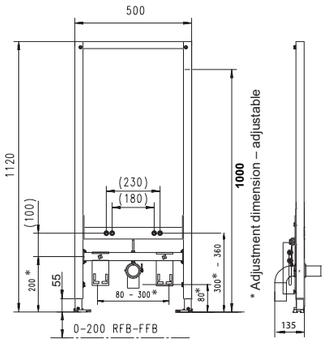
Wavin LaLinea Bidet Element



Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 135 mm

Technical details:

Product description
- Mounting plates for wall panels/connection boxes
- Extended drain elbow DN 50/40; 80x180 mm
- Soundproofed pipe clamp
- Rubber sleeve 32 mm
- For all standard wall bidets

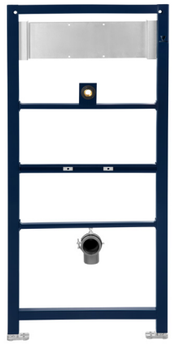






2012 Olympic Games in London
Jamaica's 4x100m relay team sets a new world record. Never before have people in athletics worked hand in hand so quickly.

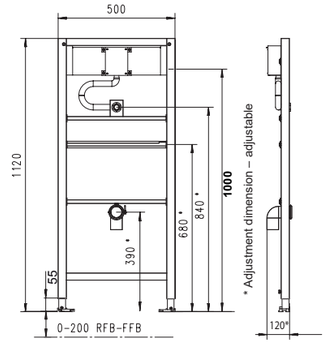
Wavin LaLinea Urinal



Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 120 mm

Technical details:

Product description
- Drain elbow DN 50 with soundproofed pipe clamp
- For all commercially available suction and urinal bowls with concealed inlet/outlet



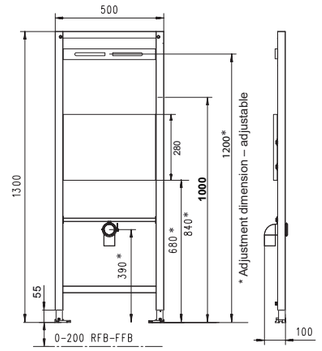
Wavin LaLinea Sink Element



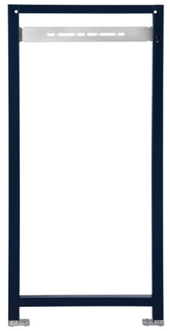
Dimensions
Height: 1300 mm
Width: 500 mm
Depth: 100 mm

Technical details:

Product description
- All crossbars includes wooden plate can be moved
- Holder for wall panels/connection boxes
- Drain elbow DN 50
- Soundproofed pipe clamp
- Wooden board made of waterproof glued veneered wooden board



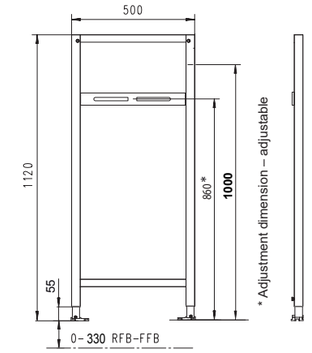
Wavin LaLinea Shower and Bath



Dimensions
Height: 1120 mm
Width: 500 mm
Depth: 100 mm

Technical details:

Product description
- Mounting plates for wall panels/connection boxes
- Crossbars can be moved

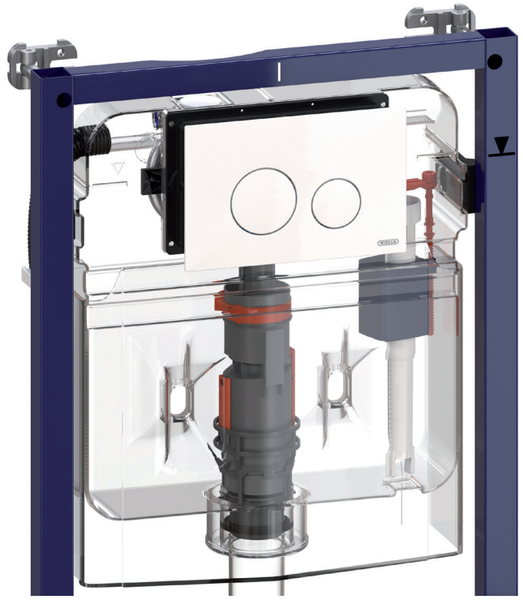


Wavin LaLinea Cistern

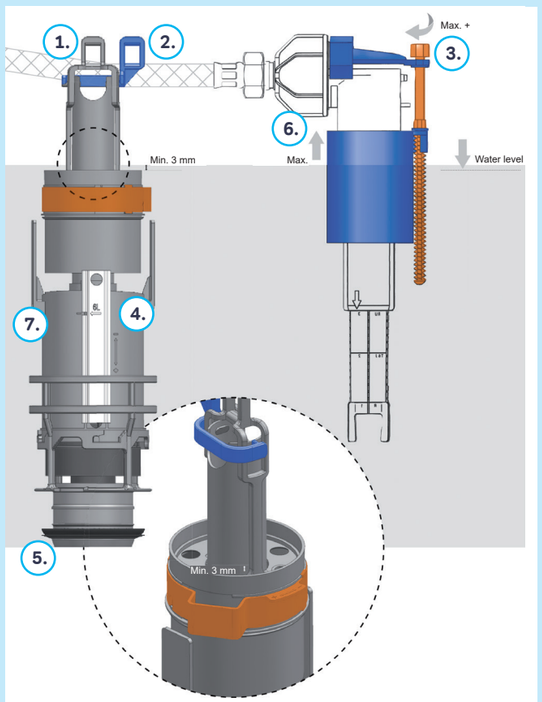
Flexible, compatible and efficient
The Wavin LaLinea cistern is a versatile solution for use in different wall constructions – whether drywall or solid wall. By using suitable mounting frames, the cistern can be integrated flexibly.

The technology inside always remains the same and is fully coordinated with the Wavin LaLinea actuator plates. This end-to-end compatibility ensures a lean product range, simplifies warehousing, and simplifies spare parts supply – ideal for efficient planning and installation.

Characteristics of the cistern
- Partially pre-assembled with shut-off ball valve (see portfolio overview)
- All LaLinea actuator tops fit all frames in the LaLinea series of cisterns
- Dual flush technology
- Robust lever mechanism.
- Factory delivery of 6 and 3 litres
- Cistern made of high-quality plastic
- Easy to assemble
- Large opening for easy maintenance



Tested according to EN standards:
- EN 14055 for cisterns
- EN 14124 for filling valve class 1, tested with 50000 cycles
- The sound insulation was tested in accordance with DIN 4109 using Wavin AS+, SiTech+ and Tigris K5/M5 in combination with the LaLinea flush-mounted cistern



1. **Pull tab for large flushing volume**
2. **Pull tab for small flushing volume**
3. **Infinitely variable adjustment of the water volume in the cistern**
4. **Quantity setting**
5. **Bell gasket**
6. **Maximum filling capacity before emergency overflow**
7. **For maintenance: Gripping position for disassembly (releasing the flushing valve from the bell using a bayonet lock)**

LaLinea Dual flushing technology – efficient and water-saving
With the LaLinea Dual flushing technology, we focus on solutions for sustainable handling of drinking water. As standard, the flushing is delivered with 6 litres for the large flushing volume and 3 litres for the small flushing volume. This factory setting already meets many requirements of modern sanitary installations.

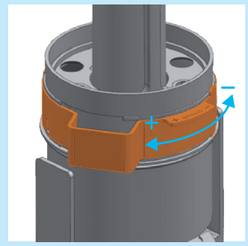
For even more flexibility and optimal adaptation to water-saving ceramics, the large rinsing volume can easily be reduced to 5 or 4 litres. In this way, you actively contribute to environmental protection and reduce water consumption in everyday life.

The dual flsuhing technology enables needs-based use:
- Small flushing volume: 3 litres
- Large flushing volume: factory set 6 litres, adjustable to 5 or 4 litres

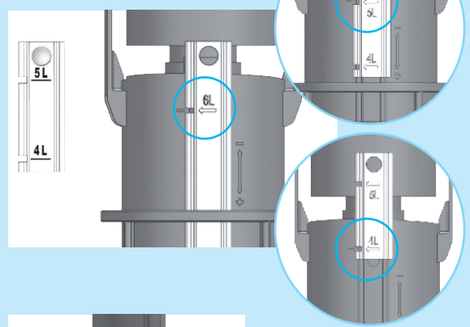
With LaLinea, you are opting for a modern, resource-saving solution – entirely in the spirit of sustainable building technology.

Flsuhing volume setting – LaLinea Dual flushing technology

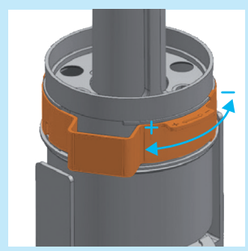
The flushing volumes are adjusted using an adjustment slider on the front of the drain valve. This is marked with “+” and “-” and allows adjustment of the large flushing volume.



A white slide valve with the marking “6 litres” on the front is installed at the factory. If the large flushing volume is to be reduced to 5 or 4 litres, this valve must be removed and replaced with the alternative white valve from the rear. The slider has a lock and thus indicates the correct position for the quantities of 4 and 5 litres.



After inserting the alternative slider, the desired small flushing volume is set by moving it in the “+” or “-” direction.



The flushing volumes are defined as follows:
- Small flushing volume: 3 litres
- Large flushing volume: factory set 6 litres, adjustable to 5 or 4 litres

The flushing volumes are clearly marked on the drain valve and enable easy adaptation to different requirements of modern WC ceramics.

Wavin LaLinea Flushing Technology – Flexible Flushing Flow Control

Wavin LaLinea offers a flexible solution for flushing flow control to ensure optimal function of the WC ceramics and to avoid overspray. The flow can be adjusted in a targeted manner with the aid of the flushing flow restrictor – both to reduce and increase the flushing flow.

The restrictor allows easy and effective adjustment of the flushing flow to different WC ceramics. If the rinsing flow is not ideal for the ceramic – for example if the rinsing effect is too strong or too weak – the pressure can be regulated by selecting an adjustable restrictor.

Further technical information can be found here:

LaLinea purge flow restrictor*
4085366

*included with Premium

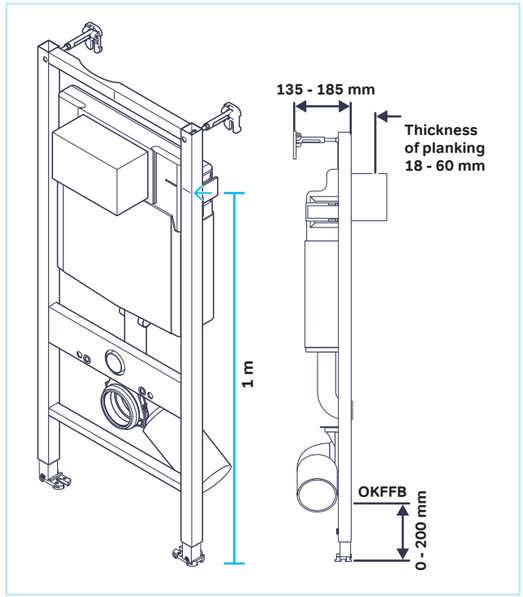




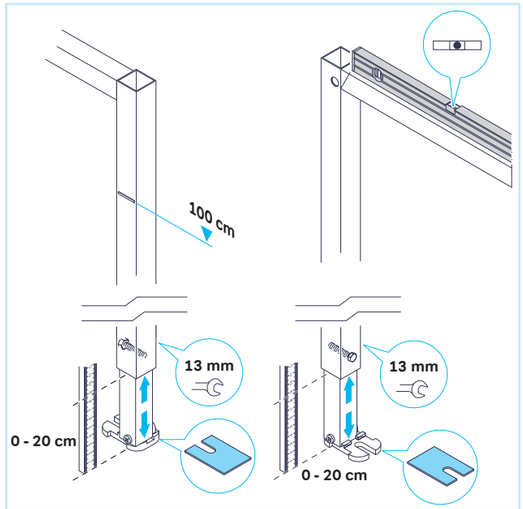
Installation steps

1. Remove the Wavin Premium Element from the packaging and position it on the wall. The element is pre-installed and only needs to be adjusted in depth and height.

2. The element has a metre marking, which is used to align it with the finished floor.



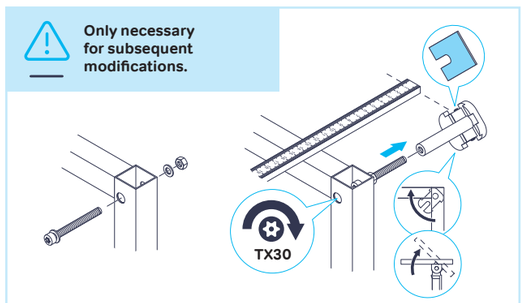
3. The height of the element is changed by adjusting the feet. The installer stands with both feet on the element's footplates and raises or lowers the component until the metre mark on the element is exactly at the height of the metre marking on the wall or the laser reference.



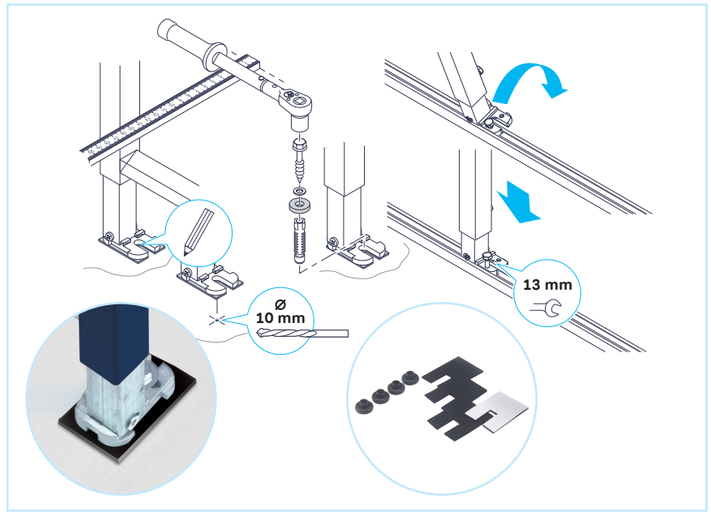
4. The internal screws of the element must then be tightened with an open-end spanner.

5. The pre-installed multi-wall holder is then attached to the wall. (The work step on the right in the illustration is therefore only necessary for subsequent changes). In addition, the soundproofing set is used.

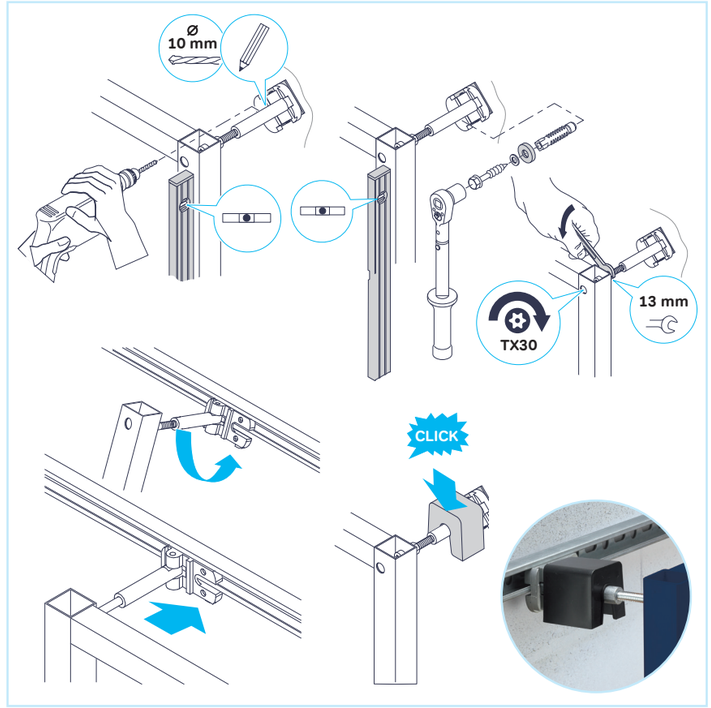
Only necessary for subsequent modifications.



6. The feet are then fastened to the floor using the dowel and screw. (The soundproofing set should also be used here for optimal acoustic decoupling of the element)



7. An alternative fastening is possible if the multi-wall holder is hung in a C-rail (28 x 18 mm).



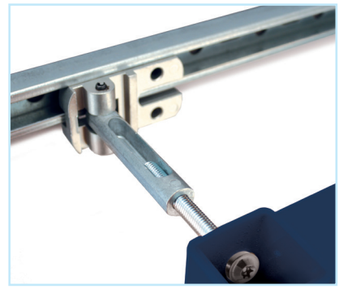
8. The element is now ready for use and the plasterboard panels can be installed.



Alternative 1

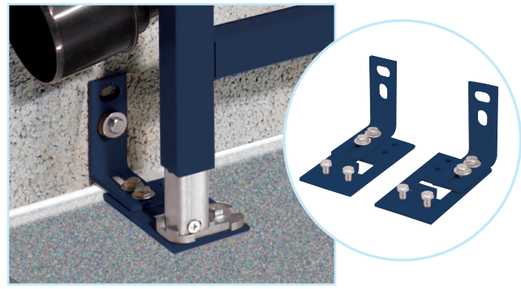
- A C-rail 27 x 18 mm and a profile opening of 15 mm is used.
- The elements can be attached to a C-rail in the floor or on the wall.
- For acoustic decoupling, the C-rail must be completely decoupled





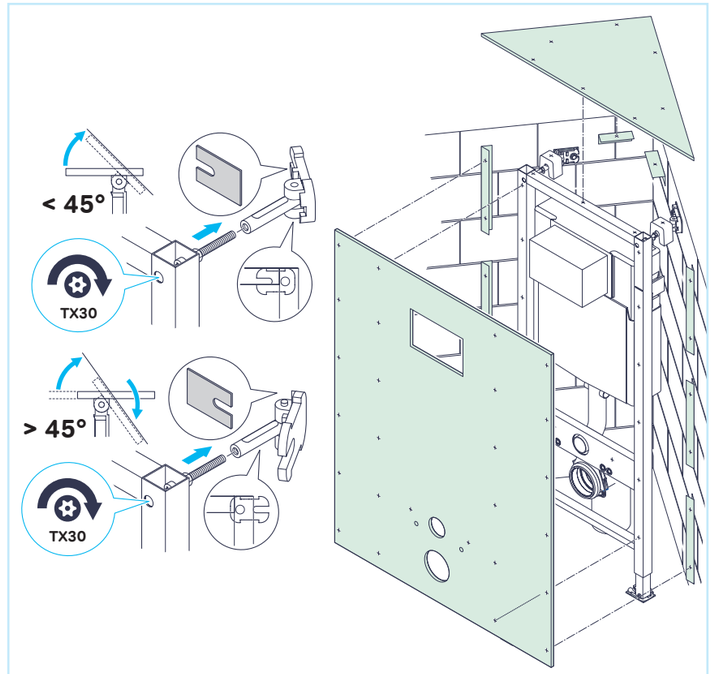
Alternative 2

- Recommendation if fastening in the floor area is too risky due to the screwing of the feet: In the case of a load-bearing surface, the special footrest with screw connection can be used in the wall area.



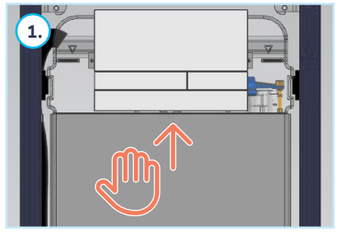
Alternative 3

- The multi-wall holder can also be used for inclined or corner installations.

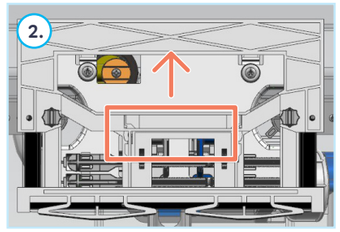


All installation steps can be found under the following link:

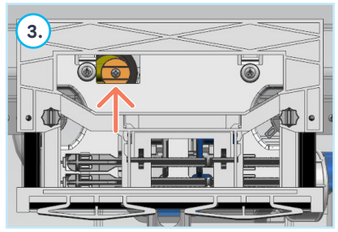
Maintenance of the cistern (Example Wavin LaLinea Select push plate and LaLinea WC cistern)



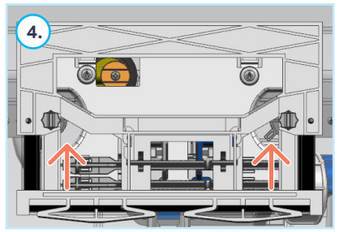
Remove the push plate.
The hand must be placed on the lower edge of the plate and then pushed up. The plate can then be easily removed.



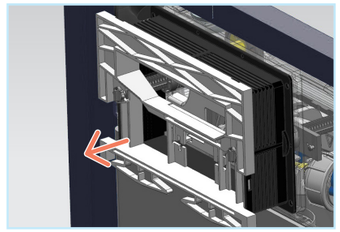
Loosening the handle bolt holder.
The slider is pushed upwards and the push plate pins are free.



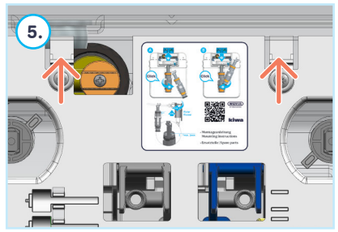
Close the corner valve.
If the installation has been carried out on the rear side.



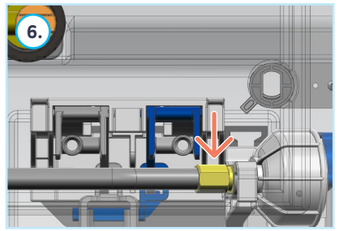
Release the quick-release mechanism to remove the frame of the actuator plate. The quick-release fasteners must be pushed to the upper position. The left side is already loosened, the right side in the picture is still fixed.



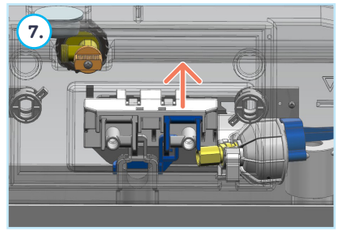
The frame is then pulled out to the front.



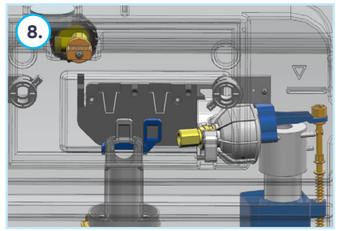
Remove splash guard plate by moving the two levers. Remove the plate forwards. The opening to the cistern is now free.



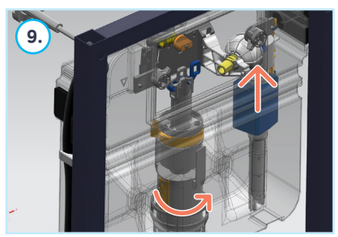
Loosen the armored hose from the filling valve.
The knurled nut can be loosened without tools.



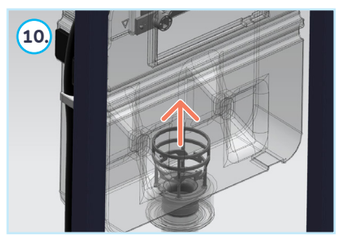
Push the lever up and remove it.



Remove the filling valve by pressing the bracket upwards. The swallow connector then comes loose at the rear.



Reach into the tank with your hand and turn the flush valve to the right. Then remove it.



If necessary, remove the bell basket and check the seal. Also loosen the basket with a slight twisting movement.

FAQ – Possible errors and their causes

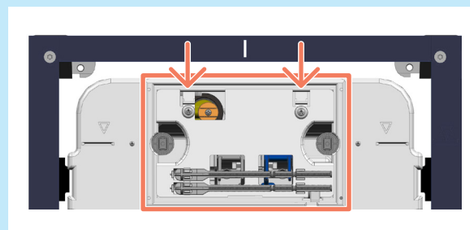
1. The cistern is constantly running
- Operating switch is stuck (remains pressed)
- A lever of the lever bearing is jammed
- Drain valve jams and does not close correctly
- Filling valve does not close and emergency overflow is active
- Corner valve is leaking and emergency overflow is active
- Seals are calcified or dirty

2. Cistern continues running
- Some ceramics “run” for up to an hour after flushing. There are no leaks present.
- Seals are calcified and dirty
- As a remedy, check the connection position in the cistern:
  - Armored hose
  - Corner valve
  - Filling valve

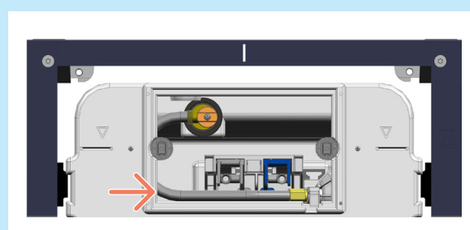
3. Large flush volume corresponds to the small flush volume
- Handle bolts must be correctly adjusted according to the instructions (to remedy this: continue to unscrew the handle bolts and follow the instructions for LaLinea push plates)
- Handle pins are not cut to length, which causes the pin to stop at the rear and the drain valve is not lifted far enough
- Adjusting valve was set to four litres

4. Small flush volume corresponds to the large flush volume
- Water column in the flushing pipe does not drain “fast enough” so that a backflow keeps the drain valve open
- Water level in the cistern is too low (remedy: adjust float and check water pressure)

Important notes:
- The splash guard plate also has the function of fixing the lever bearing in position. If the splash guard plate is not correctly clicked in, this will lead to the above-mentioned faults.



- The armored hose is not routed correctly or is twisted and can thus affect the lever bearing.



Individually combinable

Individually combinable sanitary elements form the basis for flexible, future-proof bathroom concepts. Our new elements – from the cistern unit to urinal and washbasin units to bidet and shower units – are designed to be precisely coordinated in design, function, and dimensions. They enable a clear, clean installation and give planners and installers the freedom to efficiently solve different room situations.

The following examples show how individual modules can be combined to create complete, harmonious bathroom solutions. Each combination demonstrates a different architectural requirement and shows how our elements support stability, comfort and technical performance in a variety of scenarios.



Best connections to the WAVIN systems
Installation elements for connecting to the WAVIN systems Tigris, AS+, SiTech+

Tigris


Cistern connection


Double wall section

Barrier-free

Barrier-free modules expand our system with solutions that support safety, stability and effortless accessibility. They are designed to match our standard modules and can be integrated without additional adjustments.

Reinforced constructions, optimized heights and clear fastening points ensure that grab handles, folding support handles or height-adjusted sanitary ceramics can be reliably installed. This creates bathrooms that offer comfort while meeting the requirements for barrier-free construction.



AS+


Double shower branch


Elbow 45°

SiTech+


Single branch 87° with inner radius


Shower double branch, right

Assembly instructions

Panelling

For the panelling, impregnated (GKBI) with 2x12.5 mm should be used for a two-layer panelling in accordance with DIN 18180. If alternative materials are used for the panelling, this must at least meet the static and acoustic properties. Follow the manufacturer's instructions.

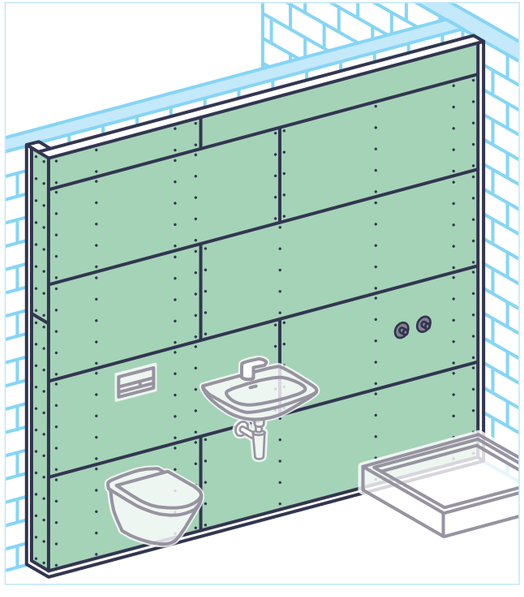


Illustration 01: Horizontal installation of two-layer gypsum plasterboard 2 x 12.5 mm

Installation rules

Wavin LaLinea WC modules are mounted horizontally. In order to prevent cross joints, the joints of the horizontal panelling must be arranged offset.

The edges of the panels are beveled to ⅔ of the panel thickness at an angle of about 45°.

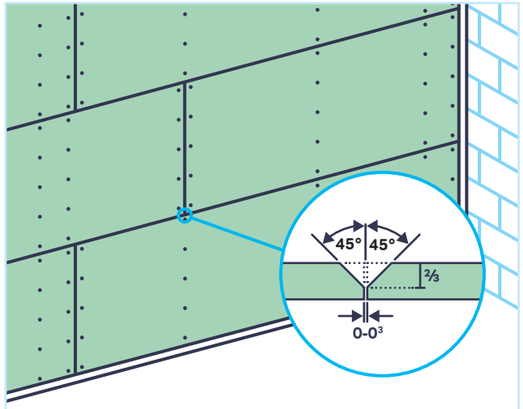


Illustration 02: Chamfering the cutting edges

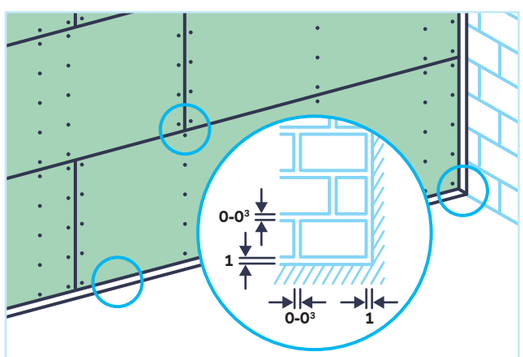


Illustration 03: Panel distances

Be sure to observe the following when joining the panels: It must be in full contact with the stand or mounting element. Certain distances must be maintained for the panelling:

- Screw spacing 12–16 cm
- Distance between structure and panel approx. 1 cm
- Distance between panels maximum 0.3 cm

If it is necessary to make cutouts for hollow wall boxes or pipe penetrations, these must be cut out with a crown drill or jigsaw. A distance of 10 mm from the pipeline should be maintained.

Pipe penetrations are sealed with approved elastics sealants and sleeves. The joints of the WC modules are filled.

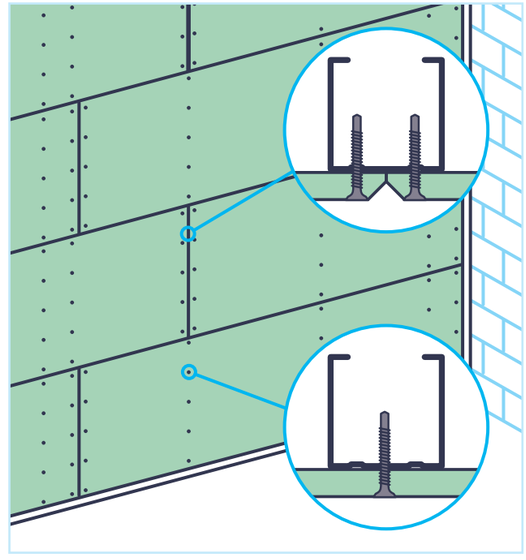


Illustration 04: Panel joint on stand or mounting element

Filling and surface treatment

All panel joints and transitions to the adjacent structure as well as all other joints and openings are filled with filler. Pay attention to an application temperature of at least 8 °C for the filler material. A basic filler (quality level Q1) is sufficient for all surfaces covered with cladding and coverings made of tiles and boards.
Filling after Q1 includes:

- Filling joints between panels
- Filling/coating the visible parts of the fasteners
- Removal of protruding filler material. (Tool-related markings, score marks and burrs are permissible.)

Before applying tiles, plasters, wallpapers, paints and other surfaces, the surface of the panels must be checked: for quality and suitability. In addition, you should coordinate with the subsequent trade. This also applies to pipe penetrations and cut edges of the panels.

For wallpaper, paints, plaster – i.e. surfaces with visual demands – the basic filling according to Q1 is not sufficient. This requires a higher quality of joint technology and filler quality (after Q2 to Q4). These higher-quality fillers are special services that must be tendered and remunerated separately. (See also leaflet 2 "Filling of gypsum boards, surface qualities" of the German Federal Association of the Bundesverbandes der Gipsindustrie e.V.)

Wavin LaLinea WC modules in front of solid back panel
A Wavin LaLinea WC module can be mounted on a masonry or concrete wall with wall brackets. When using wall brackets for mounting, the mounting element is positioned and aligned in front of the masonry or concrete wall.

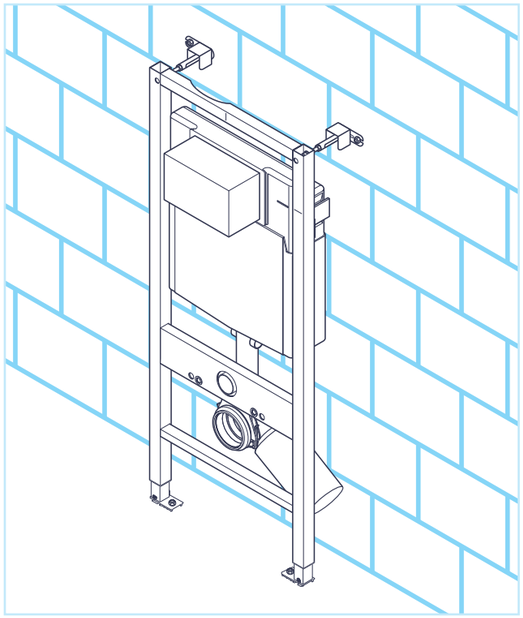


Illustration 05: Illustration of the Wavin LaLinea cistern element, wall and floor mounting

Wavin LaLinea WC modules in front of metal stand wall, reinforced with UA profiles
When fastening in front of dry construction scaffolding, make sure that you use reinforced UA profiles for load transfer. A wooden plate is installed between these UA profiles for secure load transfer.

Requirements for the rear panel
The rear wall must comply with the applicable standards and manufacturer requirements.

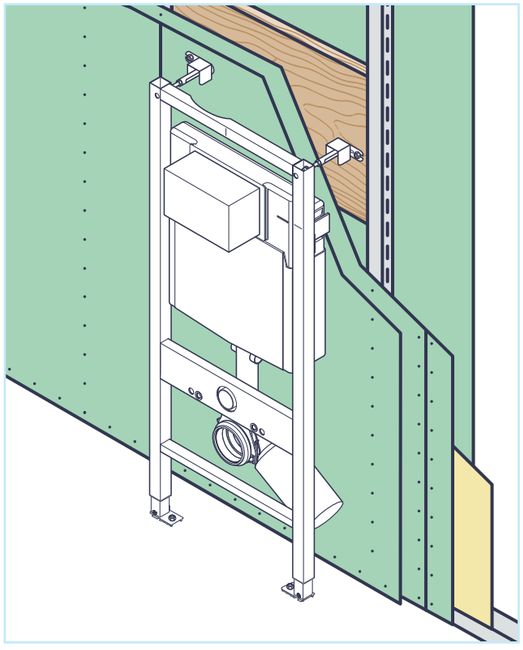


Illustration 06: Illustration of the Wavin LaLinea cistern element, mounted on a drywall

Practical tips:

"Unfortunately, the shortage of skilled workers is also being felt in our company. Nevertheless, I want to be able to take on as large orders as possible in the future. I am grateful for every solution that takes the work off me and my colleagues on the construction site and saves time. For example, in bathroom installations, I can take care of the complete toilet technology including piping with one person – if the manufacturer offers me pre-installed modules. It moves quickly forward, floor by floor. Another plus point: Even trained staff can work with such toilet elements without any errors. The fewer steps needed, the fewer errors can happen. Of course, my customers want one thing above all: That everything is done quickly – and looks good. It's good if I can offer a few beautiful push plates in addition to the practical toilet technology."

Markus L., Installer



Practical tips

Reduce installation time
Pre-installed WC modules from Wavin enable quick, reproducible installation with fewer personnel on site. Many work steps are eliminated or simplified, which is a great advantage especially in the case of a shortage of skilled workers. At the same time, the quality of workmanship increases because critical details have already been solved at the factory.

Consistently adhere to sound insulation
Decouplings, fastening points, and pipe routing are crucial for meeting sound insulation standards – especially in rental properties and hotels. Wavin's pre-installed WC modules come with soundproofing already installed from the factory. This avoids subsequent complaints and costly rework.

Implementing individual customer requests
Pre-installed WC modules offer a lot of flexibility despite standardization: Seat heights, positions of toilet, bidet or additional functions can easily be adjusted within the system. Use these setting options in a targeted manner to meet individual requirements.

Focus on system solutions instead of individual components
Use not only pre-installed WC modules but the complete installation system including the associated piping from a manufacturer. All components are coordinated, tested and easy to install. This reduces interfaces and helps decisively to ensure flawless construction.

§ Legal

DIN 4109 or DIN 4109-5
Requirements for compliance with installation noise for buildings

Standards and regulations for partitions, front and rear walls

When planning, designing and documenting partitions, bulkheads and installation walls or shaft walls, you must comply with the applicable national and regional standards, regulations and technical regulations.

Specifically, these are the building regulations, requirements for fire and noise protection, static verifications and all other provisions prescribed by the respective country or competent authority.

Everyone involved in your project must ensure that the systems and components used can be proven to comply with the required classifications. Similarly, the underlying test reports, approvals and installation guidelines must be complete, up-to-date and suitable for the respective market environment.

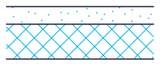
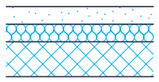
If there are deviations from European reference standards or if there are special local requirements, these must be identified at an early stage and taken into account in planning.

Building Physics Fundamentals

Statics Wavin Linea mounting elements
Wavin Linea mounting elements may only be attached to structures with sufficient load-bearing capacity. The assembly elements are tested in accordance with VDI 6000 Sheet 1 Section 10.6 with the following loads:

- LaLinea elements for toilets and bidets in accordance with DIN EN 997:2018-12 “WC pans and WC suites with integral trap”, Section 5.7.4 with 4000 N (400 kg)
- LaLinea elements for washbasins according to DIN EN 14688 “Sanitary appliances - Wash basins - Functional requirements and test methods”, Section 5.2 with 1500 N (150 kg)
- LaLinea elements for urinals with 1000 N (100 kg)
- Elements and mounting plates for fastening support and folding handles in accordance with DIN 18040-1 “Barrier-free construction – Planning principles – Part 1: Publicly accessible buildings”, Section 5.3.3 with 1,000 N (100 kg)

Requirements for the flooring
Wavin Linea modules can be installed on the unfinished concrete or wooden floor or on the finished floor (screed). When installed on the unfinished floor, the build-up between the unfinished and finished floor must not exceed 20 cm. When installing on screeds, certain requirements regarding the compressive strength and thickness of the screed must be observed.

	Composite screed on concrete	Floating screed on concrete
		
Compressive strength	5 N/mm²	
Screed thickness[1)]	70 mm	

[1)] With a screed thickness of 70 mm, the screws included in the delivery can be used. Shorter screws must be used if the screed thickness is smaller. Smaller screed thicknesses are permitted if the screed meets the requirement for compressive strength.

Table 01: Screed requirements

Invisible: 1,116 individual parts Visible: Unique beauty

Many complications

So that everything simply works.

The art of watchmaking
For eleven years, Swiss watchmaker Paul Gerber worked on the most complicated watch in the world at the time: It consisted of 1,116 parts and was entered in the Guinness Book of Records in 2005. A work of precision and complexity. The WAVIN PWS is not quite that complex. But our system was also built with high precision from many individual parts – behind the wall. In front of the wall, it is visibly impressive with its beautiful push plates. The time has come!

Measuring and verifying sound insulation through acoustic system tests

Sound insulation
Wavin LaLinea WC modules meet the following sound insulation requirements:

- Standard requirements in accordance with the general rules of technology for the external area requiring protection (space diagonally below) in accordance with DIN 4109.
- Increased requirements for the external area requiring protection (space diagonally below) in accordance with DIN 4109, Part 5 and VDI 4100
- Partial fulfillment of the increased requirements in the adjoining room of the own area requiring protection in accordance with VDI 4100

Measurement according to DIN 4109
To be able to evaluate a system like the Wavin LaLinea from different components, a complex test setup is necessary. Here, as in practice, a real case is set up in order to achieve the sound protection targets of DIN 4109. Testing is conducted in various forms:

- Front wall in front of an installation wall, solid
- Wall in front of an installation wall, dry construction

Various influencing factors are decisive for this, such as the cistern (triggering and refilling), wall material and density, wastewater and drinking water system. Each of these components contributes to determining the total installation sound level LAF, max, n.

In order to achieve the required values with Wavin LaLinea at a later date, everything must be carefully planned, installed and assembled. Here we recommend the corresponding contents of this brochure.

DIN 4109-4 “Construction acoustic tests”

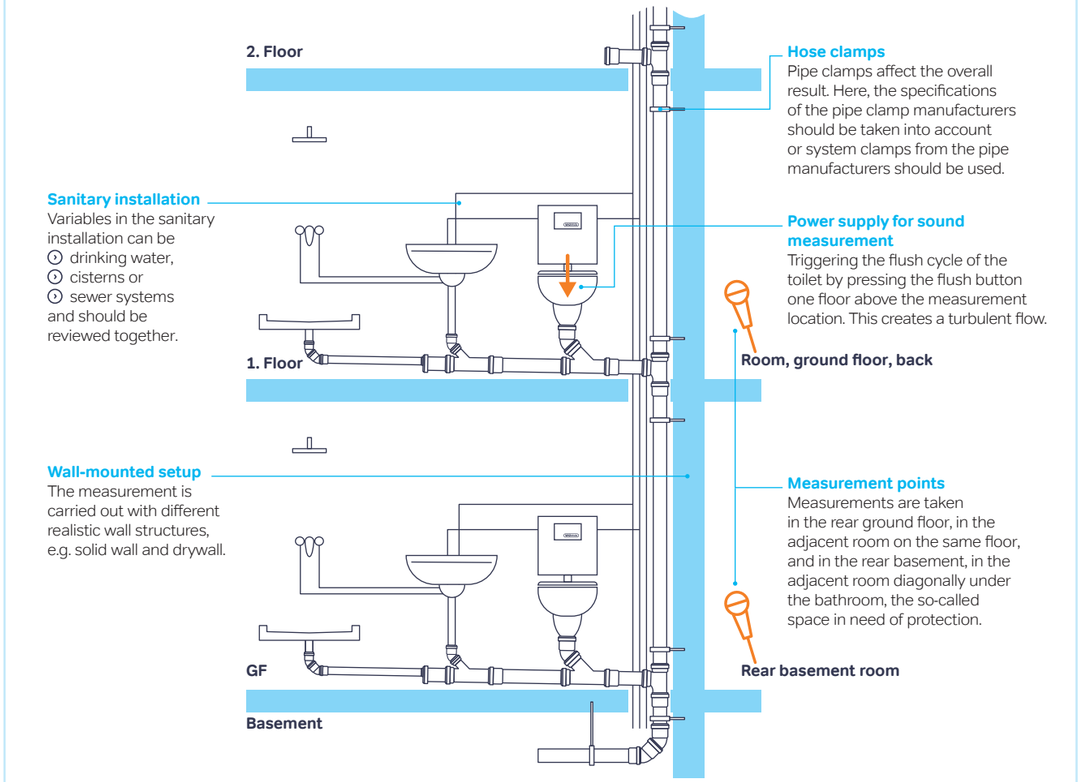


Illustration 07: Representative setup for a measurement under real conditions



Installation noise in accordance with DIN 4109, DIN 4109-5 and VDI 4100, P-BA 196/2024e solid wall, tested with Wavin AS+, Tigris K5/M5 and LaLinea WC element in the test bench of Fraunhofer IBP with knob dry construction profiles and a panelling of 2x12.5 mm GBKI, mass of installation wall 220 kg/m². Soil and waste pipe fastening with Wavin LN system clamp

	$L_{AF,\,max,\,n}$				$\overline{L_{AF,\,max,\,nT}}$			
	RESULT AFTER	**REQUIREMENTS ACCORDING TO**			**RESULT AFTER**	**REQUIREMENTS ACCORDING TO**		
MEASURING POINT	**DIN 4109:4 2016-07**	**DIN 4109:4 2018-01**	**DIN 4109-5 2020:08** Apartment building	**DIN 4109-5 2020:08** Single-family terraced and semi-detached house	**VDI 4100: 2012-10**	VDI 4100 SSt I	VDI 4100 SSt II	VDI 4100 SSt III
Space lying diagonally below (in the external area requiring protection)	**18 dB(A)**	≤ 30 dB(A) ✓ **Fulfilled**	≤ 27 dB(A) ✓ **Fulfilled**	≤ 25 dB(A) ✓ **Fulfilled**	**15 dB(A)**	≤ 30 dB(A) ✓ **Fulfilled**	≤ 27 dB(A) ✓ **Fulfilled**	≤ 24 dB(A) ✓ **Fulfilled**
Adjacent room (in own area)	**25 dB(A)**	No requirements	No requirements	No requirements	**22 dB(A)**	EBI ≤ 35 dB(A) ✓ **Fulfilled**	EBI ≤ 30 dB(A) ✓ **Fulfilled**	No requirements

Installation noises in accordance with DIN 4109, DIN 4109-5 and VDI 4100, P-BA 153/2025e dry construction, tested with Wavin AS+, Tigris K5/M5 and LaLinea WC element in the test bench of Fraunhofer IBP with knob dry construction profiles for the front wall and a panelling of 2x12.5 mm GBKI, installation wall: Lightweight partition wall knob W112. Soil and waste pipe fastening with Wavin LN system clamp

Space lying diagonally below (in the external area requiring protection)	**18 dB(A)**	≤ 30 dB(A) ✓ **Fulfilled**	≤ 27 dB(A) ✓ **Fulfilled**	≤ 25 dB(A) ✓ **Fulfilled**	**18 dB(A)**	≤ 30 dB(A) ✓ **Fulfilled**	≤ 27 dB(A) ✓ **Fulfilled**	≤ 24 dB(A) ✓ **Fulfilled**
Adjacent room (in own area)	**25 dB(A)**	No requirements	No requirements	No requirements	**24 dB(A)**	EBI ≤ 35 dB(A) ✓ **Fulfilled**	EBI ≤ 30 dB(A) ✓ **Fulfilled**	No requirements

Table 02: The display of the results always shows the highest value.

System test in accordance with DIN 4109
Measurements are taken in the measuring chamber with a large and a small flushing volume. Flushing is triggered directly via the toilet in the front ground floor. The maximum sound pressure level is measured at the start and during the flushing and filling process.
In order to comply with or fall below the limit values in accordance with DIN 4109 or to meet the increased requirements of DIN 4109-5, the following should be observed:

- High-quality cistern
- Wall system with decoupling from the masonry
- High-quality pipe clamps with attachment to the front wall system
- Correct installation of all components
- Selecting the right wastewater piping system for the planned application

More error tolerance with heavier piping system
As there are different possible sources of error with every sewer installation, a heavier pipe system is recommended. This allows even minor errors during installation to be compensated for.

Extensive expertise on the topic of sound insulation:
Download the competence brochure “Sound Insulation” here.



Perfect drinking water hygiene with Wavin Tigris and Wavin LaLinea

Drinking water is our most important food. Uncompromising drinking water hygiene prevents harmful germs and contamination in the drinking water installation. Especially in modern buildings with front wall technology, systems must be installed that prevent stagnant water and enable regular, automatic flushing.

Wavin Tigris – dead space-free and permanently tight
Ensure perfect drinking water hygiene with Wavin Tigris: The dead space-free connection technology in the system avoids stagnant water and minimizes the risk of germ formation. Wavin Tigris is designed to be to be permanently leak-proof and uses exclusively health-safe materials. Everything for a sustainably hygienic and safe drinking water installation.

The advantages at a glance:

- Protection against health-endangering germs thanks to automatic hygienic rinsing
- Reduced risk of stagnant water
- Easy integration into wall technology and existing sanitary systems
- Sustainable assurance of drinking water quality – day after day

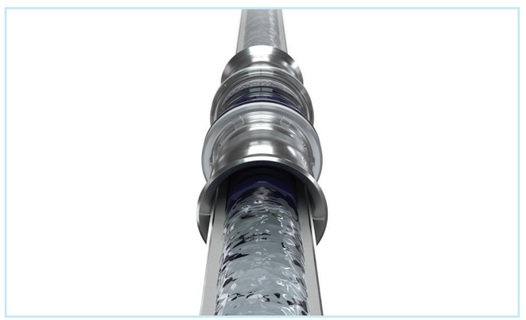
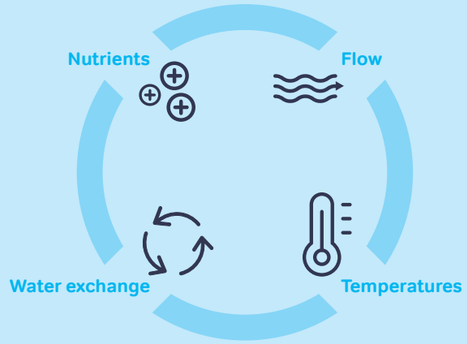


Illustration 08: Everything flows

Key requirements for drinking water quality
Flow rate, temperature, water exchange and nutrient supply: In a drinking water installation, these four variables must always be considered in a coherent manner.



Wavin LaLinea push plates with automatic hygiene flushing
Implement consistent drinking water hygiene particularly effectively with the use of a Wavin LaLinea Sense push plate – as the final element of a row installation. The integrated automatic hygiene flushing ensures regular water replacement every 24 hours. This means that germs and biofilms have no chance of settling even in areas that are not used much.

Use Wavin Tigris and Wavin LaLinea Sense in one installation, ensures compliance with all legal requirements and offer your customers the highest reliability and longevity of the entire installation. For the health of all users.

Push Plate LaLinea Sense:
more information from page 56

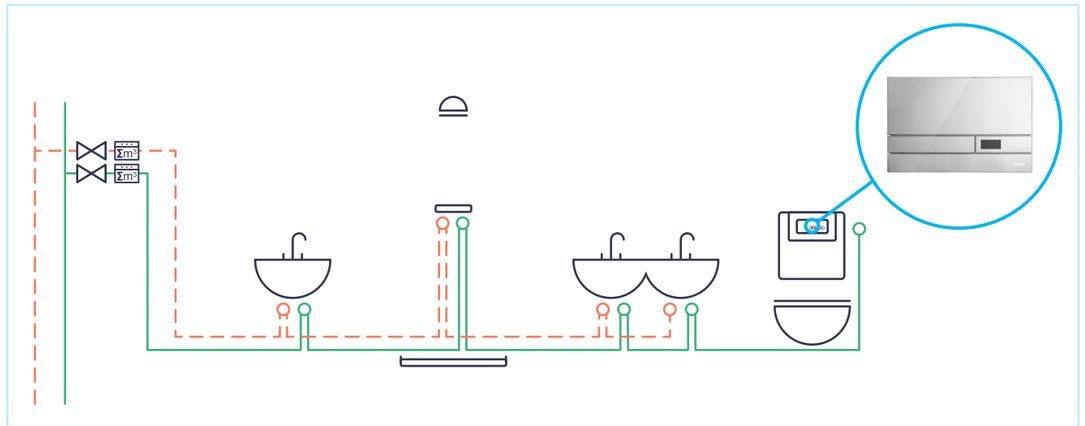


Illustration 09: By arranging the automatic flushing, with the LaLinea Sense push plate at the end of the installation, a regular water exchange rack

Wet construction system

Special mounting elements are available for Wavin LaLinea for installation in brick walls. In combination with the brick wall, the mounting elements are static ready to accommodate sinks, toilets, urinals and other sanitary elements. They enable the precise connection of water and wastewater pipes.

The LaLinea mounting elements for wet construction are suitable for these types of walls:


Partial-height installation wall


Partial-height installation wall with manhole


Room-height installation front wall

Planning principles

Normative requirements for walls in solid construction
The front and rear walls must withstand the forces introduced into them by the sanitary installations. The following standards must be fulfilled:

Masonry walls:
- DIN EN 1996-1-1:2013-02 “Design of masonry structures”

Concrete walls:
- DIN 1045-1:2023-08 “Concrete structures – Part 1: Planning and design”

Building Physics Fundamentals

Static
The special Wavin LaLinea mounting elements may only be attached to sufficiently load-bearing structures. Mounting elements built into a solid wall are designed and tested in accordance with VDI 6000, VDI 6000 Sheet 1, Chapter 10 Sanitary Engineering, Section 10.6 for supporting the following bracket loads:

- LaLinea elements for toilets and bidets in accordance with DIN EN 997:2018-12 “WC pans and WC suites with integral trap”, Section 5.7.4 with 4000 N (400 kg)
- LaLinea elements for washbasins according to DIN EN 14688 “Sanitary appliances – Wash basins – Functional requirements and test methods”, Section 5.2 with 1500 N (150 kg)
- LaLinea elements for urinal with 1000 N (100 kg)



Installation in brick wall
The special LaLinea mounting elements for wet construction do not perform a static load-bearing function. If they are installed in a brick wall, the following must be observed:

- The wall shall be designed as a load-bearing solid wall.
- Partial-height walls must be anchored to the rear wall.
- LaLinea mounting elements must be fastened to the solid wall with 4 fixing points: 2 attachment points on the side of the frame and 2 attachment points inside the frame on the rear wall.
- LaLinea mounting elements must be installed and removed completely and in a force-locking manner.
- The space below the assembly element must be completely bricked.
- LaLinea mounting elements must be walled in at least 30 cm on both sides

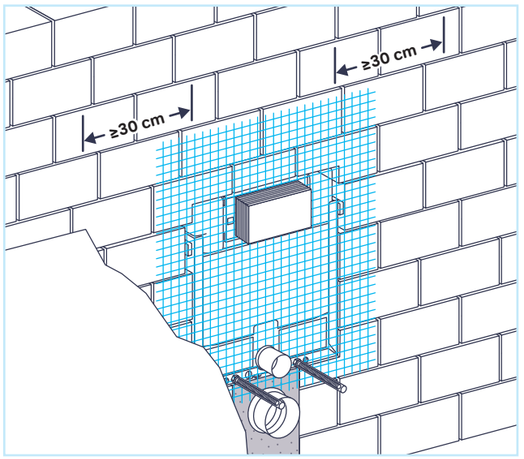


Illustration 10: Installation of Wavin LaLinea WC light with required minimum distance.

Download installation instructions:

In front of the curtain: big opera. Behind it: a well-established system.

200 musicians

So that thousands of ears can be enchanted.

Orchestra pit
The completely concealed and recessed orchestra pit in the Bayreuth Festival Hall is world-famous. In such a hidden room, up to 200 musicians play hours of opera for around 2,000 guests. A harmonious system of actors in front of and behind the curtain. At WAVIN, too, we have the ambition to offer our customers a complete system behind and in front of the wall. Sounds good, right?

Practical tips:



"Efficiency is one of the most important terms for planning construction projects. Not only do we want to work as efficiently as possible in our planning office – we also want to achieve high efficiency in the technical systems installed in a building. With the example of WCs and bathrooms, we are repeatedly experiencing that different manufacturers of pipes and WC technology can make planning and implementation more difficult. We therefore rely on full-service providers who have everything "behind the wall" in the program and are even visible "in front of the wall" with solutions. Pre-installed WC elements for all conceivable dry and wet walls also increase efficiency. Fewer work steps on the construction site means less effort in planning."

Christina S., Planner

Practical tips

- **Understand pre-installed modules as a strategic planning element**
  Utilize LaLinea WC modules not just as a technical solution, but as an integral part of your planning. In rental and hotel projects, they significantly increase efficiency as construction times are shortened, interfaces are reduced and costs can be calculated early. Industrial prefabrication creates a robust basis for adherence to deadlines and budgets.

- **Predictability through standardized, tested systems**
  Work with system solutions made from drinking and wastewater pipes as well as pre-installed toilet elements that are norm-tested and systematically coordinated. This means that requirements for sound insulation, fire protection, hygiene and drinking water standards can be reliably met. For planning, this means fewer project-specific special solutions, lower liability risk, and high planning certainty.

- **Plan bathroom layouts more easily in a modular and scalable way**
  Utilize the predictability and scalability of pre-installed toilet modules to efficiently replicate bathroom layouts in large projects. Recurring installation axes and identical wet cell types increase efficiency in planning and execution, without restricting the individuality of the design. This creates cost-effective series solutions with architectural diversity, especially for hotels and residential complexes.

- **Simplify construction processes and reduce interfaces**
  By using pre-installed wall modules, trades can be clearly separated and construction processes can be accelerated. Installation work is more predictable, sources of error on the construction site are minimized and dependencies between bodyshell, MEP and expansion are reduced. This directly contributes to deadline and cost security.

- **Considering future security and operating costs**
  LaLinea WC modules enable maintenance-friendly, durable installations that facilitate later adjustments or renovations. Plan these benefits actively in order to reduce long-term operating costs and prepare the property for future requirements in terms of standards and technology.

Wavin push plates

Visibly high-quality, beautiful and innovative.

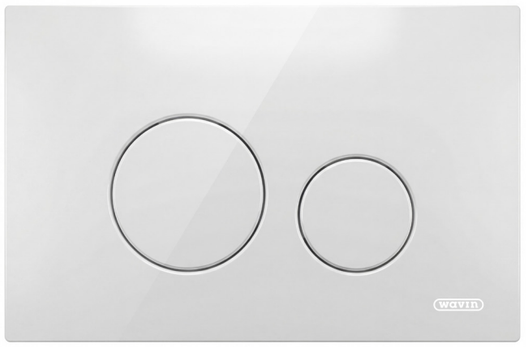
Building owners, planners and architects choose robust, future-proof technology with high utility value with Wavin's pre-installed WC systems. There is also something else that is important to room designers and users: Look, feel and design of the controls. With Wavin, you are not only on the safe side behind the wall, but also in front of the wall: We offer a full portfolio of high-quality push plates for our toilet systems. From classic plastic variants, to elegant glass and stainless steel versions, to special solutions with aseptic coating, contactless operation, LED strips and electronic connection to smart home systems.



LaLinea Core

Classic beauty in 11 variants.
Good design leaves no questions unanswered when it comes to use. As with the push plates in the Linea Core series: Two round plastic buttons of different sizes clearly indicate the integrated dual flushing system. Framed in a robust plastic front panel for easy maintenance.

The supplied mounting frame and the complete installation and fastening material help to assemble the push plate without tools.



White
4085383

Variants



Matte black
102-000000412



Chrome gloss
40853251



Chrome matte
4085327



Matte black/ copper
4085328



Matte gold/ matte black
4085329



Matte gold
4085372



Copper
4085324



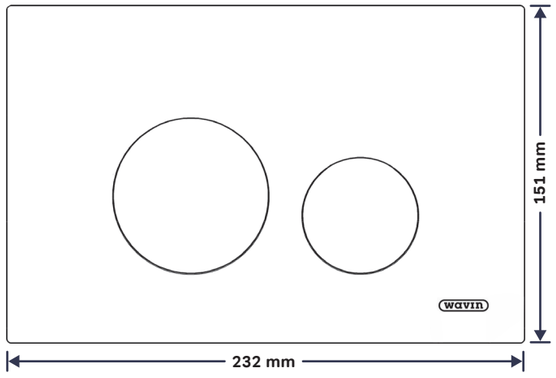
Graphite
4085326



Copper/matte black
4085329



Matte black Matte gold
4085331



Dimensions

Height:	150 mm
Width:	230 mm
Depth:	6 mm

Product description

- Plastic front plate
- Plastic handle buttons
- Includes mounting frame
- 2-quantity flushing
- Complete assembly and fastening material
- Tool-free assembly
- Easy to clean and maintain

Note
A double panelling (at least 25 mm) is required.

Matching urinal plates
Wavin offers urinal plates in the same design for these push plates. See page 61 for an overview of the variants.

Installation instructions
can be found under the following link:



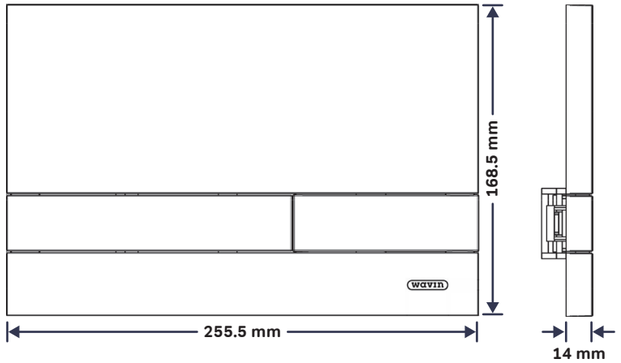
Product description

- Plastic front plate
- Plastic handle buttons
- Includes mounting frame
- 2-quantity flushing
- Complete assembly and fastening material
- Tool-free assembly
- Easy to clean and maintain

LaLinea Select

Reduced design, versatile design.
The Linea Select range of push plates sets standards in formal reduction: A discreet narrow band of two buttons indicates the operation of the dual flushing system. The button and front plate are made of easy-care, robust plastic. For long-lasting enjoyment when used in each of the 15 colour variants. The supplied mounting frame and the complete installation and fastening material help to assemble the push plate without tools.





Dimensions

Height:	168 mm
Width:	255 mm
Depth:	14 mm

Variants



Matte black
4085378



Matte white
4085379



Chrome matte
4085382



Graphite
4085376



White/black
4085375



White/chrome matte
4085334



Matt gold
4085384



Gold/matte black
4085356



White/chrome gloss
4085323



Chrome gloss
4085377



Chrom steel
4085381



Copper
4085374



Matte black/gold
4085345



Matte black/ copper
4085369



Copper/matte black
4085367

Note
Other colours on request.

Matching urinal plates
Wavin offers urinal plates in the same design for these push plates. See page 63 for an overview of the variants.

Installation instructions
can be found under the following link:



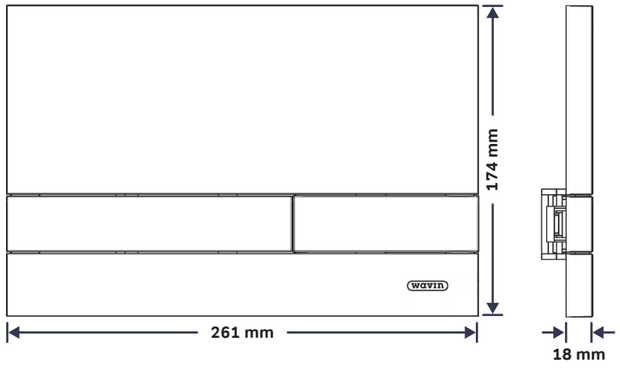
Product description

- Glass front panel
- Glass push buttons
- Plastic base plate
- Includes mounting frame
- 2-quantity flushing
- Tool-free assembly
- Complete assembly and fastening material
- Easy to clean and maintain

LaLinea Select 2.1 (glass front)

Special objects are placed behind glass.
Those who value glass not only for mirrors or shower partitions, but also for the pressure plate, will find the right solution in the Linea Select 2.1 series. The button band of the dual flushing system and the front plate are made of high-quality glass – over a plastic base plate. The glass surface not only makes a shiny impression in the bathroom, but is also particularly easy to clean.
The supplied mounting frame and the complete installation and fastening material help to assemble the push plate without tools.





Dimensions

Height:	174 mm
Width:	261 mm
Depth:	18 mm

Variants



Matte white
4085321



Matte black
4085284



Mirror graphite
4085282



Black classic
4085320



Mirror bronze
4085283



Black metallic
4085322

Note
Other colours on request.

Matching urinal plates
Wavin offers urinal plates in the same design for these push plates. See page 64 for an overview of the variants.

Installation instructions
can be found under the following link:



LaLinea Sense

Make impression with touchless technology.
Approaching the push plates of the Linea Select series triggers the small flushing of the Dual system without contact. This is ensured by an integrated proximity sensor. The button is only briefly touched to activate double flushing. This mode of operation is ideal for public, heavily used toilets. In addition to the plastic version, the Linea Select push plates are also available in a particularly high-quality version, where the button band and front plate are made of brushed stainless steel. Both versions are easy to clean and maintain.



Stainless Steel
4085386

Variants



Matte white
4085321



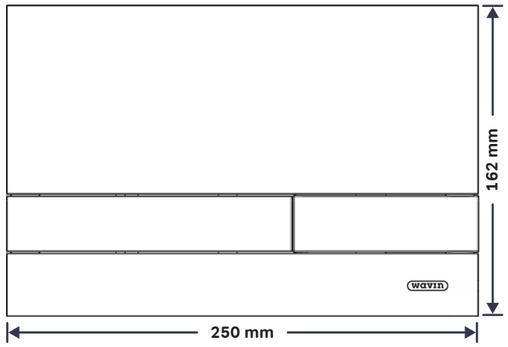
Gloss chrome
4085303

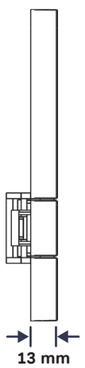


Black
4085281

Other advantages and features:

- Rinsing volume for manual flushing adjustable between 6 l and 4 l
- Automatic hygiene flushing after 24 hours of non-use
- Parameter settings via remote control
- Includes mounting frame, electronics module, and lever bearing
- Without power supply unit (connection voltage: 24 V DC)





Dimensions
Height: 162 mm
Width: 250 mm
Depth: 13 mm

Product description

- Plastic front panel and handle buttons
- Includes mounting frame
- Includes electronics module
- Includes Lever bearing
- 2-flow flushing by touch-pressing the large button
- Flushing volume can be set in a range of 6 L and 4 L for manual flushing
- Automatic hygiene flushing after 24 hours of non-use
- Without power supply unit (connection voltage 24 V DC)

Product description stainless steel

- Front panel and handle buttons made of brushed stainless steel
- Includes mounting frame
- Includes electronics module
- Includes Lever bearing
- Small flushing = minimal dwell time in the sensor area: 7.5 seconds to a maximum of 45 seconds
- Large flush = minimal dwell time in the sensor area: 45 seconds
- 2-flow flush by touch actuation of the small button
- Parameter settings via remote control
- Easy to clean and maintain
- Ideal for public areas
- Without power supply unit (connection voltage 24 V DC)

Matching urinal plates
Wavin offers urinal plates in the same design for these push plates. An overview of the variants can be found on pages 63–64.

Installation instructions LaLinea Sense can be found under the following link:

Installation instructions LaLinea Sense stainless steel can be found under the following link:

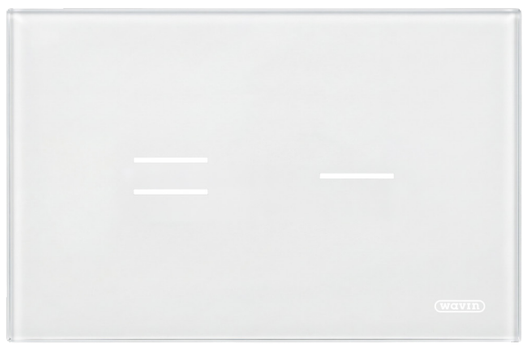


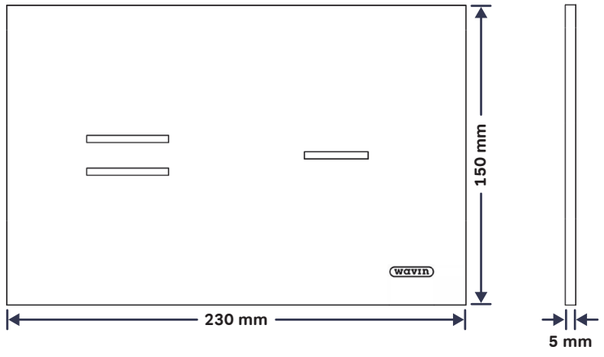
LaLinea Pulse

LED signals touchless flushing.
How contemporary and elegant can a push plate be? The Linea Pulse series sets a bright example here. It combines high-quality design with innovative functions: The touchless flushing system is indicated by LED signals. Only double flushing is activated with a direct touch on the control panel. While the plastic version was developed for private living, the stainless steel version is suitable for public sanitary installations. Ideal for toilets in hotels, office buildings or public areas: After 24 hours of non-use, an automatic hygiene rinse is triggered.

The entire system under a glass front panel is easy to clean and maintain.

- Includes mounting frame, electronics module and lever bearing
- Without power supply unit (connection voltage: 24 V DC)





Product description

- Glass front panel
- Includes mounting frame
- Includes electronics module
- Includes Lever bearing
- 2-flow rinsing via touch operation
- Flushing volume 6 L and 3 L
- Compl. assembly and fastening material
- Automatic hygiene rinse after 24 hours of non-use
- Easy to clean and maintain
- Without power supply unit

Dimensions

Height:	150 mm
Width:	230 mm
Depth:	5 mm

Variants

Glass white classic
4085314



Glass black classic
4085318

Installation instructions
can be found under the following link:



LaLinea Select 2.0 aseptic

Impressive across the board. Also against germs.
Bathrooms and guest toilets are places where hygiene plays a crucial role. With the Linea Select 2.0 aseptic series, the matching, easy-care push plates are available. The two buttons for the dual flushing system and the entire surrounding plastic surface have a special additive. It prevents the growth and spread of bacteria and has a germicidal effect – confirmed by TÜV Rheinland!
The supplied mounting frame and the complete installation and fastening material help to assemble the push plate without tools.



White aspetic
4085380

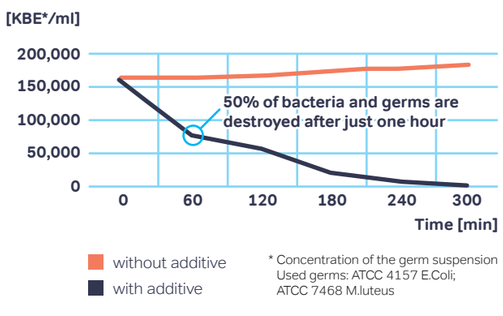
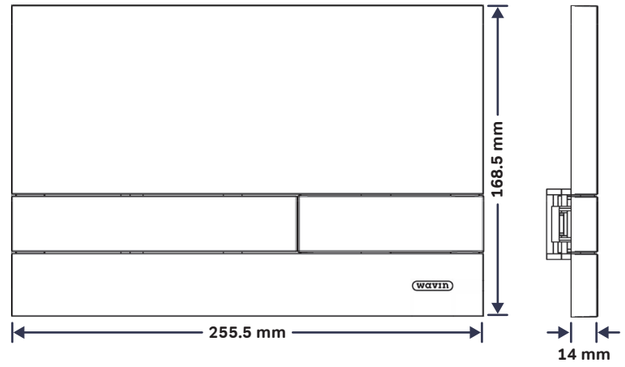


Illustration 11: Depiction of germ destruction over time

Product description
- Plastic front plate
- Plastic handle buttons
- Additive in plastic sustainably destroys bacteria and germs
- Confirmed effectiveness by TÜV Rheinland
- Includes mounting frame
- 2-quantity flushing
- Compl. assembly and fastening material
- Tool-free assembly
- Easy to clean and maintain

Note
Hygienically safe germicidal – TÜV-tested



Dimensions

Height:	168 mm
Width:	225 mm
Depth:	14 mm

Matching urinal plates
Wavin offers urinal plates in the same design for these push plates. See page 61 for an overview of the variants.

Installation instructions
can be found under the following link:

Antibacterial properties, natural protection.

Protection plate

Due to antibacterial substances, bacteria cannot multiply in wood.

Birch and spruce wood
These woods have natural antibacterial properties that differ from other woods such as maple or beech.

Wavin push plates



LaLinea Core Urinal



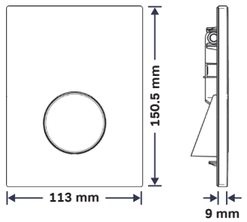


White
4085332

Matte black
4085336

Chrome matte
4085333

Chrome gloss
4085335



Product description

- Plastic front panel
- Plastic handle buttons
- Includes mounting frame
- Contains mechanical plastic cartridge with integrated orifice prefilter
- Adjustable water volume between 1 and 6 litres
- Compl. Assembly and fastening material
- Tool-free assembly
- Easy to clean and maintain

Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 9 mm

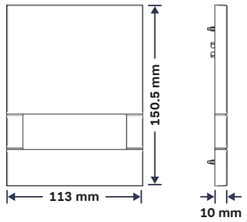
LaLinea Select 2.0 aseptic urinal



White aspetic
4085380

Product description

- Plastic front panel
- Plastic handle buttons
- Additive in plastic sustainably destroys bacteria and germs
- Confirmed effectiveness by TÜV Rheinland
- Includes mounting frame
- 2-quantity flushing
- Compl. assembly and fastening material
- Tool-free assembly
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

Note
Hygienically safe germicidal – TÜV-tested

Technical details:

LaLinea Select urinal with manual operation



White
4085285



Matte black
4085287



Chrome matte
4085288



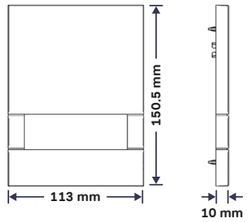
Chrome gloss
4085286



Chrome steel
4085289

Product description

- For Select flushing valve with installation kit
- Plastic front panel
- Plastic handle buttons
- Includes mounting frame
- Includes mechanical plastic cartridge with integrated nozzle bore prefilter
- Adjustable water volume between 1 and 6 litres
- Compl. Assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

LaLinea Select Urinal 2.1 (Glass Front)



White
4085290



Matte white
4085293



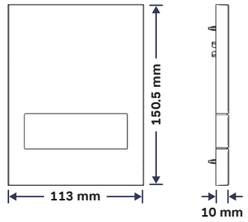
Matte black
4085291



Black classic
4085294

Product description

- For Select flushing valve with installation kit
- Glass front panel
- Plastic base plate
- Plastic handle buttons
- Includes mounting frame
- Includes mechanical plastic cartridge with integrated nozzle bore prefilter
- Adjustable water volume between 1 and 6 litres
- Compl. assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

Technical details:

LaLinea Sense Urinal 6 V



White
4085301



Matte chrome
4085302



Chrome gloss
4085304



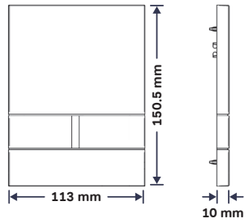
Matte black
4085305



Chrome steel
4085306

Product description

- Non-contact flushing system
- For Sense flush valve with installation kit
- Plastic front panel and handle buttons
- Includes mounting frame
- Includes CR-P2 lithium battery
- Includes electronics module
- Includes solenoid valve with pre-filter
- Includes diagnostic light in the sensor window
- Includes Diode for battery status and range adaptation
- Battery compartment integrated in the mounting frame
- Flushing volume adjustable in 4 stages (0.7; 1; 2; and 3 litres)
- Automatic hygiene flush after 24 hours of non-use
- Stadium mode with automatic detection, can be switched on and off
- Compl. assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

LaLinea Sense Urinal 6V (Glass Front)



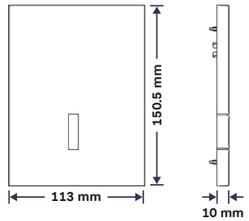
White
4085304



Black classic
4085310

Product description

- Non-contact flushing system
- For Sense flush valve with installation kit
- Glass front panel
- Plastic base plate
- Includes mounting frame
- Includes CR-P2 lithium battery
- Includes electronics module
- Includes solenoid valve with pre-filter
- Includes diagnostic light in the sensor window
- Includes Diode for battery status and range adaptation
- Battery compartment integrated in the mounting frame
- Flushing volume adjustable in 4 stages (0.7; 1; 2; and 3 litres)
- Automatic hygiene flush after 24 hours of non-use
- Stadium mode with automatic detection, can be switched on and off
- Compl. assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

Technical details:

LaLinea Sense Urinal 230 V



White
4085296



Matte chrome
4085297



Chrome gloss
4085298



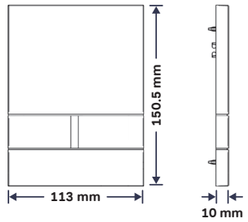
Matte black
4085299



Chrome steel
4085300

Product description

- Non-contact flushing system
- For Sense flush valve with installation kit
- Plastic front panel and handle buttons
- Includes mounting frame
- Mains power: 100–230 V AC, 50–60 Hz
- Includes power supply pack
- Includes electronics module
- Includes solenoid valve with pre-filter
- Includes diagnostic light in the sensor window
- Includes range adjustment
- Flushing volume from 0.7 to 3 litres
- Automatic hygiene rinse after 24 hours of non-use
- Stadium mode with automatic detection, can be switched on and off
- Compl. assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

LaLinea Sense Urinal 230V (Glass Front)



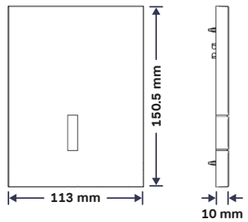
White
4085311



Mirror graphite
4085312

Product description

- Non-contact flushing system
- For Sense flush valve with installation kit
- Glass front panel
- Plastic base plate
- Includes mounting frame
- Mains power: 100–230 V AC, 50–60 Hz
- Includes power supply pack
- Includes electronics module
- Includes solenoid valve with pre-filter
- Includes diagnostic light in the sensor window
- Includes range adjustment
- Flushing volume from 0.7 to 3 litres
- Automatic hygiene rinse after 24 hours of non-use
- Stadium mode with automatic detection, can be switched on and off
- Compl. assembly and fastening material
- Easy to clean and maintain



Dimensions

Height: 150.5 mm
Width: 113 mm
Depth: 10 mm

Technical details:

Practical tips:

"The bathroom plays an increasingly important role in the design of the rooms in an apartment, apartment block or hotel, for example. It has long been more than a functional space, but is increasingly becoming a private spa. From a technical point of view – and this starts behind the wall – everything must correspond to the status quo, also in terms of sound insulation and be future-proof. However, as an architect, I also care about the look. Right down to the details. It's not to be underestimated what a difference a beautifully designed, highly functional push plate makes. It acts as the owner's business card for everyone who uses the bathroom. My tip for you when planning and installing bathrooms: Choose a system solution from a single source. That you get the piping, toilet technology and push plates from one supplier if possible. This saves time, reduces the risk of errors and is usually even cheaper than the sum of several partial solutions."

Michael P., Architect



Practical tips

- **Technical backbone for creative freedom**
  The modules allow you to design modern toilets and bathrooms with freely customizable visible surfaces. This makes it possible to impressively combine serial efficiency and individual spatial effect in rental properties as well as hotels.
- **Integrate early into the design planning**
  Plan LaLinea WC modules as early as the concept and preliminary design phase. Dimensions and connections influence room proportions, furnishings and piping. Taking the modules into account at an early stage avoids subsequent compromises and can structure floor plans in a clearer, more economical and repeatable way.
- **Consolidate installation zones and think vertically**
  Especially in hotels and multi-family homes, Wavin LaLinea's pre-installed WC modules allow for precise consolidation of installations across multiple floors. Deliberately use this feature to optimize manholes, shorten cable paths and simplify maintenance.
- **Actively utilize sound insulation and maintenance-friendly features**
  High-quality pre-wall systems offer tested sound insulation values and easily accessible inspection openings. Use these advantages in a targeted manner, especially in rental apartments and hotel rooms with high comfort requirements.

Products overview



LaLinea WC Basic Element
4085337



LaLinea WC Element Easy
4085338



LaLinea WC Element Premium
4085339



LaLinea WC Nordic P/P
4085341



LaLinea WC Element 450
4085340



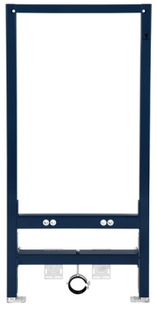
LaLinea WC Barrier free
4085342



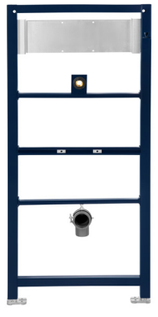
LaLinea WC Element Wet light
4085350



LaLinea Washbasin Element
4085344



LaLinea Bidet Element
4085344



LaLinea Urinal
4085346

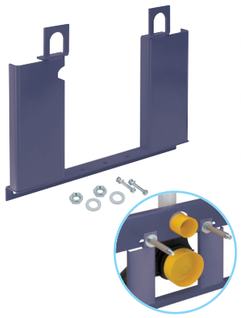


LaLinea Sink Element
4085348



LaLinea Shower and Bathtub
4085349

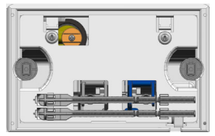
Spare Parts & Accessories



LaLinea crossbar for shortened ceramics
For use with shortened ceramics when the load cannot be transferred via the crossbars (support surface too small).
4085347



LaLinea footrests for underfloor heating
4085351



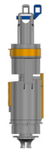
LaLinea splash guard plate
4085352



LaLinea Filling Valve Spare Part Kit
4085353



LaLinea O-ring (10 pack)
4085354



LaLinea Drain Valve 2.0
4085355



LaLinea End Panels (for drain valve)
4085357



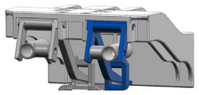
LaLinea Lip Seals Drain Valve (Basket)
4085358



LaLinea Lip Seals Flush Pipe
4085359



LaLinea quick bolt adjustment
4085360



LaLinea lever bearing
4085361



LaLinea Soundproofing Set
4085362



LaLinea Multi-wall Holder Short
Depth 135-185 mm
4085363



LaLinea Multi-wall Holder Long
Depth 175-300 mm
4085364



LaLinea Purge Flow Restrictor
4085366



LaLinea Spare Parts Box
4085316



LaLinea Ball Valve
4085317



No car drove further
Irv Gordon bought a Volvo P1800 in 1966 – and drove it until his death in 2018. The mileage: 3,250,257 miles. That's 5.23 million kilometers.



Limited warranty and limitations of liability

Limited warranty
The products are warranted to be free from defects in material and workmanship under normal use in Wavin Wall Systems for a period of ten years from the date of purchase ("Warranty"). For this warranty to be valid, the products must be handled, stored and installed in accordance with the instructions in this product brochure. As further explained in section 7.5 of our Terms of Sale (which are part of this warranty by reference), this warranty does not apply to third party components and damage caused by improper handling, storage, transport or installation of the products (including installation in applications other than Wavin Wall Systems).

Claims under this warranty must be made in writing and submitted to the seller immediately after discovery of the defect, but no later than ten years after the date of purchase. To make a claim under this warranty, any product that is allegedly defective must be made available to the seller for inspection, examination and testing.

If the seller confirms that the product is defective, the exclusive remedy for breach of this warranty shall be limited to (1) replacement of the defective product or (2) refund of the purchase price. Seller shall not be liable for the cost of removal or reinstallation in respect of a replaced product. The choice of the remedies mentioned is at the sole discretion of the seller and shall be deemed to be the final decision. This warranty is the sole and exclusive warranty provided by the seller. To the extent this warranty conflicts with our terms of sale, the terms of this warranty shall prevail. This warranty may only be amended or supplemented by a written declaration signed by the seller's representative.

LIMITATION OF LIABILITY
FOR THE AVOIDANCE OF DOUBT, SELLER'S LIABILITY FOR ANY LOSS OR DAMAGE, WHATEVER ITS CAUSE AND UNDER ANY LEGAL OR REASONABLE THEORY (INCLUDING WITHOUT LIMITATION BREACH OF CONTRACT, BREACH OF WARRANTY, ORDINARY, REASONABLE OR CONTRACTUAL COMPENSATION, NEGLIGENCE OR TORT) SHALL BE STRICTLY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT.

ALL IMPLIED WARRANTIES ARE HEREBY EXCLUDED AND WAIVED. THIS LIMITED EXPRESS WARRANTY SUPERSEDES ALL OTHER WARRANTIES, GUARANTEES AND AGREEMENTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND/OR THE NON-INFRINGEMENT OF THIRD PARTY RIGHTS. SELLER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME ANY OTHER OBLIGATIONS OR LIABILITIES FOR SELLER IN CONNECTION WITH THE PRODUCTS. IN NO EVENT SHALL THE SELLER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

Choice of law and place of jurisdiction
This warranty shall be governed by and construed in accordance with the laws of the jurisdiction in which the seller is registered, excluding its conflict of laws rules. The parties acknowledge and agree that the applicability of the United Nations Convention on Contracts for the International Sale of Goods (often referred to as Vienna Sale of Goods) is expressly excluded. Should any limitation or exclusion be deemed unenforceable, the seller's liability shall be limited to the maximum permitted by law.

All disputes relating to the products or this warranty shall be settled exclusively by the competent courts of the state in which the seller is established, and you and the seller agree to the personal jurisdiction of such courts.

10-year warranty registration form

wavin
An Orbia business.

E-mail: technik.de@wavin.com

Construction project* Name: _____

Street: _____ Postcode/Town: _____

Installer* Company: _____

Street: _____ Postcode/Town: _____

Planner Company: _____ Postcode/Town: _____

Architect Company: _____ Postcode/Town: _____

Dealer Company: _____ Postcode/Town: _____

Type of property*

- ○ Living unit
- ○ Apartment building
- ○ Residential complex
- ○ Office/administrative building
- ○ Public buildings
- ○ Department store/store
- ○ School
- ○ Nursery school
- ○ Bank
- ○ Sports hall
- ○ Hospital
- ○ Medical practice
- ○ Nursing home
- ○ Production facility
- ○ Church
- ○ Museum
- ○ Swimming pool
- ○ Other _____

System(s)* _____ Quantity _____

Please specify the system for which a declaration of liability is to be issued.

Required supporting documents (at least 1)*

Invoice copy

- ○ _____
- ○ _____
- ○ _____

Installation and commissioning*

○ System ready for use on _____ ○ error-free

We hereby confirm that the Wavin LaLinea products in the above-mentioned construction project have been installed and put into operation in accordance with the current planning, assembly and operating guidelines prescribed by Wavin and that the system has been created by a registered and qualified specialist company.

_____

Signature and stamp of specialist company

_____

Client's signature

By signing this document, the installer accepts the scope of Wavin's General Terms and Conditions of Sale and Delivery as published at www.wavin.de.

Warranty declaration no. _____

Date _____

To be completed by Wavin.

Wavin assumes liability in accordance with the warranty conditions for Wavin LaLinea and is liable for a period of 10 years after the commissioning of the Wavin LaLinea products. This warranty is valid towards the specialist company, provided that the client asserts claims against the specialist company.
The warranty declaration is only valid if it is completely filled out, signed, and a warranty number has been issued by Wavin GmbH.
To confirm with Wavin, the declaration must be sent to Wavin GmbH (E-Mail: **technik.de@wavin.com**) within three months after commissioning.

*** Mandatory fields**

Wavin BIM Revit





Future-oriented project planning – Revit files with "intelligent wizards"

We offer BIM Revit files with an integrated "intelligent wizard".
In Germany, these are available free of charge for the following systems:



› **Wavin Tigris** – Installation pipe system



› **Wavin AS+** – Premium soundproof pipe system



› **Wavin SiTech+** – Comfort soundproofing pipe system



› **Wavin LaLinea** – Wall System

Where can I find what?

Simply download Wavin BIM data:
Visit our homepage **wavin.com** or enter **wavin.com/global/en/tools-services/bim-revit** directly into your browser's address bar to quickly and easily download our BIM packages.

We will keep you up to date once you have logged in, for example, if new data packages or updates are available.

Our benefits

In addition to the high quality of our files, we naturally offer other BIM-related services:

- › All products preconfigured
- › Automatic testing of standard-compliant assembly (e.g. crown/sole)
- › Automatic correction of pipe routing

YouTube

You can find videos of our BIM Revit files on our YouTube channel and on our homepage:
youtube.com/@WavinGlobal

Notes

Notes

Discover our wide portfolio at wavin.com

- Drinking water distribution
- Wastewater disposal
- Climate control solutions
- Solutions for the climate resilience of cities



orbia

Building & Infrastructure

wavin

Wavin is part of Orbia, a community of companies working together to solve some of the world's most complex challenges. We share a common goal: Improving the global standard of living.

Orbia's Building & Infrastructure division, Wavin, is an innovative solution provider for the global construction and infrastructure industry. With more than 60 years of experience in product development, Wavin is committed to improving lives around the world by creating healthy and sustainable environments for citizens. Whether improving the distribution of clean drinking water, increasing access to sanitation for all, creating climate-resilient cities or designing comfortable living spaces: Wavin works with municipal decision makers, engineers, contractors and installers to foster future-proof communities, buildings and houses. Wavin employs more than 12,000 people at 65 production sites worldwide and has a global distribution network in more than 80 countries.

Wavin GmbH Industriestr. 20 | 49767 Twist, Germany
Internet www.wavin.com | E-mail info@wavin.com

© 2026 Wavin Wavin reserves the right to make changes without prior notice. Technical changes may occur due to continuous product development. The installation must comply with the installation instructions.

03–2026 EN