

GROHE SANITARY SYSTEMS

Innovative technologies and concepts
www.grohe.com



GROHE
ENJOY WATER®



GROHE SANITARY SYSTEMS

Rapid SL and Uniset, WC and urinal fittings

Ecologically sensible: GROHE fittings use water very sparingly.

Economically convincing: a low water consumption means high efficiency.

Smart use of space is key to success in contemporary bathroom planning. To make sure the new bathroom is fit for the future, too, it should be designed around a full set of water-saving fittings which emphasise its sustainable character and long-term functionality. Be sure to add some sophisticated illumination to create a pleasant atmosphere to relax and enjoy.

Convince your customers of the water-saving WC and urinal fittings plus clever installation systems such as Rapid SL and Uniset for optimum design and rapid, clean installation.

SANITARY SYSTEMS



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RAPID SL

UNISET

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GROHE INSTALLATION SYSTEM

Whether it be in a new building or for a modernisation project: you will obtain perfect wall installation systems for designing bathrooms and sanitary modules using Rapid SL and Uniset from GROHE.

Rapid SL - for modern dry cladding - permits rapid and clean alterations almost without any soiling in just a few days. Even luxurious bathrooms can become reality using the combinable programme Rapid SL.

Uniset is the ideal system when traditional masonry work is to be done and where speed is of the essence, even though great flexibility is to be practised for the different installation situations.





GROHE RAPID SL

Rapid SL is a universal programme for dry cladding for WC, wash basin, urinal, bidet, shower and bath tub in the installation heights 1,30 m, 1.13 m, 1.00 m, 0.82 m - either for individual or row installation. It can be utilised in front of solid walls as well as in front of or in studded wall partitions. The elements are completely pre-assembled for WC and urinal, for instance with a flushing cistern which is not only exceedingly easy to install, but can also be fitted with the attractive small cover plates measuring just 156 x 197 mm. The clever rapid height adjustment, small structural depth and TÜV symbol as well as certification for noise protection characterise the high quality of Rapid SL.

Rapid – for modern dry cladding – permits rapid and clean alterations almost without any soiling in just a few days. Even luxurious bathrooms can become reality using Rapid SL.



GROHE RAPID SL

FLEXIBLE, RAPID AND SAFE

Rapid SL is a first-class installation system offering superior functions and features. **GROHE QuickFix™** ensures flexible installation, shorter installation times and a straightforward realisation of highly varied sanitary floorplans. At the same time, **GROHE Whisper®** technology offers even more comfort for the eventual users of the facility. The Rapid SL elements, which are sonically separated from the installation wall, and minimum-noise fittings satisfy even demanding customers.

Economical, ecological, hygienic.

- For all sanitary objects
- Individual and row on-the-wall installation
- Room-high installation in wood or metal studded wall partitions with the current dimensions
- Free-standing installation or installation in front of "weak" walls
- One discharge valve for all flushing functions such as dual flush, start/ stop and single flush.





GROHE Whisper®

means optimum noise protection for adjacent rooms. Thanks to low-noise fittings and decoupled pipe mountings, no noise is transmitted to the solid walls of the building.



Safety

provides for perfect safety. The high load-carrying ability and stability of the elements of more than 400 kg has been confirmed by the German TÜV.



GROHE QuickFix™

ensures flexible installation, shorter installation times and a straightforward realisation of highly varied sanitary floorplans.



SpareFlush

resolves flushing problems occurring with older waste water lines or while rinsing WCs. In addition to a flushing quantity of 6 litres, there is always a 3 litre safety flushing quantity available.



GROHE RAPID SL

THE ADVANTAGES AT A GLANCE



Element	
Points for securing the on-the-wall installation accessories, depth adjustment from the front and swivelling wall brackets
Points for securing studded wall partitions and element cladding
Universal for individual and row installation as well as for utilisation in lightweight studded wall partitions
Powder-coated surface
Noise separation of fittings and fixing devices according to DIN 4109
DN 80 outlet bend with reducer DN 80/100
Load capacity 400 kg for WC, 150 kg for wash basin
200 mm height adjustment
For 50/75 mm deep C profiles and element rails, element installation without fixing on the floor



Flushing cistern

Shaft for the installation of pipes at the back, water inlet from the left/right or back

1/2" water inlet can be installed without tools with angle stop valve, replaceable spindle.

Tool-free latching of inspection shaft, frame for actuation plate is mounted with two screws only, for vertical oder horizontal use

Pneumatic discharge valve with only one hose connection offering 3 modes of operation:

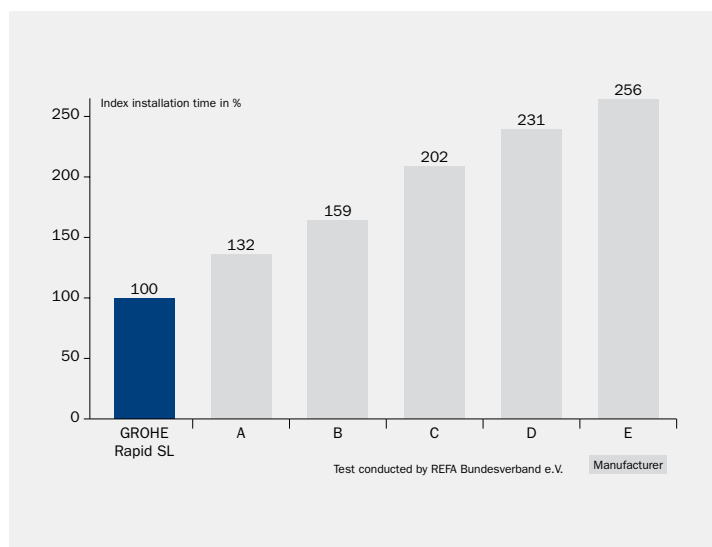
- Dual flush
- Start & stop
- Single flush

GROHE RAPID SL FIRST PRIZE AS QUICKEST INSTALLATION SYSTEM IN PRACTICAL TEST

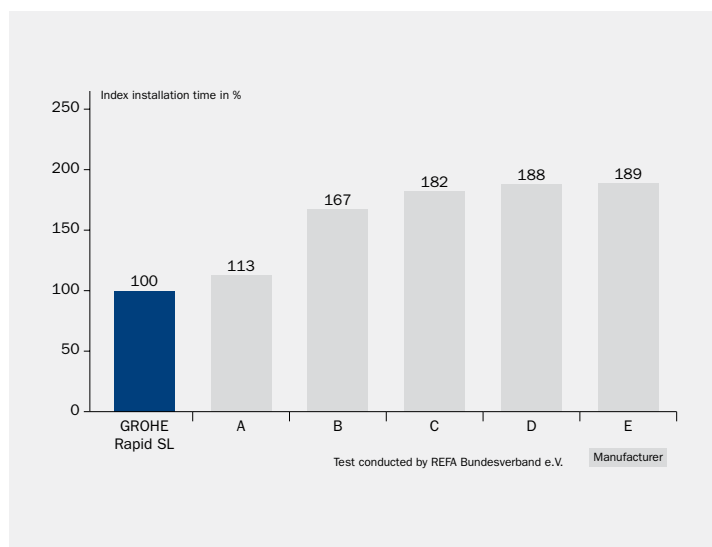
Simple and safe installation for qualified fitters: the faster assembly is, the easier it is. GROHE subjected the Rapid SL installation system for dry cladding for WCs to a practical test conducted by an independent institute with the products of five other leading manufacturers.



The REFA labour time evaluation commissioned by GROHE was based on a comparison of the installation times and procedures for six installation systems for dry cladding from leading manufacturers. The practical test was first conducted in 2007 and updated by a follow-up test under the same conditions in 2009 and 2011. The installations were performed by qualified fitters designated by the Dortmund Chamber of Skilled Crafts. 5 rough installations and 7 final installations were performed on trial walls for each make. The fitters took turns and worked under otherwise identical conditions. Complete test report at www.grohe.com



Complete on-the-wall installation WC elements for dry-cladding with actuation



Complete installation on studed walls WC elements for dry-cladding with actuation



Over 30% time saving compared to the runner-up, with the lead over the mid-range even at 100% or more.



Up to 90% time gain possible compared to the tested competitors' products. Assuming 1.000 installed WC elements, the total labour time saved amounts to more than five complete working weeks per year!

GROHE RAPID SL AND AV1 MULTI-FUNCTIONAL AV1 DISCHARGE VALVE FOR EVEN FASTER INSTALLATION

Rapid installation and universal connections are characteristic of this concealed flushing cistern. The recess at the back of the cover for connection from the rear, as well as the other possible connections from left or right, and the water connection which can be installed most conveniently without requiring tools - this cistern leaves absolutely nothing to be desired by the plumber.

Add to this the more attractive small cover plate, the security of a flushing cistern with a capacity of 6 - 9 litres and the optimum pneumatic actuation with its easy installation. All in all: considerable added value for both the plumber and the user.

The functional features make Rapid SL and Uniset one first-class installation system.

As the AV1 is connected only by a pneumatic hose at the back of the actuation, installation is faster and safer, too - with no risk of confusion. GROHE QuickFix™ provides for flexible and time-saving installation thanks to quick height adjustment, 360° swivelling wall mounting and the new discharge valve AV1 and inspection chamber. Thanks to GROHE EasyConnect simply connecting the hose is sufficient. And there is no need for measuring or cutting, either.

Another great time saver is the fact that the frame for the actuation plates is fixed directly to the component. A separate depth adjustment for the frame is not required, because this is done when the inspection chamber is cut.

The universal AV1 is multifunctional and suitable for all flushing systems - dual flush, start/stop function and single flush.

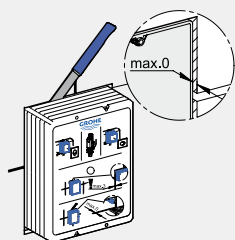


Time saved thanks to the **GROHE VarioPort** with universal water connection from the top, back, right, left, irrespective of the position of the supply line.

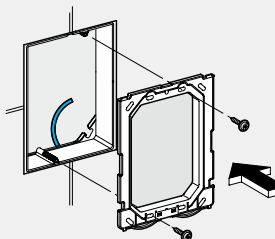
Tool-free installation with **GROHE ToolFree** if the water supply is installed in the flushing cistern.



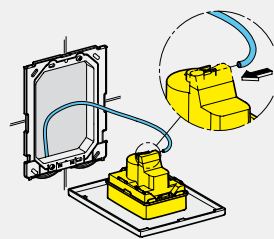
Fixing of the frame for the actuation plate



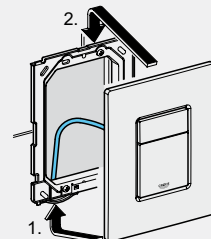
- Cut inspection chamber to match the tile pattern



- Fix the frame directly to the inspection chamber



- Connect pneumatic hose to the actuation



- Install actuation

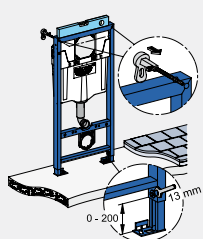


GROHE RAPID SL PERFECTLY INSTALLED IN NO TIME AT ALL

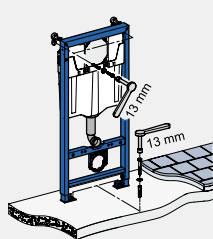
Whether it be traditional on-the-wall installation in front of a solid wall as individual installation - also as space-saving installation at side wall - or row installation, or room-high installation in or in front of lightweight studded wall partitions or as a free-standing installation - Rapid SL helps you achieve your goal rapidly and securely (only 14 minutes for individual installation at the WC, only 10 minutes for row installation at the wash basin elements).

Individual and fast: individual installation.
On-the-wall installation in front of brickwork.

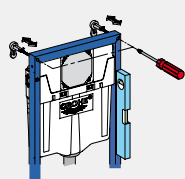
Particularly efficient: row installation on the rail.



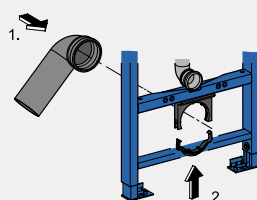
- Draw the measurement lines
- Adjust element height
- Mount wall bracket
- Draw the drilling holes



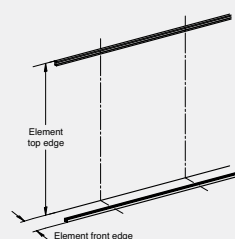
- Drill the fixing holes
- Secure element in place



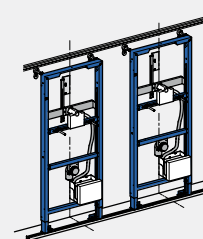
- Align element



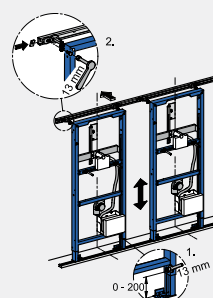
- Mount outlet bend



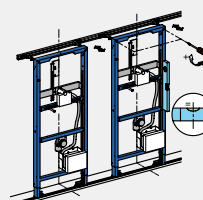
- Install floor and wall rail



- Mount wall bracket
- Place element on base rail
- Secure in place



- Pull up element
- Hang wall mounting and secure

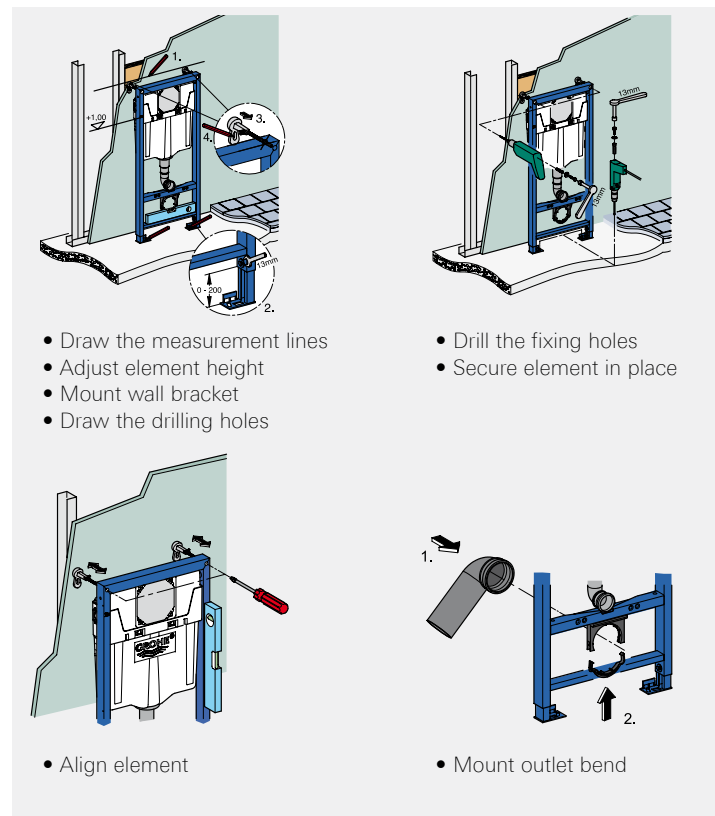
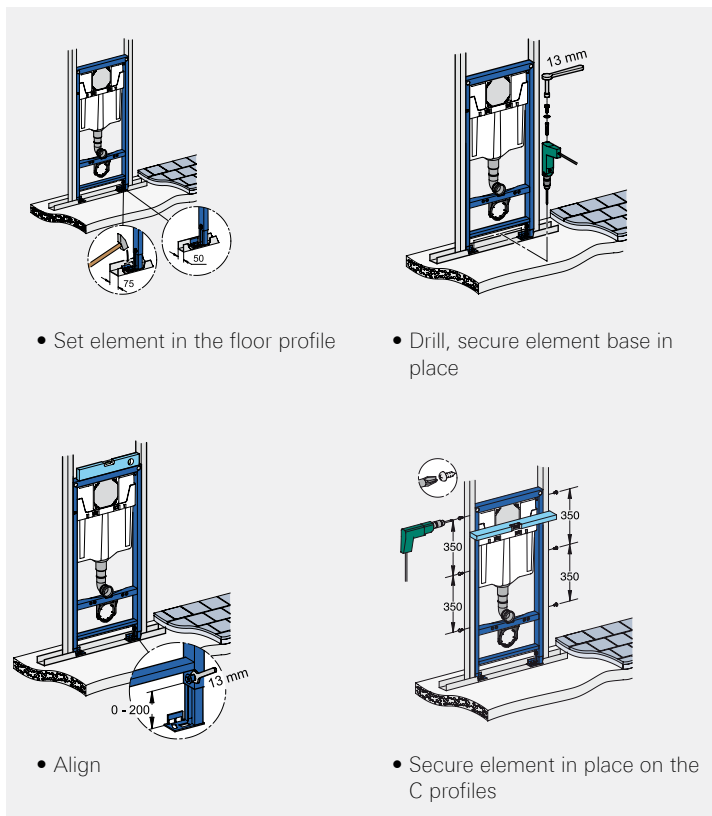


- Align vertically
- Secure lock nuts

Quick and easy: installation in studded wall partitions.



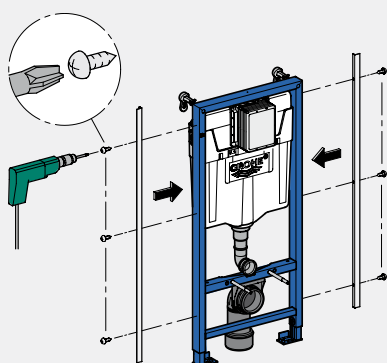
Additional shelf space: installation in front of studded wall partitions.



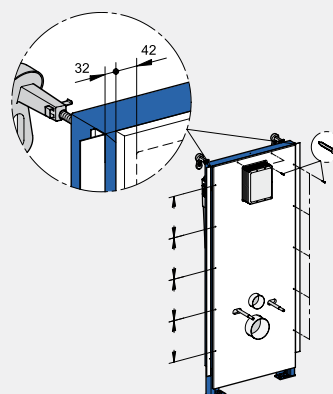
GROHE RAPID SL PREFABRICATED FOR A PRECISE FIT. READY-TO-TILE CLADDING

Rapid SL claddings are ready-to-tile gypsum fibre boards for interior installation. They are delivered to match the different elements - equipped with all required cuts for fitting, fixing, inlets and outlets. This precisely-cut prefabrication offers security as well as easier and more rapid installation. The 12.5 mm-thick claddings are vapor-porous, noise-dampening and water-resistant. They meet the fire protection requirements outlined in DIN 4102 "Behaviour in fire of construction materials and components" and have been classified Construction Materials Class A 2 (not flammable).

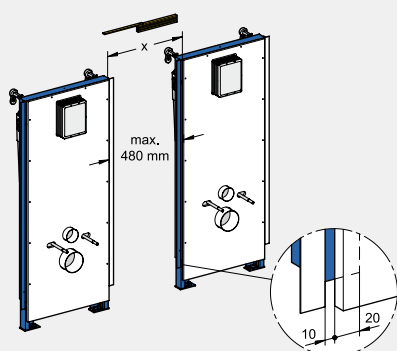
For on-the-wall installations up to 1.13 m.



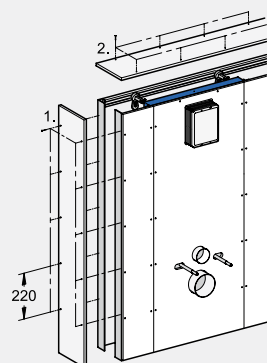
1. Secure the metal profile flush with the front edge of the element using the self-tapping screws.



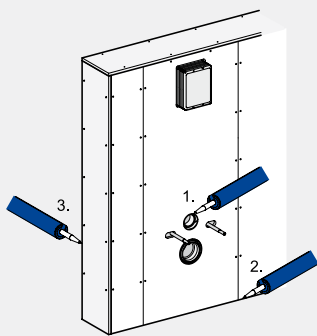
2. Adjust the length of cladding. Secure the cladding in place on the element flush at the top using the self-tapping screws. Leave 10 mm free at the sides as supports for the intermediate claddings. Clearance of 10 mm to floor and wall inlets.



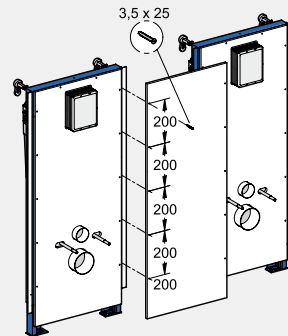
3. Measure out the clearances between the clad elements. Adjust intermediate claddings – they are supported 10 mm on the right and left-hand side supports – and secure them in the metal profiles with the self-tapping screws.



4. Cut side panels to size and secure in place to the wall brackets.
 A) Fixed cover: cut cladding to size and secure in place to the element.
 B) Removable cover: without cladding.



5. Wall and floor inlets are to be sprayed with permanently elastic joint material, as are the wall ductings after tiling has been completed.



Note:

Alternatively the cladding can also be produced using gypsum plaster board measuring 2 x 12.5 mm or gypsum fibre board measuring 1 x 12.5 mm

Surface treatment and insulation:

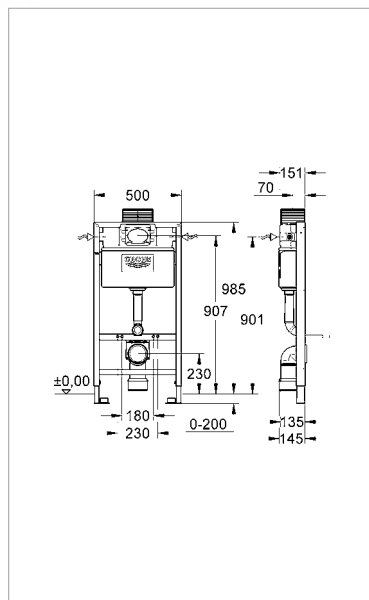
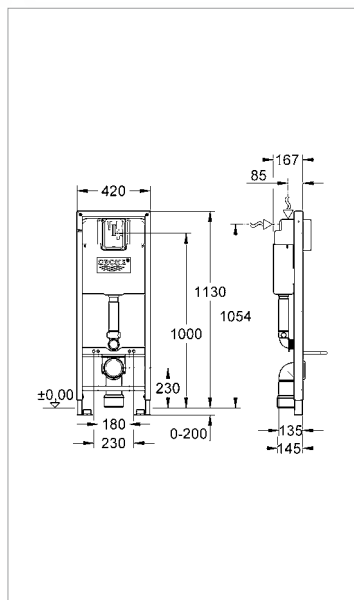
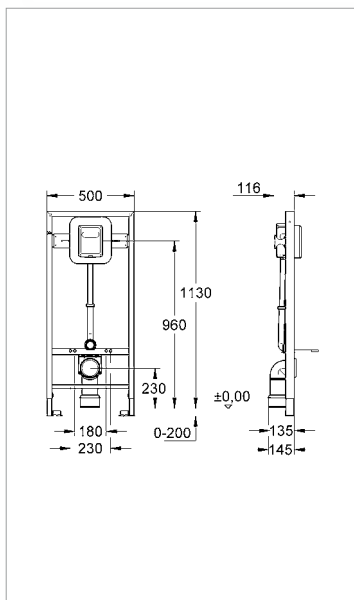
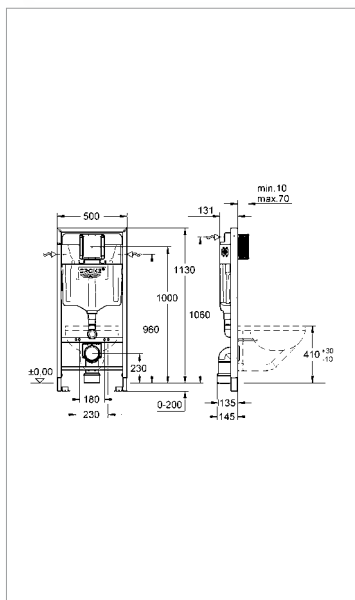
- According to DIN 18195: Buildings must be sealed with sealing film or bituminous sheeting in wet rooms, such as public shower facilities.
- A simple alternative also complies with the state of the art:
 1. Apply a sealing adhesive over the surface, let it dry and then apply thin-bed adhesive for tiles or
 2. Apply a waterproof coating in several layers. Note the manufacturer's directions for the sealants and tile adhesive.

Joining technique for Rapid SL claddings

Joining can be accomplished without spackling and without adhesive if:

- The joint is backed by a profile and they have a directly-fixed connection between them
- The joints are very close together (joint \leq 1 mm) or are filled with tile adhesive
- The surfaces are not higher than 1.20 m
- The surfaces are completely tiled
- The drying times for filling materials, tile adhesive and joint material have been observed.

GROHE RAPID SL FOR WC



38 528 001

Rapid SL for WC

with flushing cistern 6 – 9 l, dual flush/start & stop/single flush, connection from left/right/rear, 1.13 m installation height

38 897 000

ditto 38 528 001, but with vertical support for WC bowls with a bearing area of less than 20 cm

38 519 001

Rapid SL for WC

with flush valve 6 – 9 l, for manual/electrical actuation, 1.13 m installation height

38 713 001

Rapid SL for WC

with flushing cistern 6 l, dual flush/start & stop/single flush, width 0.42 m, 1.13 m installation height

38 525 001

Rapid SL for WC

with flushing cistern 6 – 9 l, dual flush/start & stop/single flush, connection from left/right/rear, 1.00 m installation height, actuation from front/above



GROHE Whisper®

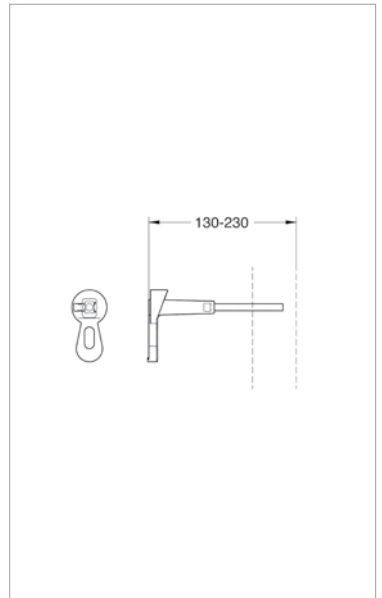
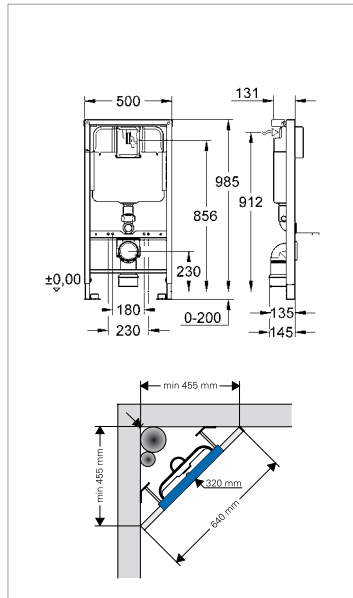
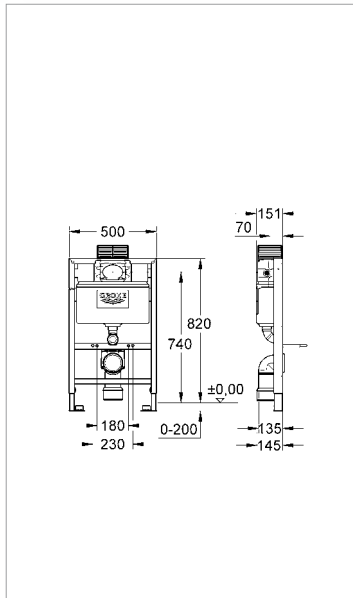
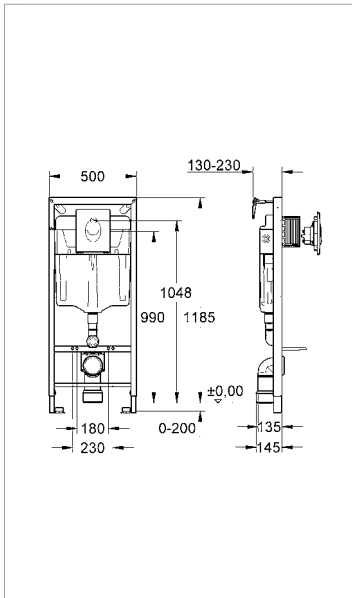


GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush



38 722 001 Rapid SL 3-in-1 set for WC

with flushing cistern 6 - 9 l, dual flush/start & stop/single flush, connection from left/right or rear, 1.13 m installation height, with wall plate Skate Air and accessories for on-the-wall installation

38 764 001 Rapid SL 2-in-1 set for WC

ditto 38 722 001, but without accessories for on-the-wall installation

38 526 000 Rapid SL for WC

with flushing cistern 6 - 9 l, dual flush/start & stop/single flush, connection from left/right or rear, 0.82 m installation height, actuation from front/above

38 898 000

ditto 38 526 000, but with vertical support for WC bowls with a bearing area of less than 20 cm

38 712 001 Rapid SL for WC

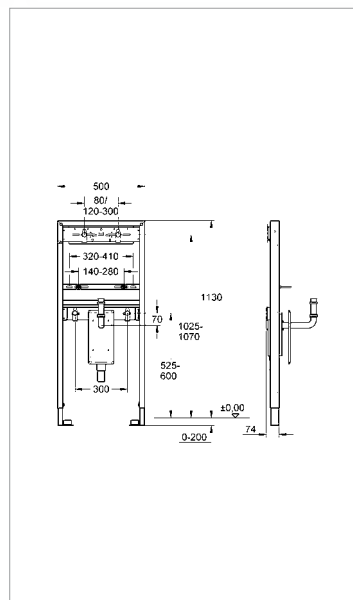
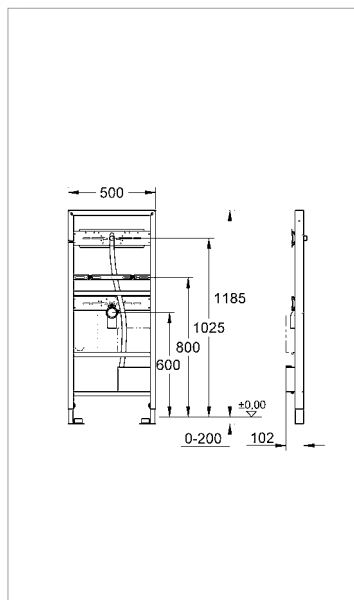
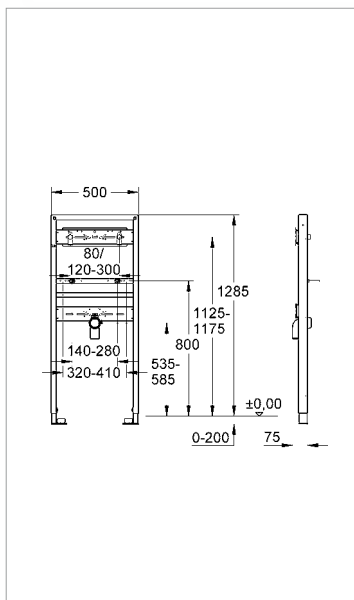
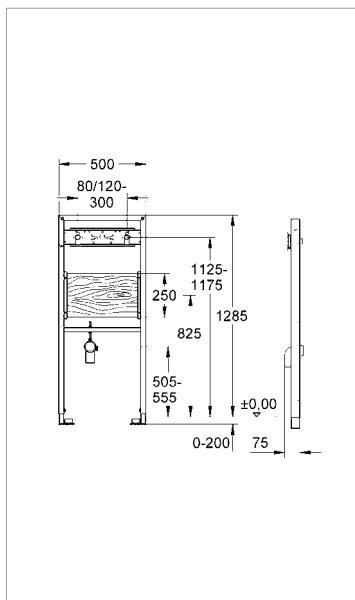
with flushing cistern 6 l, corner mounting, dual flush/start & stop/single flush, connection from left/right or rear, 1.00 m installation height, actuation from front

38 558 00M Rapid SL wall brackets

for wall installation, 2 pieces

All Rapid SL elements can be universally used for on-the-wall installation in front of solid walls as well as in lightweight studded wall partitions.

GROHE RAPID SL FOR WASH BASIN AND SINK



38 544 000

Rapid SL for sink

for wall mounted fittings, 1.30 m installation height

38 546 000

Rapid SL for wash basin

for wall mounted fittings, 1.30 m installation height

38 748 001

Rapid SL for wash basin

with roughing-in set for infra-red electronics Allure E, Essence E and Europlus E, for installation with pre-mixed or cold water, 1.13 m installation height

38 625 001

Rapid SL for wash basin

for single hole installation or wall mounted fittings, with concealed trap, adjustable outlet bend, chrome plated, 1.13 m installation height



GROHE Whisper®

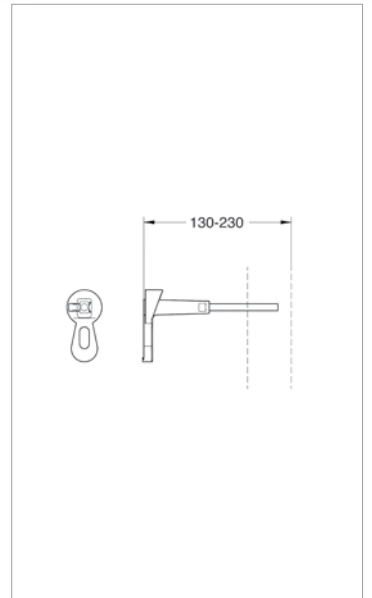
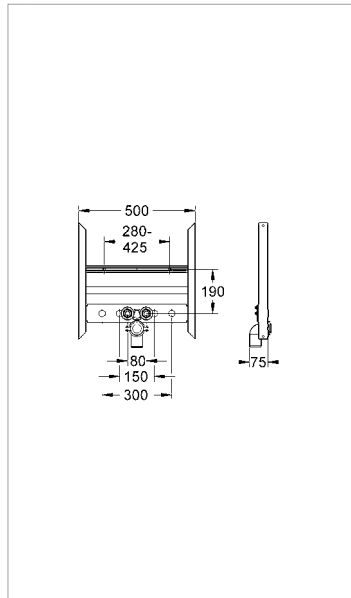
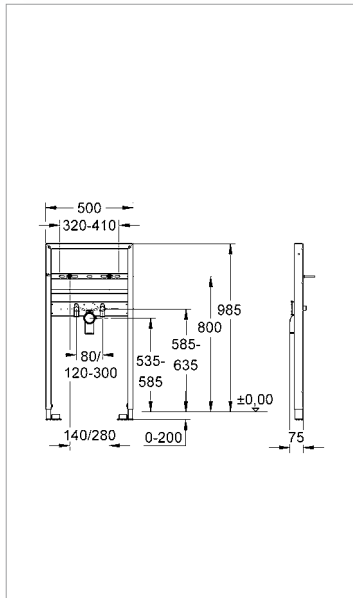
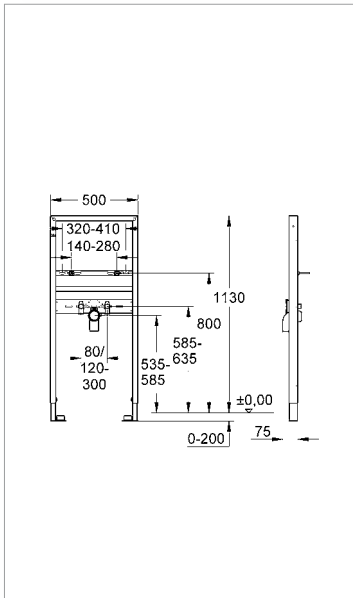


GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush



38 554 001
Rapid SL for wash basin
 for single hole installation, 1.13 m
 installation height

38 557 001
Rapid SL for wash basin
 ditto 38 554 001, but without fitting
 connections

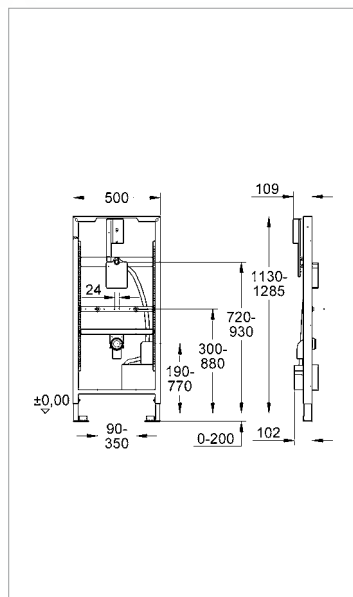
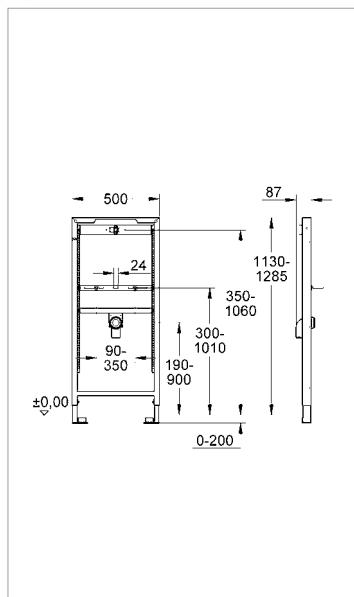
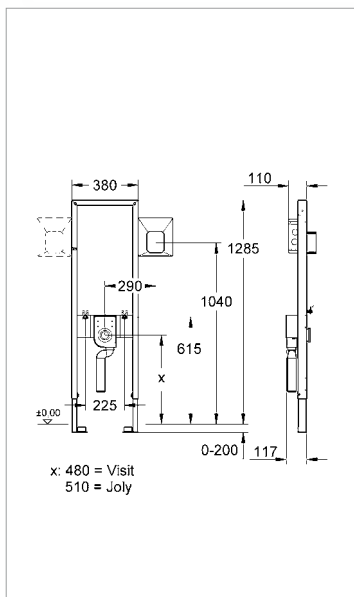
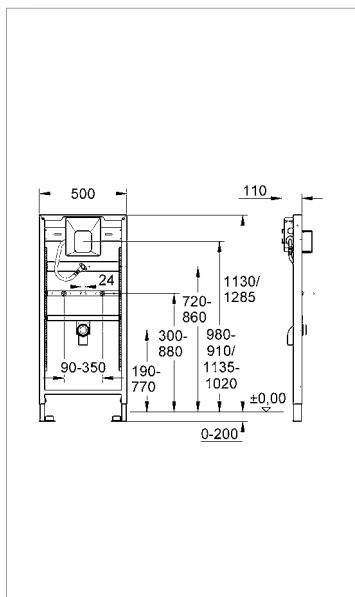
38 541 000
Rapid SL for wash basin
 for single hole installation, 1.00 m
 installation height

38 628 000
Rapid SL for wash basin
 for single hole installation, support
 with variable connections for
 objects/fitings (for studded walls)

38 558 00M
Rapid SL wall brackets
 for wall installation, 2 pieces

All Rapid SL elements can be universally used for on-the-wall installation in front of solid walls as well as in lightweight studded wall partitions.

GROHE RAPID SL FOR URINAL



38 786 001

Rapid SL for urinal

with GROHE Rapido U, for manual actuation or infra-red electronic 6 V oder 230 V, 1.13 m and 1.30 m installation height

38 802 001

Rapid SL for urinal Joly and Visit

with GROHE Rapido UMB, for manual actuation or infra-red electronic 6 V, 1.30 m installation height

38 517 001

Rapid SL for urinal

without fitting, 1.13 m and 1.30 m installation height

38 511 001

Rapid SL for urinal

with roughing-in set for radar electronic, 1.13 m and 1.30 m installation height



GROHE Whisper®



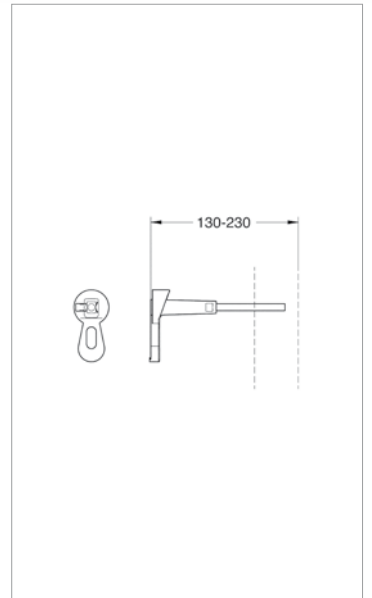
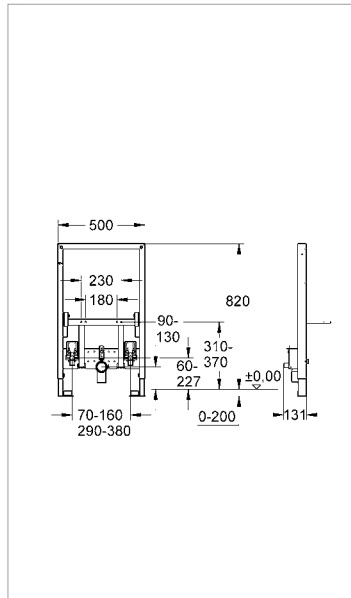
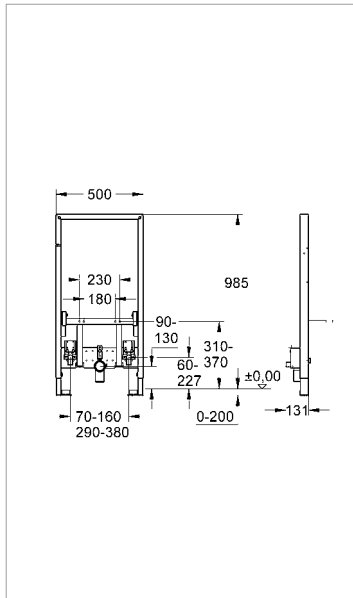
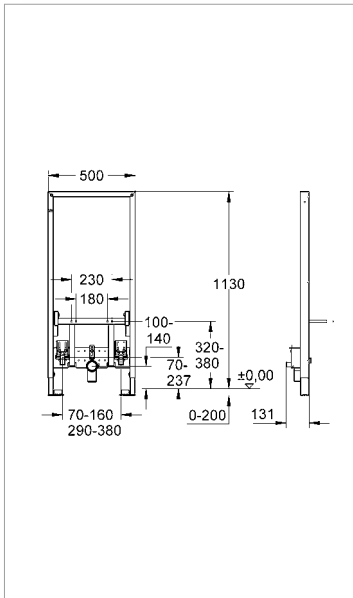
GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush

GROHE RAPID SL FOR BIDET



38 553 001
Rapid SL for bidet
1.13 m installation height

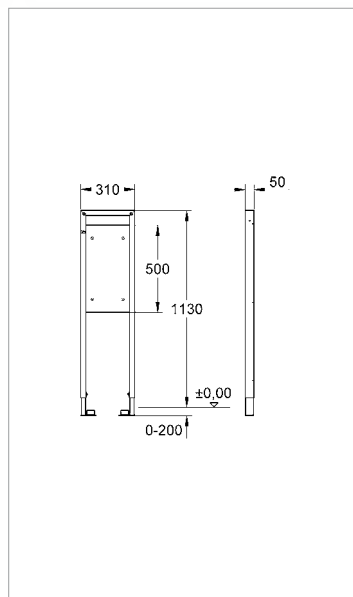
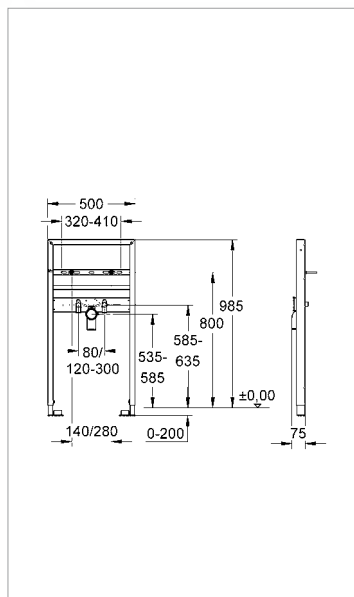
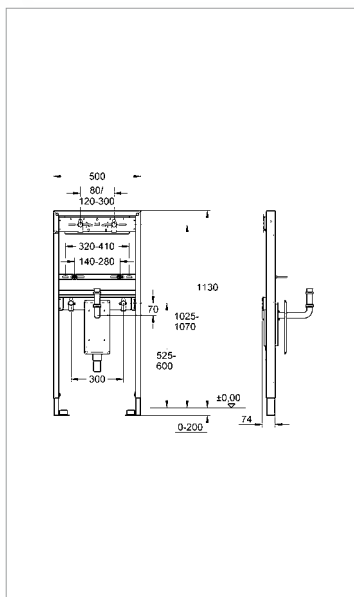
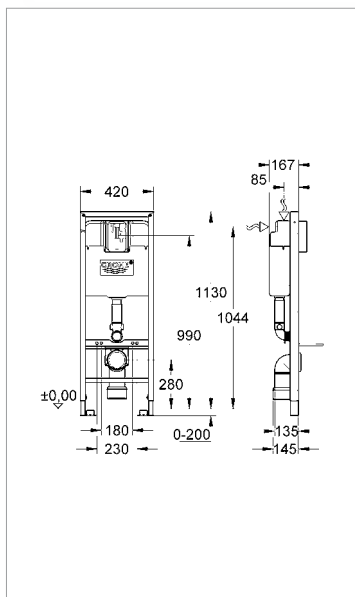
38 545 000
Rapid SL for bidet
1.00 m installation height

38 543 000
Rapid SL for bidet
0.82 m installation height

38 558 00M
Rapid SL wall brackets
for wall installation, 2 pieces

All Rapid SL elements can be universally used for on-the-wall installation in front of solid walls as well as in lightweight studded wall partitions.

GROHE RAPID SL HANDICAP FOR WC, WASH BASIN – FOR THE DISABLED



38 675 001

Rapid SL for WC

with flushing cistern 6 l, dual flush/
start & stop/single flush, connection
from the rear, 1.13 m installation
height, width 0.42 m, for WC bowls
70 cm projection, for the disabled

38 625 001

Rapid SL for wash basin

for single hole installation or wall
mounted fittings, with concealed
trap, adjustable brass outlet bend,
chrome plated, 1.13 m installation
height

38 541 000

Rapid SL for wash basin

for single hole installation, 1.00 m
installation height, fixing for
concealed drain trap

38 559 001

Rapid SL fixing element

to fix support for the disabled in
lightweight studded wall partitions
or on-the-wall installations



GROHE Whisper®



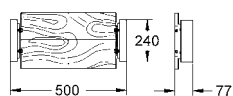
GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush

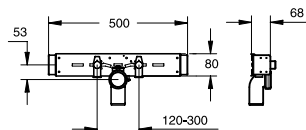
GROHE RAPID SL FOR BATH, SHOWER



38 652 000

Rapid SL fitting support

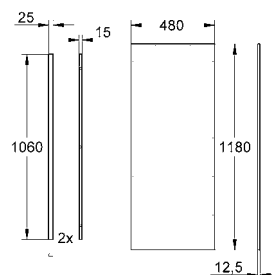
for concealed fittings and room ventilator, for lightweight studded wall partitions and empty elements, for GROHE Rapido



38 441 000

Rapid SL fitting support

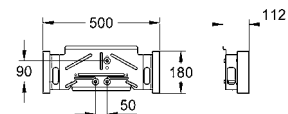
for washing machine, for lightweight studded wall partitions and empty elements



38 630 001

Rapid SL cladding

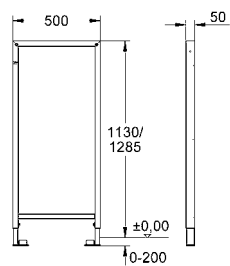
for bidet, urinal and spaces between elements, 1.13 m installation height, without cut-outs



38 650 000

Rapid SL fitting support

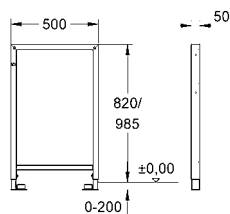
for GROHE concealed fittings, for lightweight studded wall partitions and empty elements



38 548 001

Rapid SL empty element

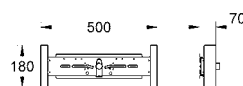
1.13 m installation height, for the installation of fitting supports



38 551 000

Rapid SL empty element

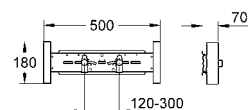
ditto 38 548 001, but 1.00/0.82 m installation height



37 999 000

Rapid SL fitting support

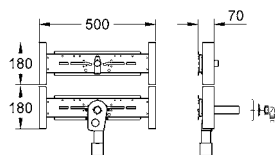
for exposed fittings, for lightweight studded wall partitions and empty elements



37 998 000

Rapid SL fitting support

for exposed fittings, for lightweight studded wall partitions and empty elements



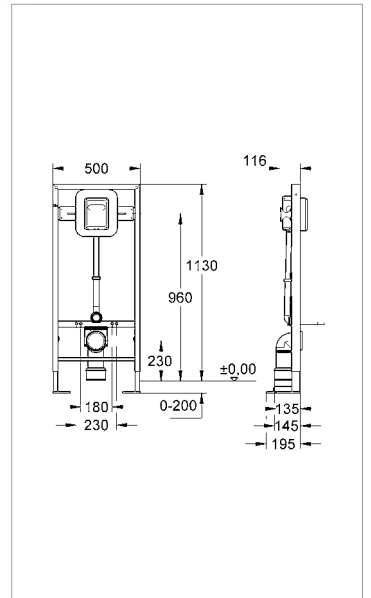
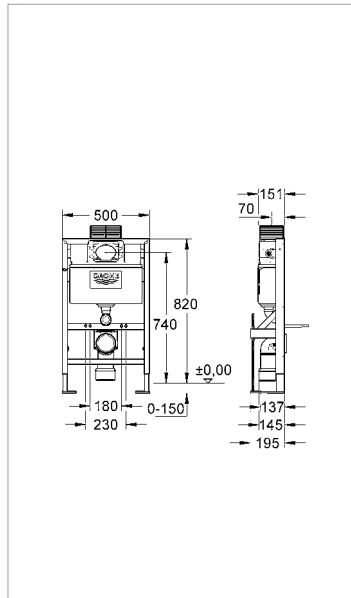
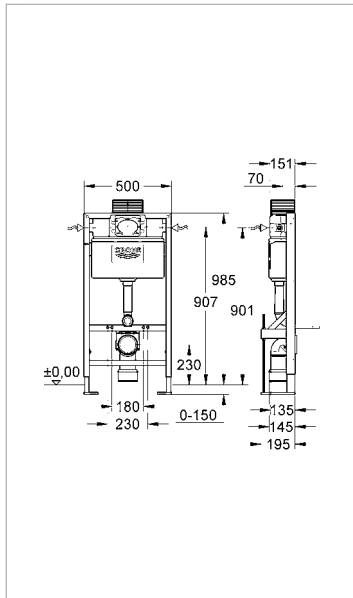
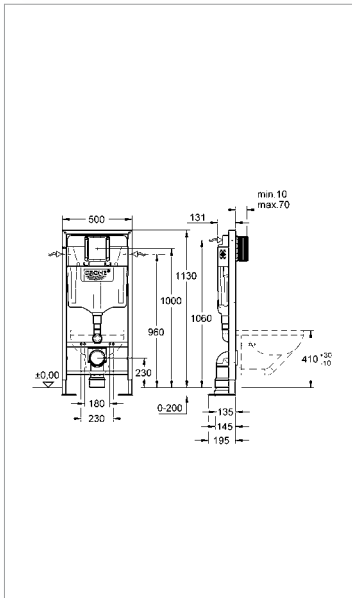
38 441 000

Rapid SL fitting support

for washing machine, for lightweight studded wall partitions and empty elements

All Rapid SL elements can be universally used for wall installation in front of solid walls as well as in lightweight studded wall partitions.

GROHE RAPID SL FREE-STANDING INSTALLATION FOR WC AND BIDET



38 584 001

Rapid SL for WC

with flushing cistern 6 – 9 l, dual flush/start & stop/single flush, connection from left/right or rear, 1.13 m installation height

38 586 001

Rapid SL for WC

with flushing cistern 6 – 9 l, for studed wall partition or free-standing installation, 1.00 m installation height, actuation from front/above

38 587 000

Rapid SL for WC

with flushing cistern 6 – 9 l, for studed wall partition or free-standing installation, 0.82 m installation height, actuation from front/above

38 585 001

Rapid SL for WC

with flush valve 6 – 9 l, for manual/electronical actuation, 1.13 m installation height



GROHE Whisper®

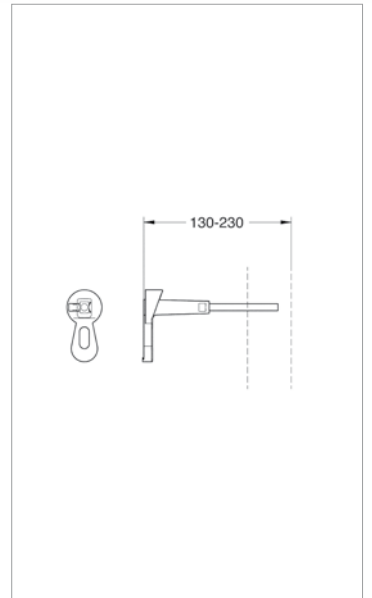
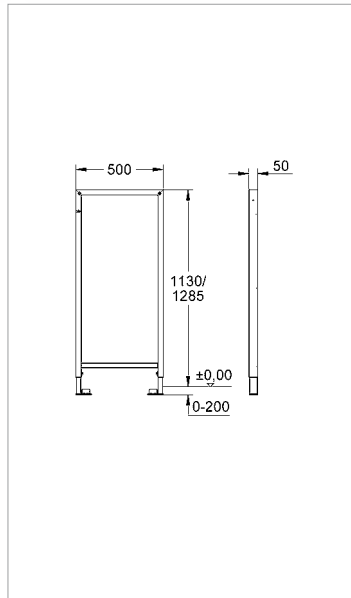
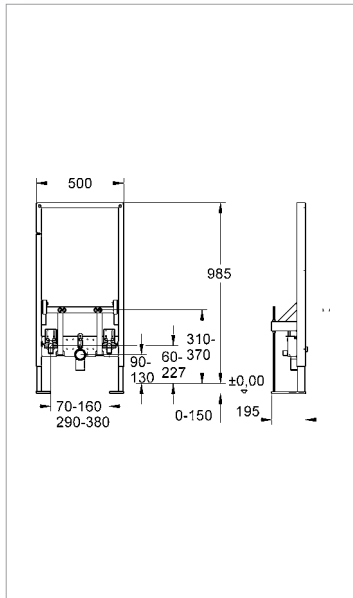
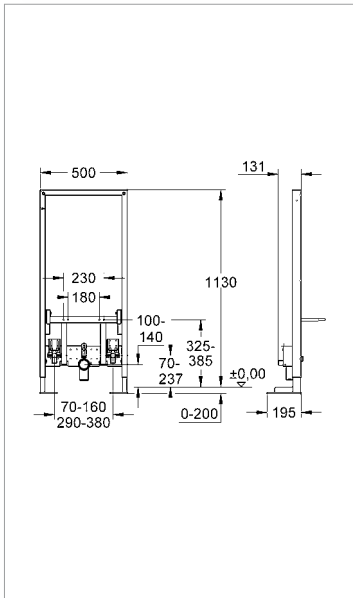


GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush



38 581 001

Rapid SL for bidet

for studed wall partition or free-standing installation, 1.13 m installation height

38 582 000

Rapid SL for bidet

for studed wall partition or free-standing installation, 1.00 m installation height

38 583 000

Rapid SL for bidet

ditto 38 582 000, but 0.82 m installation height

38 548 001

Rapid SL empty element

1.13 m installation height, for installation back to back with free-standing elements

38 551 000

Rapid SL empty element

ditto 38 548 001, but 1.00/0.82 m installation height

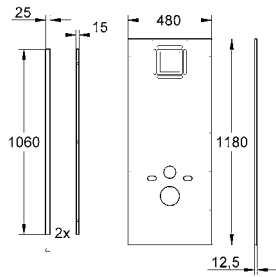
38 558 00M

Rapid SL wall brackets

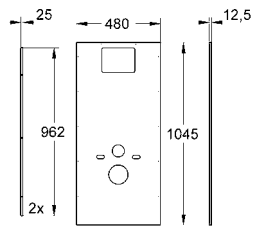
for wall installation, 2 pieces

For free-standing installation/for installation in front of weak walls.

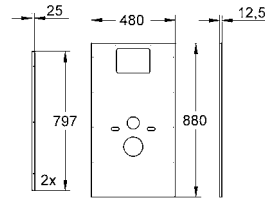
GROHE RAPID SL ACCESSORIES



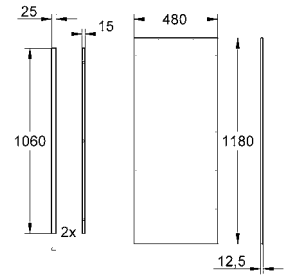
38 636 001
Rapid SL cladding
for WC, 1.13 m installation height



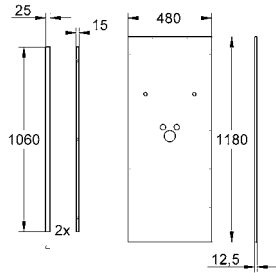
38 637 001
Rapid SL cladding
1.00 m installation height



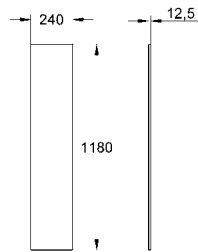
38 638 000
Rapid SL cladding
0.82 m installation height



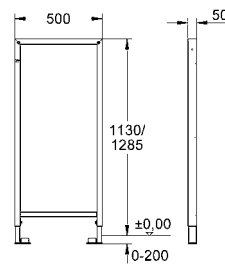
38 630 001
Rapid SL cladding
for bidet, urinal and spaces
between elements, 1.13 m
installation height, without cut-outs



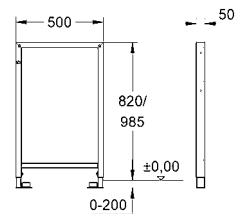
38 631 001
Rapid SL cladding
for wash basin, 1.13 m installation
height, with cut-outs



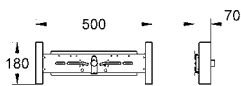
38 633 001
**Rapid SL sides/shelf
cladding**
für installation heights 1.13 m,
1.00 m and 0.82 m



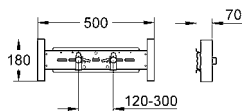
38 548 001
Rapid SL empty element
1.13 m installation height, for the
installation of fitting supports



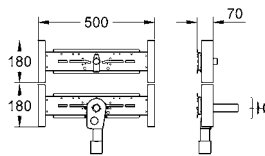
38 551 000
Rapid SL empty element
ditto 38 548 001, but 1.00/
0.82 m installation height



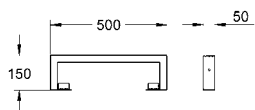
37 999 000
Rapid SL fitting support
for exposed fittings, for lightweight
studded wall partitions and empty
elements



37 998 000
Rapid SL fitting support
for exposed fittings, for lightweight
studded wall partitions and empty
elements



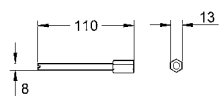
38 441 000
Rapid SL fitting support
for washing machine, for
lightweight studded wall partitions
and empty elements



38 629 000

Rapid SL extension

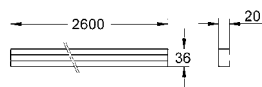
for floor constructions up to 350 mm, fixing material



38 563 000

Extension set

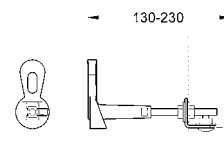
for Rapid SL for WC, bidet, wash basin, urinal, for max. distance to the wall 330 mm



37 310 000

Installation rail

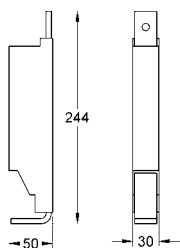
for row installation, with fixing material, 2600 x 36 x 20 mm



38 733 000

Rapid SL mounting angle

for additional fixation of WC elements or installation without floor fixing



38 779 000

Rapid SL accessory

for WC bowls with a bearing area of less than 20 cm



GROHE UNISET

Uniset is an on-the-wall installation system for walling-in which is characterised by an enclosed housing. As a result, Uniset elements can be cleanly and rapidly walled-in - and difficult lining with masonry can be avoided. Naturally you can plan and implement interesting floor plan solutions with Uniset involving optimum space distribution.

WC, urinal, wash basin and a large shower on a pedestal construction are all included in a narrow space. The bright, friendly space radiates a sense of well-being as well as cleanliness and hygiene.

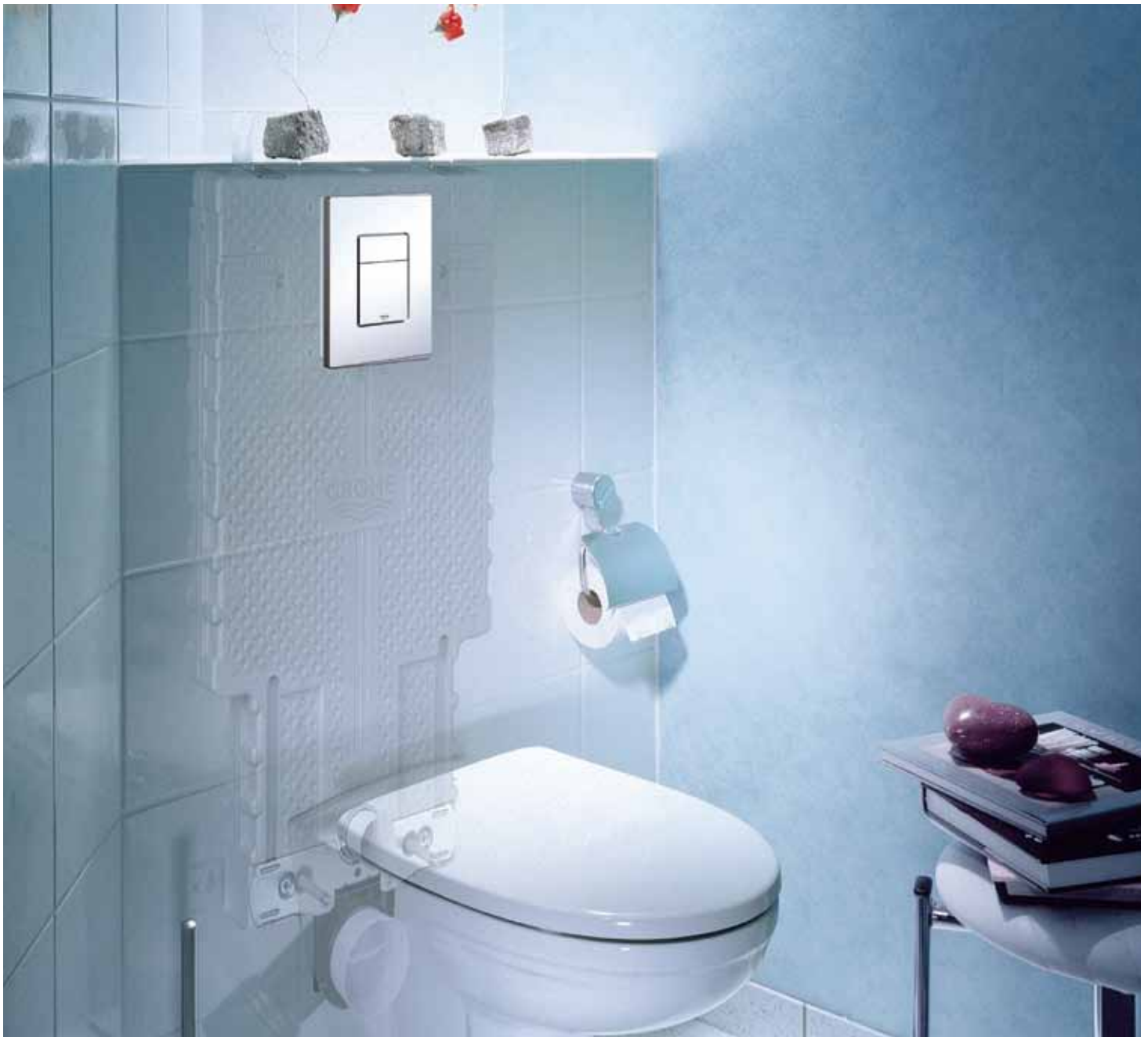


GROHE UNISET PERFECT FOR FLEXIBLE ROOM DESIGN, IDEAL FOR RAPID AND SIMPLE INSTALLATION

Numerous user-friendly details simplify the Uniset installation in the most varied situations. Uniset's special features include **GROHE Whisper®** for excellent noise control and maximum comfort.

Universal installation.

- For all sanitary objects
- Free-standing installation
- One discharge valve for all flushing functions such as dual flush, start & stop and single flush





GROHE Whisper®

means optimum noise protection for adjacent rooms. Thanks to low-noise fittings and decoupled pipe mountings, no noise is transmitted to the solid walls of the building.



Safety

provides for perfect safety. The high load-carrying ability and stability of the elements of more than 400 kg has been confirmed by the German TÜV.



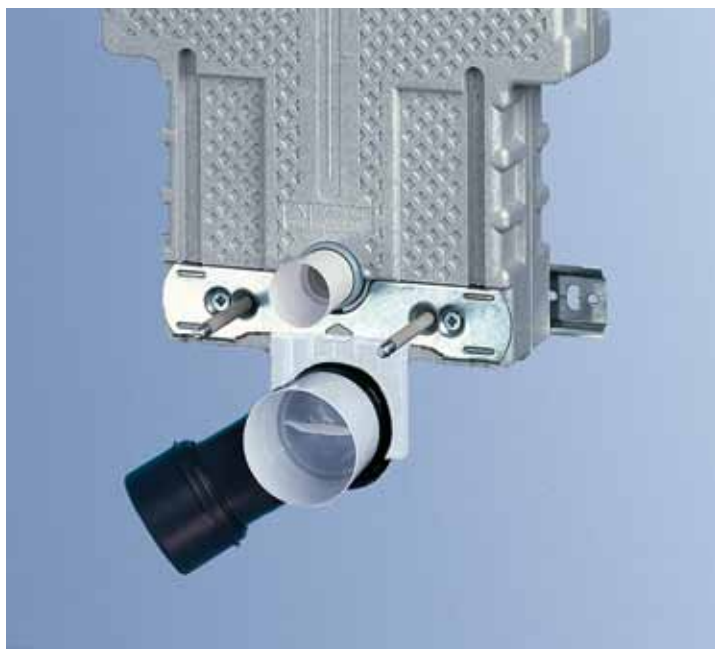
GROHE QuickFix™

ensures flexible installation, shorter installation times and a straightforward realisation of highly varied sanitary floorplans.



SpareFlush

resolves flushing problems occurring with older waste water lines or while rinsing WCs. In addition to a flushing quantity of 6 litres, there is always a 3 litre safety flushing quantity available.

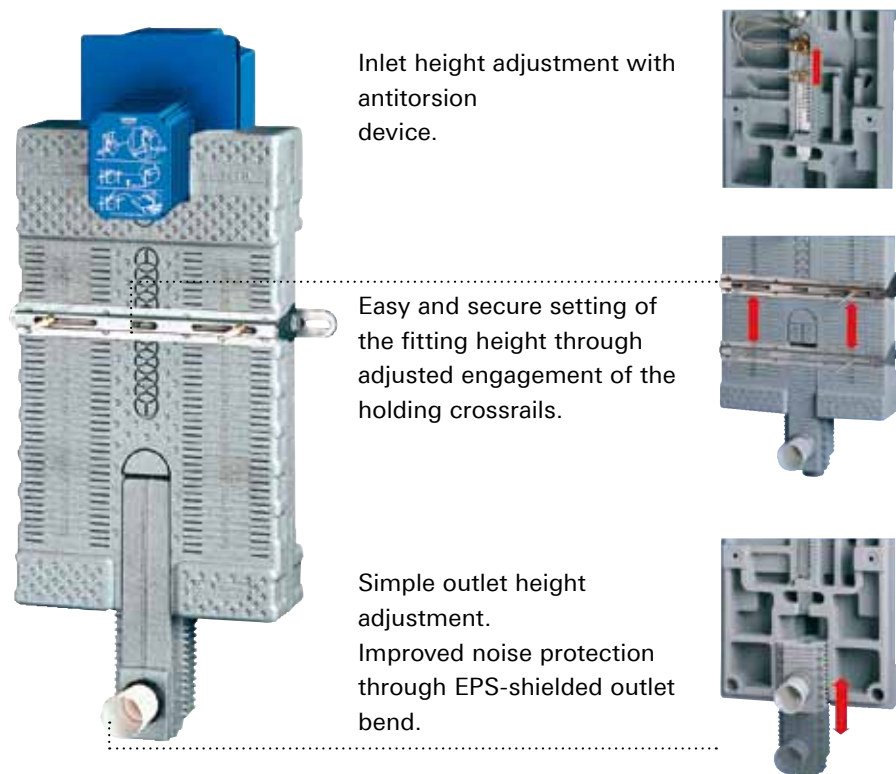


GROHE UNISET

CLEAR ADVANTAGES FOR NOTABLE PROFIT

Uniset is a modern modular system which you can recognise everywhere by its knobbly grey EPS housing. At the same time, it has many practical functions: it is a rendering base, improves noise protection and naturally also protects the fitting inside. With Uniset, walling in has taken the place of the difficult lining with masonry which used to be the norm.

Additional advantages for urinal and wash basin elements



Inlet height adjustment with antitorion device.

Easy and secure setting of the fitting height through adjusted engagement of the holding crossrails.

Simple outlet height adjustment.
Improved noise protection through EPS-shielded outlet bend.

Element

Closed housing made of robust EPS material, which means there is no need for interior masonry lining.

Low weight, housing made of EPS, without sharp sheet metal edges, prevents injuries.

400 kg load capacity for the WC.

Noise protection in accordance with DIN 4109, use in areas with highest noise protection requirements.
Comfort noise protection 24 dB(A), GROHE 16 dB(A).

Outlet bend DN 80 and reducer DN 80/100.

Additional advantages for wash basin elements

Easy adjustability of the inlet and outlet heights through simple adjustment of the crossrails.



Flushing cistern

Shaft for installation of pipes at the back and water inlet from the left/right or rear.

1/2" water inlet can be installed without tools with angle stop valve, replaceable spindle.

Tool-free latching of inspection shaft, frame for actuation plate is mounted with two screws only, for vertical or horizontal use.

Pneumatic discharge valve with only one hose connection offering 3 modes of operation:

- Dual flush
- Start & stop
- Single flush

From the packaging directly to the wall. For even faster installation, the wall rail is now assembled ex factory.

GROHE UNISET INDIVIDUAL INSTALLATION: SIMPLY INDIVIDUAL

Individual installation can always be carried out, whether it be in a private bathroom or in public/commercial sanitary modules. The mounting sequence makes it clear how simple installation is, all the way to walling in and tiling.

1. Roughing-in installation

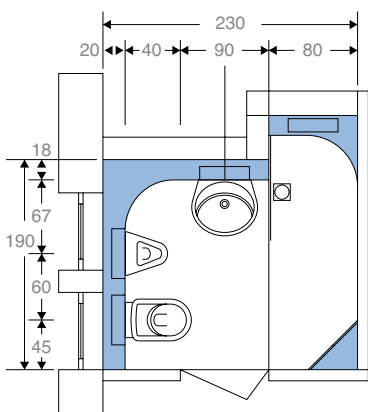
- WC elements with flushing cistern GD 2, 6 - 9 ltr., 38 643 001
- urinal element with roughing-in set for urinal GROHE Rapido U 38 785 000
- wash basin element (for wash basin-mounted mixer) 37 576 000

2. Walling in, plastering, tiling

3. Finished installation

Installation of the cover plates

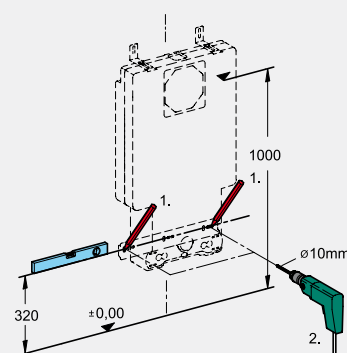
- for WC: wall plate Skate Cosmopolitan, vertical installation, chrome, 38 732 000
- for urinal: wall plate Skate Cosmopolitan, vertical installation, chrome, 38 784 000 and fittings for wash basins, in addition to accessories.



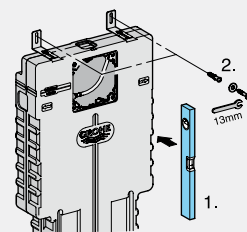
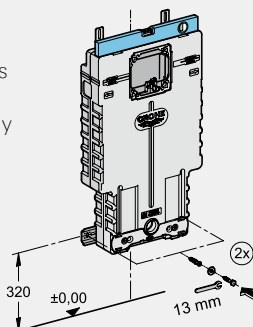
Roughing-in installation



- Mount upper wall fixing on Uniset.
- Place module on mounting position.
- Mark 4 fixing points.



- Fix wall brackets
- Align vertically



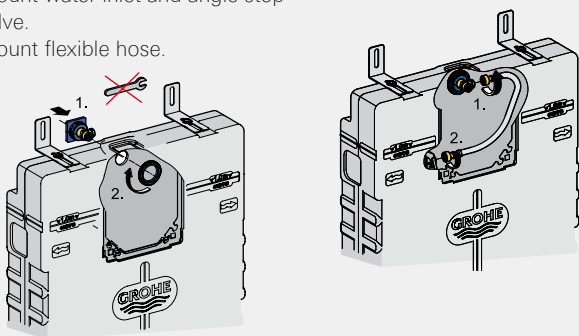
Walling in, plastering, tiling



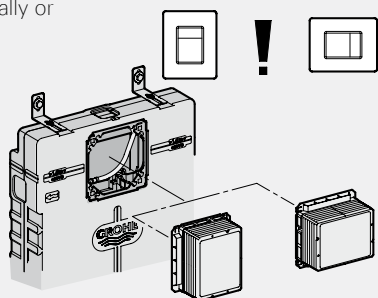
Finished installation



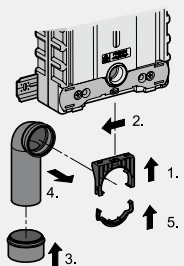
- Mount water inlet and angle stop valve.
- Mount flexible hose.



- Fit inspection shaft vertically or horizontally.
- Cut off corner if installed horizontally.

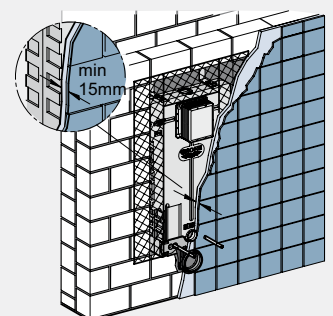


- Mount outlet clip and outlet bend.



- Mount WC fixing bolts.
- Wall in the element and cover transitions into the masonry with armouring.

Minimum plaster build-up, including tiles: 15 mm.



GROHE UNISET

FREE-STANDING INSTALLATION: SECURE AND STABLE

Free-standing walls are a design element which is particularly suitable for separating different functional areas in bathrooms from one another. Stand brackets which are fixed to the rough floor are required as accessories for free-standing installation. The mounted elements are accessible from both sides and can be aligned perfectly.

1. Roughing-in installation

- WC element with flushing cistern GD 2, 6 - 9 ltr, 38 643 000
- Bidet element 37 578 000
- Stand brackets (for WC and bidet) 37 573 000

2. Walling in, plastering, tiling

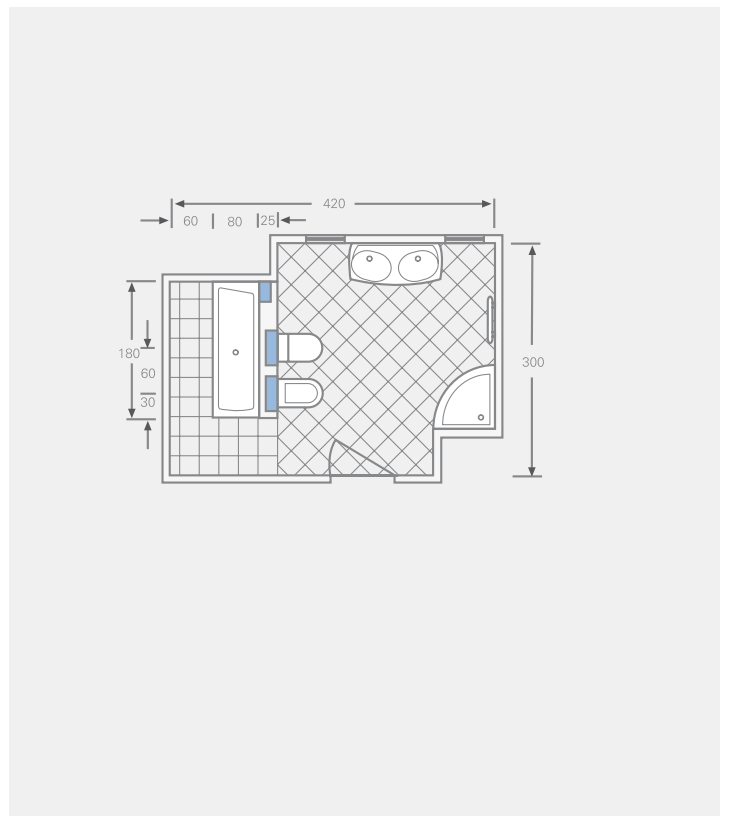
3. Finished installation

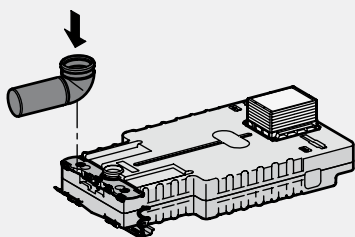
Mounting of the cover plates

- for WC: cover plate Nova Cosmopolitan, chrome and fittings for bidet, wash basin, shower, bath tub as well as accessories.

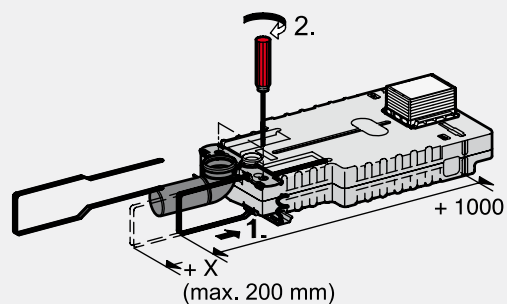
A positive, generous feeling of space is achieved through the low, free-standing wall.

Roughing-in installation until finished installation

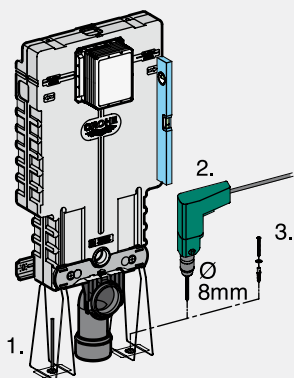




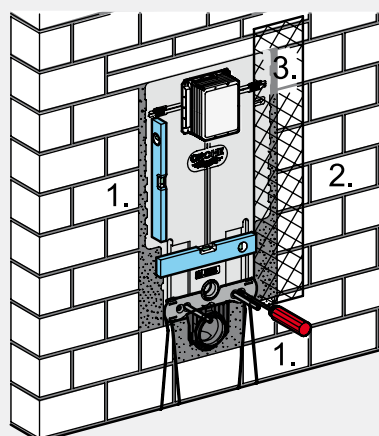
- Fix wall anchor to the rail.



- Mount support feet, set approximate mounting height.



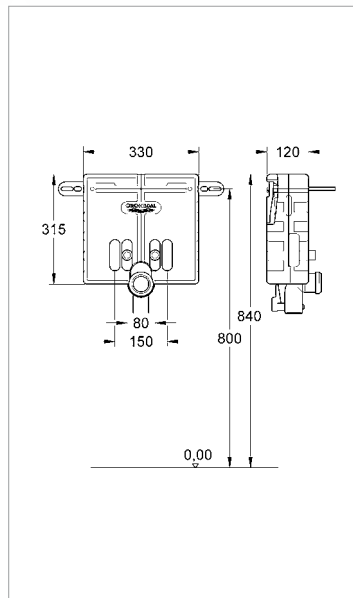
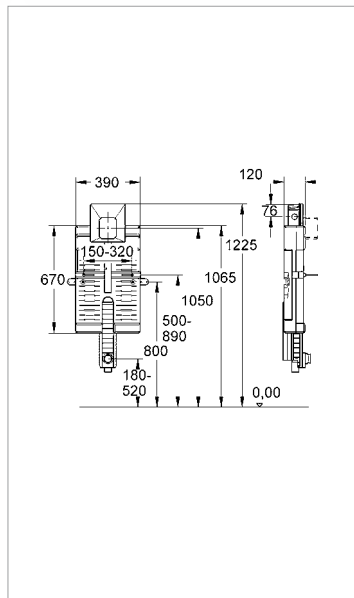
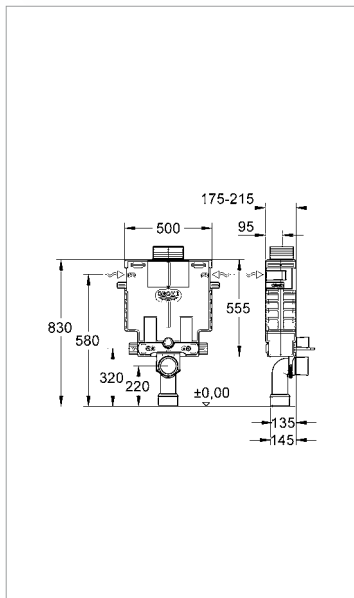
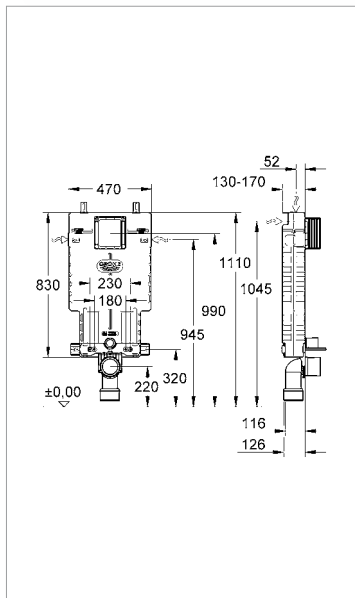
- Fix to the floor.
- Mount upper fixing brackets if needed.



- Align and screw fixing set tight.
- Wall in and cover transitions into the masonry with armouing.

Minimum plaster build-up, including tiles: 15 mm.

GROHE UNISET FOR WC, URINAL, WASH BASIN, BIDET, ACCESSORIES



38 643 001 Uniset for WC

with flushing cistern 6 - 9 ltr., dual flush/start & stop/single flush, water supply from the left, right, rear or top, for walling in

38 415 001 Uniset for WC

with flushing cistern 6 – 9 ltr., 0.82 m installation height, dual flush/start & stop/single flush, water supply from left, right or top, front or top actuation

38 785 000 Uniset for urinal

with GROHE Rapido U, for manual actuation or infra-red electronic 6 V or 230 V

37 576 000 Uniset for wash basin

for single hole installation



GROHE Whisper®

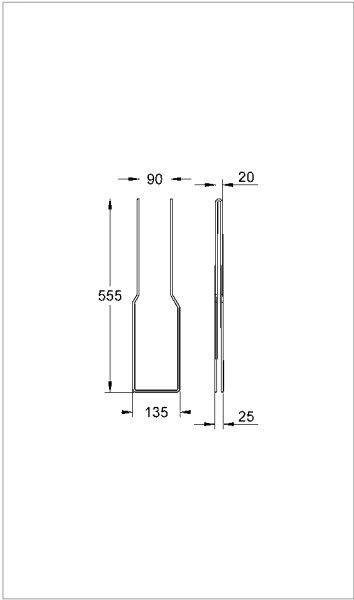
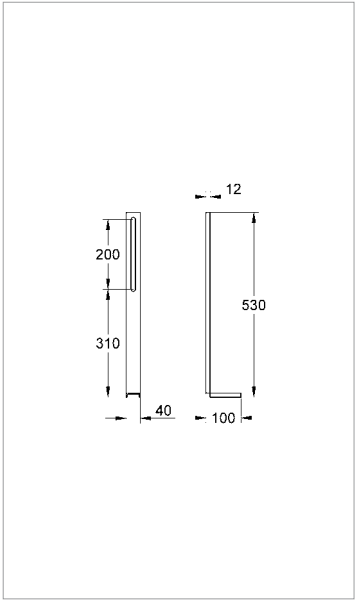
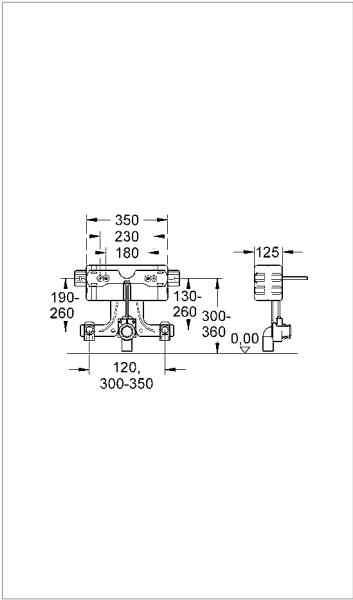
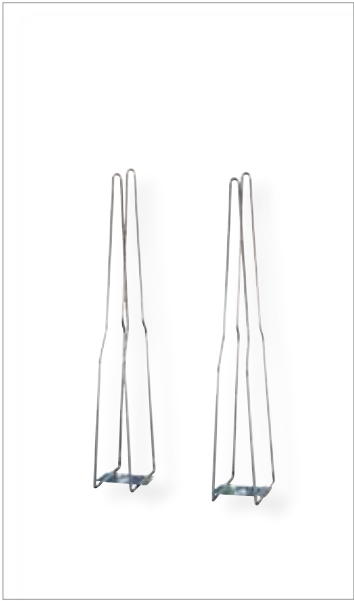


GROHE EcoJoy™



GROHE QuickFix™

GROHE features:
VarioPort
ToolFree
Safety
SpareFlush



37 578 001
Uniset for bidet

37 304 000
Uniset support feet
for WC and bidet, for on-the-wall
installations

37 573 000
Uniset support feet
for WC and bidet, for free-standing
installations
(not suitable for installation height
0.82 m)



GROHE FLUSHING SYSTEMS

GROHE allows you to plan for perfect sanitary room hygiene and install future-oriented sanitary technology.

Ecologically sensible: GROHE fittings use water very sparingly.

Economically convincing: a low water consumption means high efficiency. To give the room an integrated look, be sure to specify a completely coordinated range of equipment. This makes it easier to create a friendly and hygienic atmosphere. Water-saving, functional fittings from Grohe are an ideal choice to round off your room design.

GROHE helps you impress your customers. In addition to our range of flushing valves and flushing cisterns for on-the-wall and wall mounting, a variety of electronic solutions is available for WCs and urinals.





GROHE WC INSTALLATIONS

Flush valves and flushing cisterns.

It is not only WC flush valves which can be said to have a long tradition and a high brand name value at GROHE, but also flushing cisterns, which have had the same for over 30 years. Innovation was always an important impetus for this development, as shown in exemplary fashion with such achievements as Fitting Group I in the case of flush valves, the short-stroke filling valve for cisterns or the first discharge valve with push button control for ceramic fixtures. Competency for both flush systems works to the advantage of sanitation professionals because of high technical standards and benefits in practical applications.



GROHE WC INSTALLATIONS

SAVING WATER PAYS OFF

Water consumption for WCs in private households is tremendously high at 27%. That is the reason that saving water is so important: water is not an inexhaustible resource, and its processing is becoming ever more expensive. Inform your customers that saving water pays off. The GROHE start/stop systems and the dual flush offer the opportunity of selecting one's preferred economical flush.

Here's something you should know.

The WC bowl determines how much water the flush valve or the flushing cistern is to release. Older WC bowls require 9 ltr flushing volume - older flushing cisterns/flush valves release 9 ltr.

Present-day WC bowls require 6 ltr, some even 4.5 ltr flushing volume. Present-day flushing systems can be set between 4.5 - 9 ltr and can also release smaller amounts (start/stop, dual flush). These are the only technical possibilities permitted according to DIN.





GROHE StarLight®

Radiant chrome finish resistant to soil and tarnishing - stays like new for years.



GROHE EcoJoy™

Integrated water-saving technology reduces water and energy consumption without compromising on design and performance.



EcoCare

Reduces water consumption by more than 50 %. Activation of the GROHE EcoButton releases a smaller water quantity of 3 l.



SpareFlush

resolves flushing problems occurring with older waste water lines or while rinsing WCs. In addition to a flushing quantity of 6 litres, there is always a 3 litre safety flushing quantity available.



GROHE WC INSTALLATIONS

WALL PLATES WITH 3 MODES OF FUNCTION



1. Press only the large button = you flush the entire water volume

That is what you save.

The numbers speak for themselves. It is not uncommon for the water/waste water price to be considerably more than this figure. This means that a modernised WC installation can easily save around 250.00 EUR per year.

Water consumption toilet flushing per year

Basis:

- 4-person household
- Price of water incl. Waste water: 5.00 Euro/m³
- WC use per person and day:
6 x (2 x full flush, 4 x short flush)



2. Press only the small button = you flush the reduced water volume



3. Press the small button after pressing the large button = you interrupt the flushing procedure retroactively

Consumption/Savings	Conventional WC fitting 9 ltr., without short flush	WC fitting 9 ltr., with short flush 4.5 ltr.	WC fitting 6 ltr., with short flush 3 ltr.
Consumption/Day	216 l	144 l	96 l
Consumption/Year	78 800 l	52 500 l	35 000 l
Savings over conventional installation per year		26 300 l = 131,50 €	43 800 l = 219,00 €

GROHE WC INSTALLATIONS CONCEALED INSTALLATION

Concealed flushing cistern and flush valve. Concealed installation: always an elegant solution. The technology disappears behind the wall, while there on the smooth, low-maintenance tile surface, the elegant form of the actuation plate harmonises with overall bathroom decor. The attractive visuals and easy cleaning of the wall and the floor under the wall-hung WC are compelling arguments for the concealed installation solution.



Only the actuation remains visible with concealed installation. This option is directed at the widest variety of utilisation purposes and extends from conventional manual actuation by panel or push button all the way to electronic actuations, e.g. as a solution for the disabled.

Surf and Skate

These cover plates with their elegant shapes are mounted primarily for pressure actuation. The Skate plate in the stainless steel model recommends itself particularly for the public sector.

A small example illustrates the wide variety of actuations: An infra-red electronic actuator can for example be set up in hygienic areas or to serve the disabled. Radio electronics would however be even more ideal for the disabled. A push button actuator could also be mounted as an alternative.



EXPOSED INSTALLATION

No question about it: exposed installation solutions can also have an attractive appearance. The WC flush valve is a small, compact fitting which - as is the case with the Rondo A.S. - can certainly have an attractive appearance. The flushing cistern - placed directly above the stand WC - forms practically a unit with the bowl. It is particularly the case with modernisations that the only option is to replace old exposed installation fixtures with new solutions for exposed installation.



Exposed flushing cistern with start/stop button.

With this cistern, you first use the actuation to call up the full flushing volume. But then you can interrupt the flushing procedure before it is finished with a second actuation. The flushing cistern exists even for behind-the-wall installation with pneumatic remote control.

Both flushing cisterns are equipped with a filling valve which fills quickly (6 ltr/27 sec., 9 ltr/40 sec.) and quietly (Fitting Group I) and which is adjustable to all flushing cisterns.



At all times ready to flush, with a very forceful flushing action. Exposed flush valves.

WC flush valve Rondo A.S.

Flush valves have many strong points: they are small, compact and robust; they are always ready to flush and are thrifty in their operation. Above all, they work with a very forceful flushing action - with prime values for the flushing itself, for reaching the edges and cleaning the WC bowl as they flush and for keeping the outlet pipe clean. And top models such as the Rondo A.S. operate quietly (best Fitting Group I). The lean, formally elegant Rondo A.S. can also be obtained with the advantageous integrated preliminary block.

GROHE WC INSTALLATIONS

CONCEALED FLUSHING CISTERN FOR RAPID SL AND UNISET

Quick connection, small actuation plates

Rapid installation and universal connections are characteristic of this concealed flushing cistern. The recess at the back of the cover for connection from the rear, as well as the other three possible connections from the top, left or right, and the water connection which can be installed most conveniently without requiring tools - this cistern leaves absolutely nothing to be desired by the plumber. Add to this the more attractive small cover plate, the security of a flushing cistern with a capacity of 6 - 9 litres and the optimum pneumatic actuation with its easy installation. All in all: considerable added value for both the plumber and the user.

The actuation plates: for time-saving installation.

The small actuation plates measuring just 156 x 197 mm are available for vertical or horizontal installation. State-of-the-art pneumatic discharge valve technology makes them real all-rounders:

Press large button = full water flow, can be interrupted by pressing the small button.

Press small button = economy flush - what better way to save water!





The small GROHE cover plates for

- dual flush technology and start & stop flush on one plate (upright or crosswise)
- single flush for more security in commercial/public areas, as the full water flow helps to prevent clogged pipes.

1. Skate Cosmopolitan with 3 functions:

- Large button only: full flush.
- Small button only: economy flush.
- Small button after large button: stop flushing.

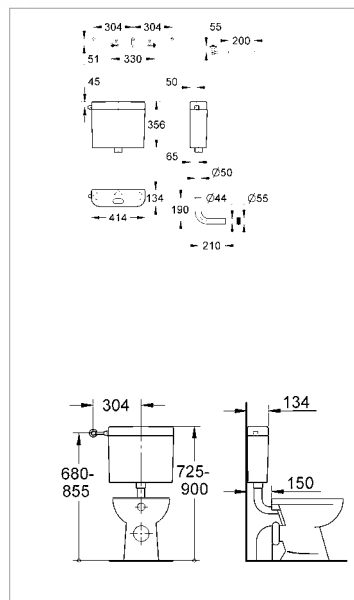
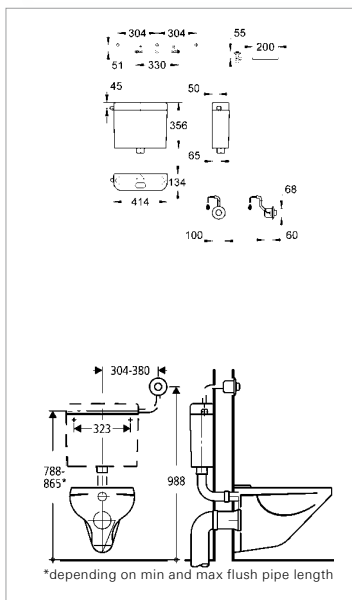
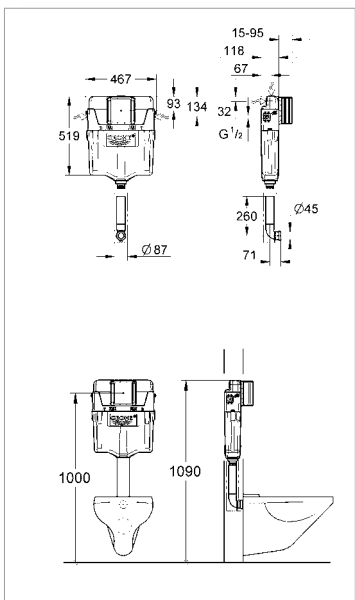
Skate Cosmopolitan in 2 versions:
vertical or horizontal installation

2. Skate Air with single flush technology and additional start/stop feature.

To install the cover plate, insert the inspection shaft in a vertical or horizontal position. It simultaneously affords protection during the construction work and is simply cut off flush with the tiles using a knife during the final installation phase.

GROHE WC INSTALLATIONS

CONCEALED/EXPOSED WC FLUSHING CISTERNS



38 661 000
Concealed flushing
cistern GD2

6 - 9 ltr., dual flush or start/stop or single flush, water supply from left/right/back or top, fitting group I, without actuation

Flushing cistern
38 661 000 in elements
Rapid SL and Uniset, see
chapters installation
systems

**For installation behind the wall:
37 072 SH0**

Flushing cistern for WC with pneumatic remote actuation

37 355 SH0
Flushing cistern for WC

flushing cistern for exposed
installation, 6 - 9 ltr., fitting group I,
white



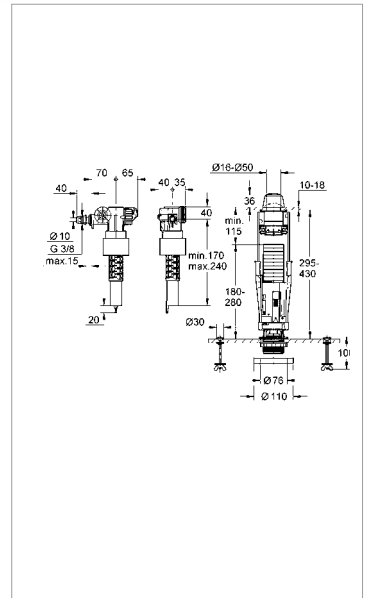
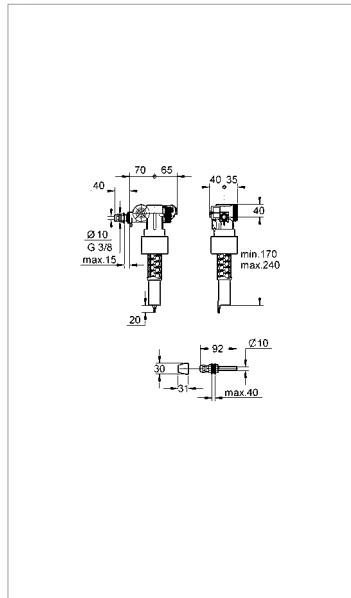
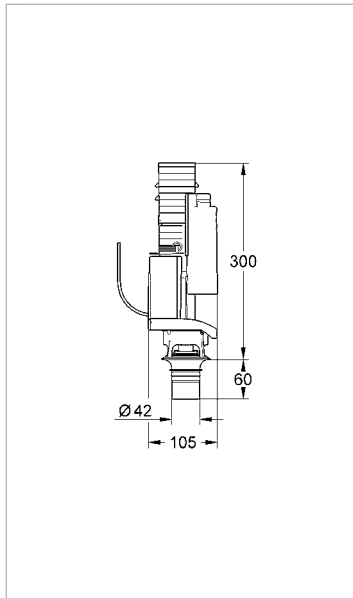
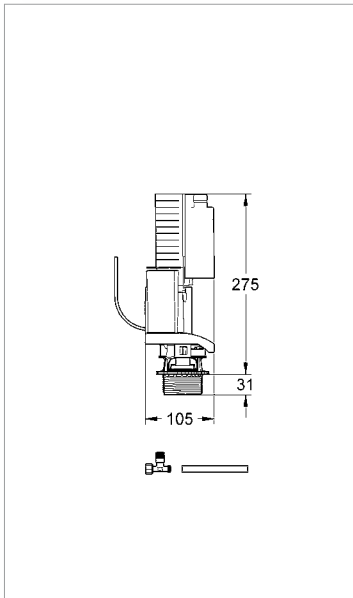
GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoCare
VarioPort
ToolFree
SpareFlush

WC FLUSHING CISTERN FITTINGS



38 735 000 Retro-fit set

for flushing cistern 6 l, concealed installation, dual flush discharge valve AV1, with valve seat, without wall plate

38 736 000 Dual Flush retro-fit set

for flushing cistern GD 2, 6 - 9 ltr. adjustable, dual flush discharge valve AV1, with valve seat, without wall plate

37 092 000 Filling valve

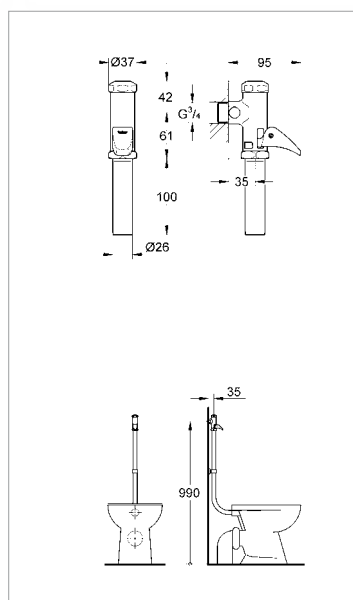
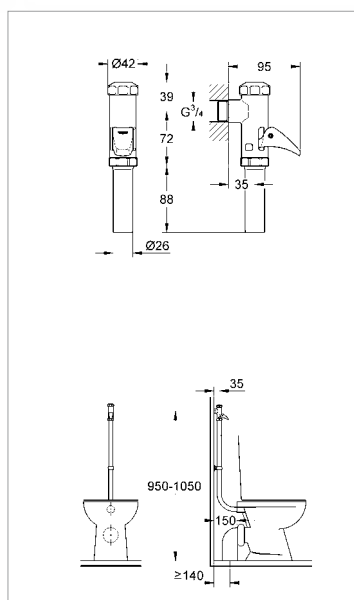
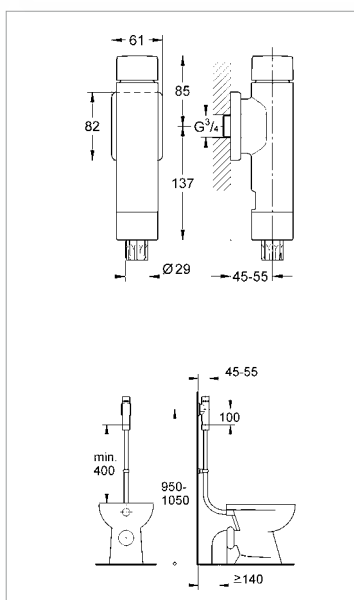
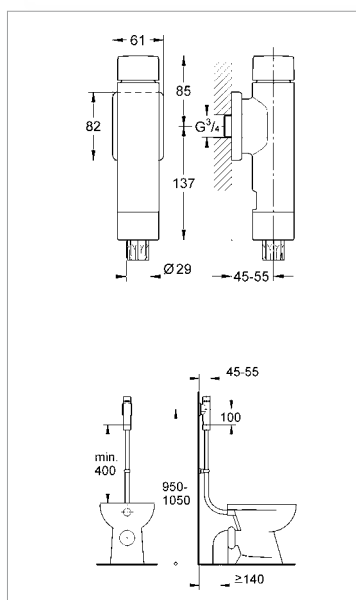
½", for high and low level flushing cisterns

38 801 PIO Eco set

retro-fit unit for close-coupled flushing cisterns, with filling valve, dual flush discharge valve AV1, GROHE StarLight® push button actuation Ø 40 mm with Eco knob, with fixing set

GROHE WC INSTALLATIONS

EXPOSED AND CONCEALED WC FLUSH VALVES



37 349 000 Rondo A.S. Exposed flush valve for WC

¾", with integrated stop valve, Fitting Group I, chrome plated replaces 37 147 IK0

37 347 000
ditto 37 349 000, but without integrated stop valve, replaces 37 145 IK0

37 388 000 Rondo A.S. Exposed flush valve for WC

¾", heavy duty, brass, control cap and connection to brass flush pipe, with integrated stop valve, 6 - 9l adjustable, chrome plated

37 141 000 Exposed WC flush valve (DAL full-automatic flush valve) ¾", Fitting Group II, chrome plated

37 139 000 Exposed WC flush valve (DAL automatic flush valve) ¾", chrome plated

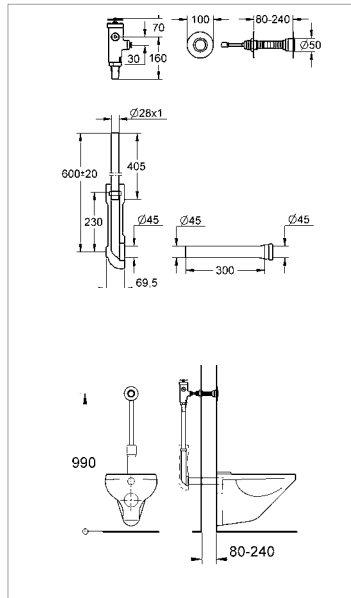
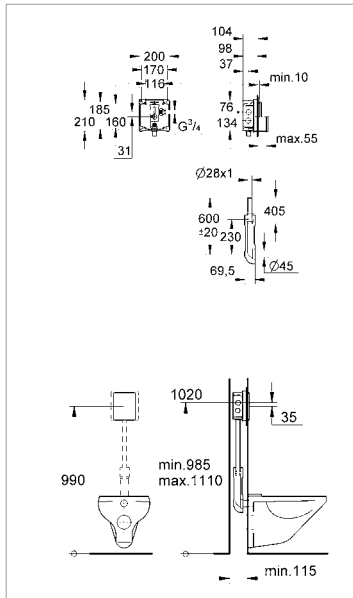
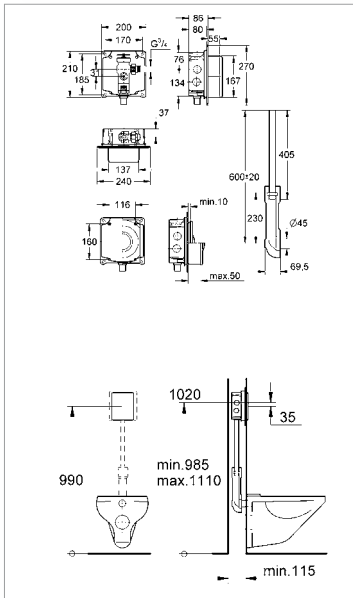


GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoCare
ErgoTouch



37 153 000

Concealed flush valve

¾", with box for concealed installation, Fitting Group I, with flush elbow, flush pipe, without wall plate

37 157 000

ditto 37 153 000, but for low pressure levels, 0.6 - 3.0 bar flow pressure range

Concealed flush valves 37 153 000 and 37 048 000 in elements Rapid SL, see chapter installation systems Rapid SL.

37 048 000

Concealed flush valve

¾", with connection for solenoid valve (for electrical actuations), with integrated stop valve, Fitting Group I, with flush elbow and flush pipe, without wall plate

37 609 000

Concealed flush valve

¾", for installation behind the wall, for public use, stop valve, push button actuation, flow pressure range from 1.2 - 5.0 bar, with actuation set suitable for wall of 80 - 240 mm thickness, actuation stop

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.



GROHE URINAL INSTALLATIONS

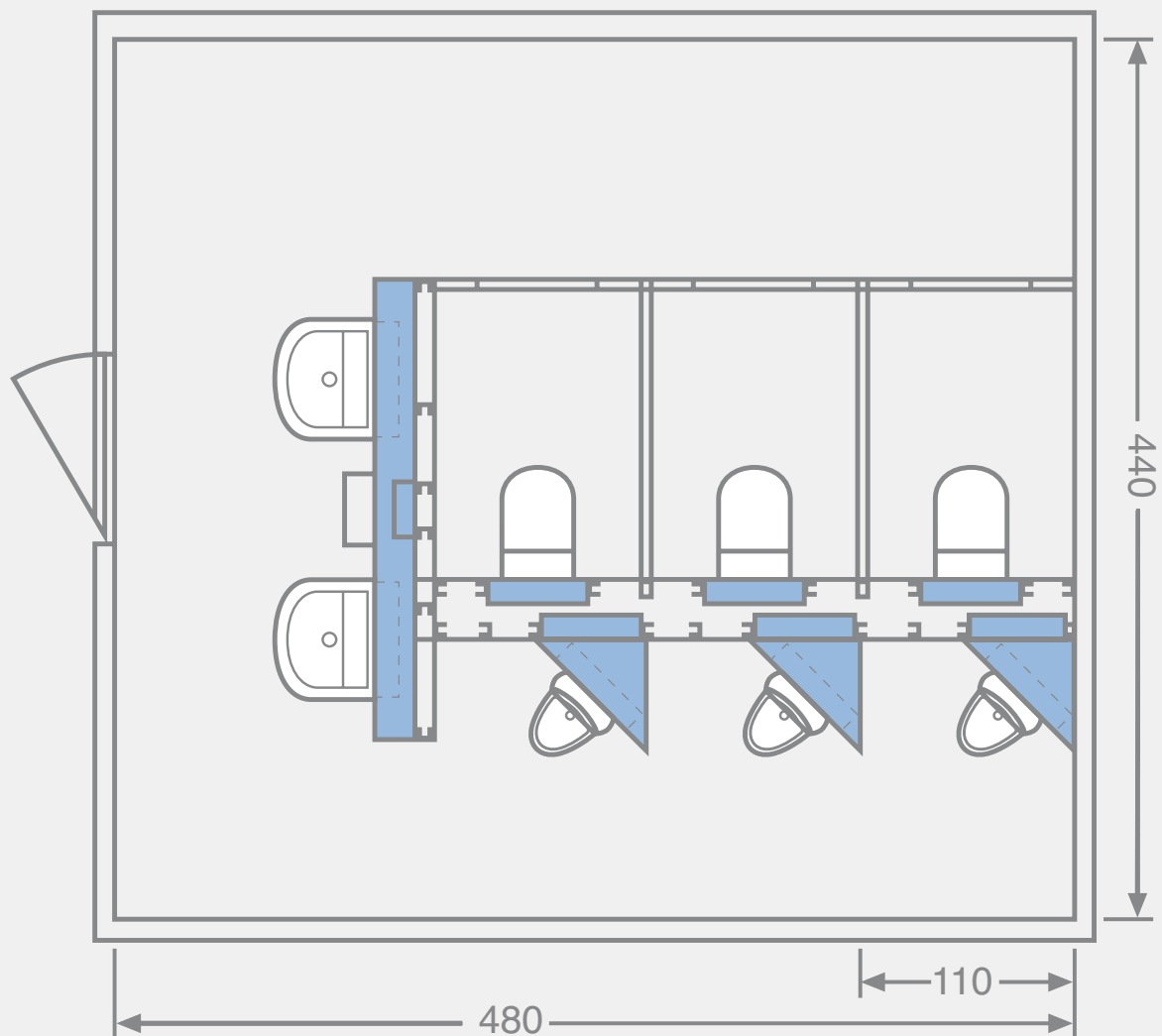
Plan perfect urinal installations and trendsetting water technology. Look for urinal fittings which are uncompromising in the area of hygiene: because cleanliness is the primary concern. Ensure that you have a complete set of furnishings, a friendly, hygienic overall impression and fittings which function without needing to be touched. Beyond that, present modern technology in an advantageous design – and use the Rapid/Uniset installation systems thereby for optimum design and simple installation.



GROHE URINAL INSTALLATIONS

PERFECT PLANNING, OPTIMAL COMPOSITION

Using this cunning design makes it possible to free the floor plan away from the usual system of "everything along the wall". The triangular shape determines the view in the urinal room-and makes separations superfluous.





GROHE StarLight®

Radiant chrome finish resistant to soil and tarnishing - stays like new for years.



GROHE EcoJoy™

Integrated water-saving technology reduces water and energy consumption without compromising on design and performance.



Longlife Battery Electronic

No change of batteries for over seven years.



TouchFree

Touch-free operation for maximum hygiene, economy and user comfort.



GROHE URINAL INSTALLATIONS

URINAL ELECTRONICS FOR HYGIENIC, TOUCH-FREE ACTUATION



Infra-red electronic Tectron.

Tectron: Just one electronic system for all variants.

For exposed and concealed installation, for 230 V (mains) or 6 V (battery).

With Tectron you only need to deal with a single electronic system. This is a great advantage for sanitation professionals in terms of installation and maintenance.

With Tectron you can rely on a high level of continuous use capability as well as functional security. Energy consumption is kept at very low levels through optimum accommodation between electronics, solenoid valve and battery. That is the reason why the battery has such an extremely long service life in the 6 V model (over 7 years at 150 uses per day).

An ideal addition is the remote control unit 36 206 000 with which settings can be made on all Tectron fittings.



Radar electronic.

Invisible and very nearly vandal-proof.

For mounting individual exposed units.

The radar electronic detects movements in front of the urinal and evaluates them for the flushing procedure. User registration takes place by means of a detector which is invisibly mounted behind the urinal bowl:

- in case of conventional installation behind the bowl
- if mounted with Rapid SL, the radar is positioned behind the wall, above the basin – so any urinal basin can be used.

Because the solenoid valve and the control unit are both mounted in the wall the entire installation remains invisible in the wall of tiles - which secures it against most vandalism. An external installation of these components is possible. For the radar electronic also settings can be made with the remote control unit 36 206 000. The cleaning of these urinal units is unproblematic due to the smooth, uninterrupted tile surface.

MANUAL ACTUATION



Concealed urinal flush valve Rapido U.

Practical, proven and a good design.

Manually-actuated urinal installations are to be recommended, e.g. in the private sector, in commercial toilet installations with a more or less unchanging user public.

The manually-actuated concealed urinal flusher is finished off the exclusive Skate Cosmopolitan wall plate, the well-known Surf or Nova Cosmopolitan. Available in Cosmopolitan, Contemporary and Authentic design styles, the plates complement the GROHE range of WC actuation plates – allowing for a coordinated look throughout your project. A quiet-running technology is concealed behind the cover plates - Fitting Group II. The rapid changeover settings for 2, 4 or 6 ltr flush volumes have proven themselves practical.

Rapido U can be utilised at flow pressure ranges starting as low as 0.5 bar. The success of this fitting is backed by brand-name security and the fine design of the cover plate.



Exposed urinal flush valve Rondo.

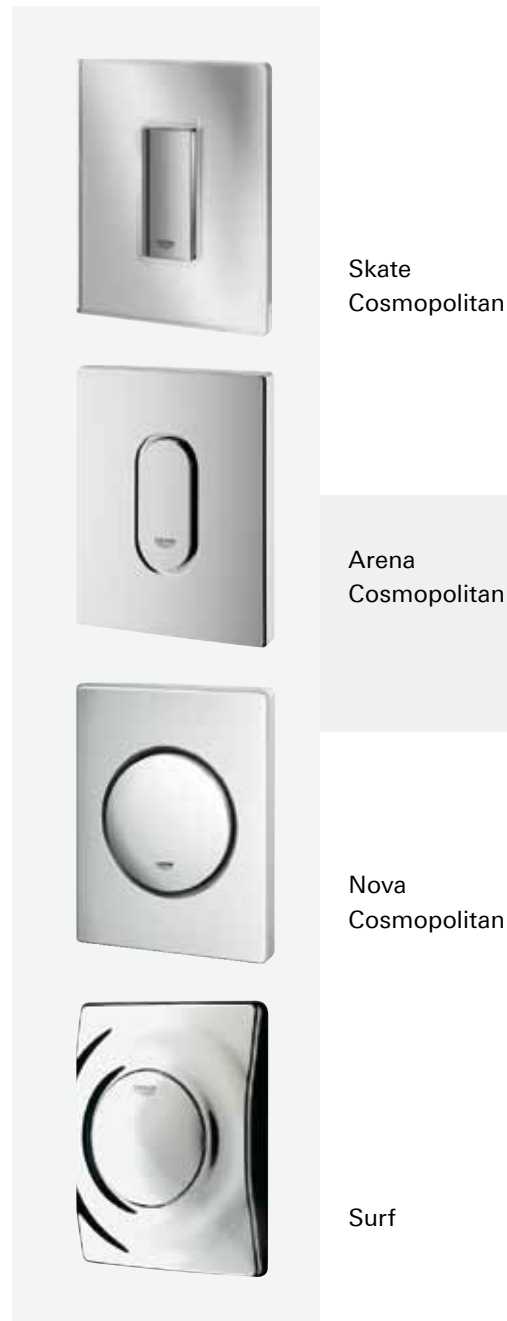
Robust and elegant in form.

Manually-actuated GROHE urinal flush valves can be found world-wide – a sign of their popularity and functional security. The brass housing of the 37 339 000 with GROHE StarLight® chrome surface stands up to greater levels of everyday wear and tear. For situations with still greater traffic, the even more robust heavy-duty model can be utilised.

At the same time, the good form has also achieved recognition - a sign that design can certainly find its place in both commercial and public urinal installations. The 37 339 000 can be utilised at levels starting with 0.5 bar flow pressure range and can be set to flushing volumes of 2.0-6.0 ltr.

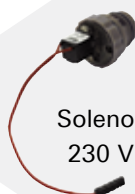
GROHE RAPIDO U UNIVERSAL CONCEALED BODY FOR THE INSTALLATION OF URINALS

With a mounting depth of only 80 mm Rapido U can be used in all common masonry and in studed wall partitions. The inspection chamber can be continuously reduced to match the tile pattern. Equipped as standard the roughing-in set disposes of a watergroup with stop valve and flush aid. For the mains supply 230 V, a connecting box is included. The dimensions of the manual and electronic operations have been streamlined so that a later upgrade with infrared Tectron 6 V is possible – easy and rapid.





Cartridge



Solenoid valve
230 V or 6 V



Tectron Skate,
chrome



Tectron Skate,
stainless steel



Tectron Surf,
chrome

GROHE TECTRON

THE INFRA-RED ELECTRONIC FOR HYGIENIC URINAL INSTALLATIONS

Planners, craftsmen and end users can choose among a variety of designs (Surf and Skate) and surfaces (including stainless steel) with Tectron concealed electronics. In addition, Tectron is also available in the variants 230 V (mains connection) or 6 V (battery operation).

You can rely on years of functional security. And even more security is provided for you by the moisture resistance feature (protection type IP 55). An essential point is the low level of energy consumption and with it the battery's 7 years of expected service life (150 users/day).

Since recent urinal bowls enables 1 litre flush volume you might apply this flush volume also to Tectron and to radar controlled urinal electronics.

And the beauty of it: many settings can be made with ease using the remote control unit 36 206 000. In addition, the flushing time setting can be modified by bringing one's hand in close.



Skate, chrome



Skate, stainless steel



Surf, chrome

SIMPLE CONVERSION TO HYGIENIC URINAL INSTALLATIONS

More than 1 million manually actuated 37 021 000 urinal flush valves and almost as many 37 017 000 and 509 concealed urinal flush valves are on the market and could be converted for the greater hygiene. The decision to do so is made easier by the attractive price and the simplicity of installation - no mains connection, but rather a 6 V battery energy supply. Be assertive in offering the Tectron for conversion purposes: it will certainly be worth your while.

The advantages at a glance.

Simple

1-2-3 and the conversion is complete. In 3 installation steps, simpler than you think.

Profitable

An attractive price makes it easier to decide to convert – and to have considerably greater hygiene.

Top design

Innovative and looking good.

Electronic

Automatic operation through Infra-red electronics. Without needing the irritating hand pressure.

Rapid

Conversion in just a few minutes.

Durable

The 6 V lithium battery lasts 7 years with 150 uses per day.

Practical

37 021 000 and 37 017 000 fittings come equipped with an integrated stop valve, which makes conversion even simpler.



Conversion at lightning speed using Tectron with 37 021 000

At the blink of an eye:

- Shut off the water using the integrated stop valve
- Remove the control cap and the internal cap
- Pull out the old plunger with its spring

Installation of the new Tectron 37 640 000:

- Insert new plunger with spring
- Mount Tectron on the body of the old fitting
- Insert battery and secure cap in place



Conversion at lightning speed using Tectron with 37 017 000 and 509

Just as fast:

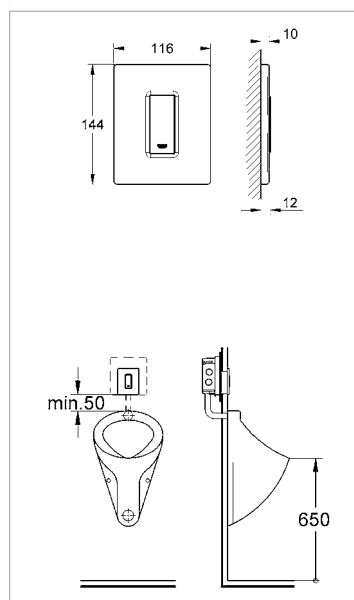
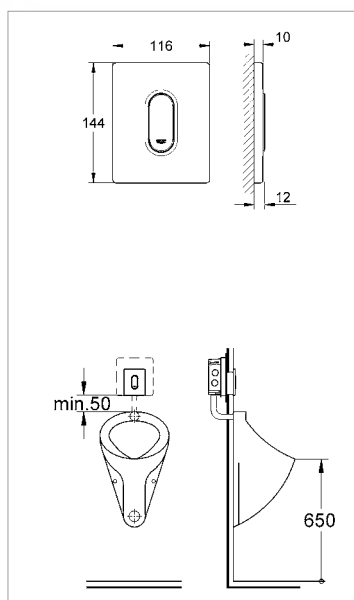
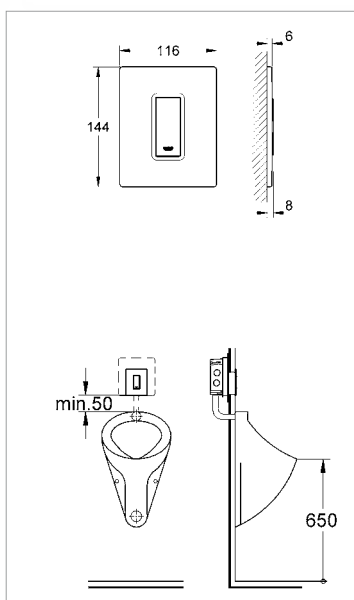
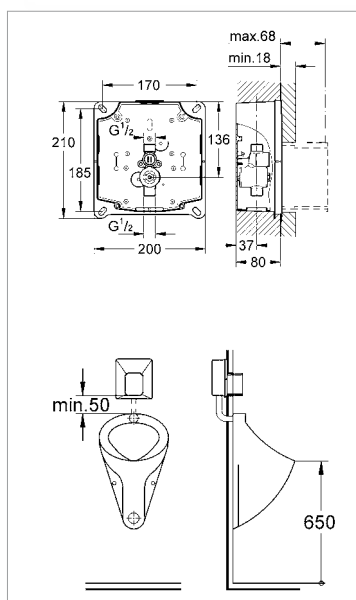
- Detach actuation plate
- Close integrated stop valve
- Detach support frame and inner part

Installation of the new Tectron 37 751 000:

- Install solenoid valve
- Mount support frame
- Make plug connection
- Mount housing

GROHE URINAL INSTALLATIONS

MANUAL / ELECTRONIC ACTUATIONS FOR RAPIDO U



37 338 000

GROHE Rapido U

roughing-in set for urinal, for manual actuation or Tectron infra-red electronic 6 V or 230 V, with stop valve, flush aid

38 787 000

GROHE Rapido UMB

roughing-in set for urinal, for manual actuation or Tectron infra-red electronic 6 V, with stop valve, flush aid

38 846

Wall plate Skate Cosmopolitan

with glass surface, plastic actuation button, chrome plated Surfaces:

LS0 moon white,
KS0 velvet black,
BS0 chrome/titanium,
MF0 chrome/daVinci satin

38 857

Wall plate Arena Cosmopolitan

manual actuation for urinal, 116 x 144 mm Surfaces:

000 chrome
SH0 alpine white
P00 mat chrome

38 784

Wall plate Skate Cosmopolitan

manual actuation for urinal, 116 x 144 mm Surfaces:

000 chrome
SH0 alpine white
P00 mat chrome
BR0 anti-fingerprint

38 784 SDO

ditto, but stainless steel, hidden fixing screws



GROHE StarLight®



GROHE EcoJoy™

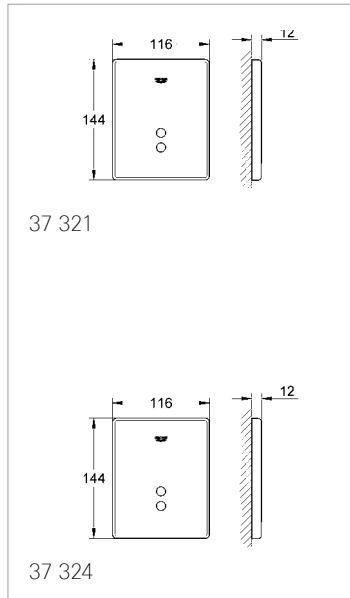
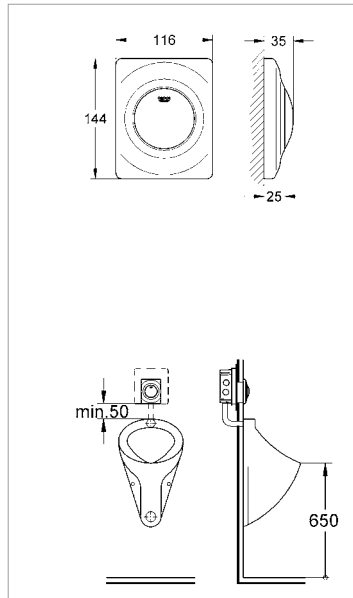
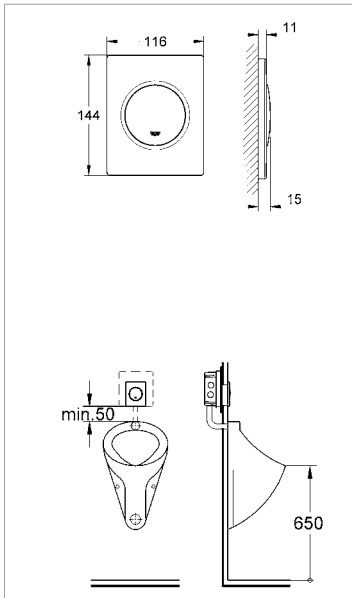
GROHE features:
EcoCare
ErgoTouch
TouchFree



min. 1 litre

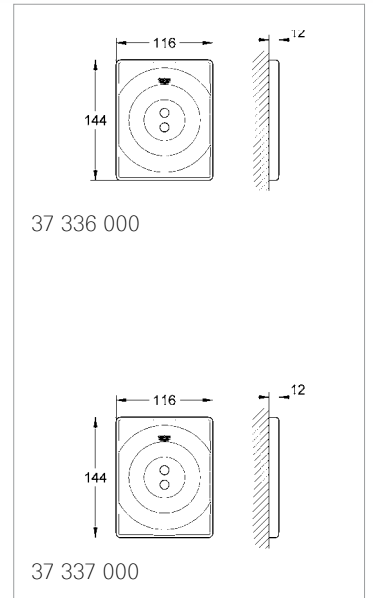


min. 1 litre



37 321

37 324



37 336 000

37 337 000

38 804 Wall plate Nova Cosmopolitan

manual actuation for urinal,
116 x 144 mm

Surfaces:

000 chrome

SH0 alpine white

P00 mat chrome

38 808 Wall plate Surf

manual actuation for urinal,
116 x 144 mm

Surfaces:

000 chrome

SH0 alpine white

P00 mat chrome

37 321 Tectron Skate

set for final installation for
Rapido U, infra-red control, 230 V
AC, solenoid valve, without
roughing-in set,
Front plate/Surfaces:

000 chrome

SD0 stainless steel

37 324

ditto 37 321, but with 6 V DC
battery supply

37 336 000 Tectron Surf

set for final installation for
Rapido U, infra-red control, 230 V
AC, solenoid valve, front plate
chrome, without roughing-in set

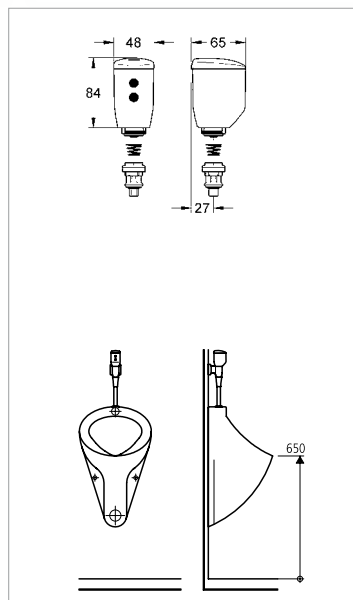
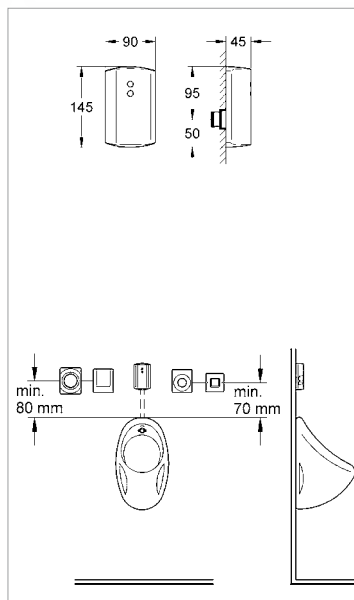
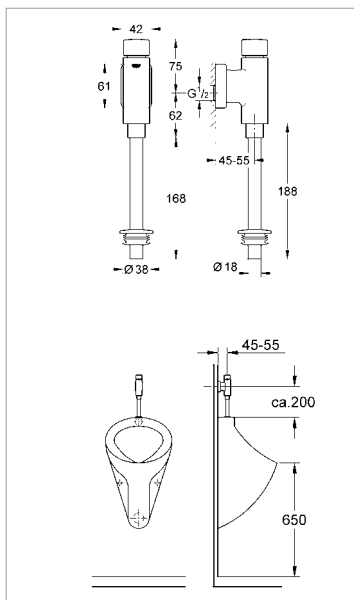
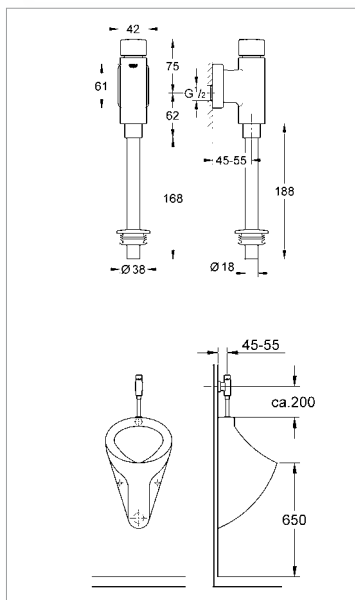
37 337 000

ditto 37 336 000, but with 6 V DC
battery supply

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE URINAL INSTALLATIONS

MANUAL / ELECTRONIC FITTINGS, EXPOSED



37 339 000

Rondo

Flush valve for urinal

1/2", integrated stop valve, flush pipe 200 mm, rubber connector with escutcheon, chrome

37 342 000

Rondo

Flush valve for urinal

1/2", for heavy duty, integrated stop valve, flush pipe 200 mm, rubber connector with escutcheon, chrome

37 751 000

Tectron retro-fit unit

battery supply, exposed installation, for concealed urinal flush valve 37 017 000 and DAL 509, with infra-red electronic, solenoid valve, metal housing, chrome

37 640 000

Tectron retro-fit unit

battery supply, exposed installation, with infra-red electronic, metal housing

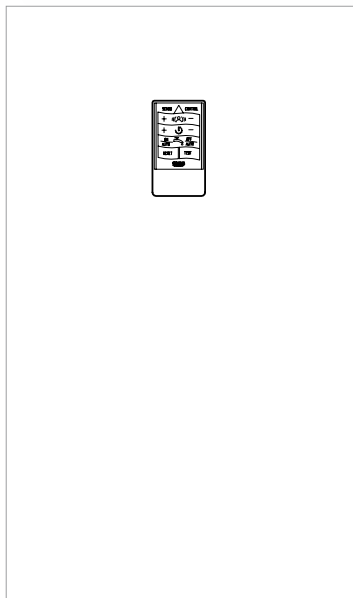
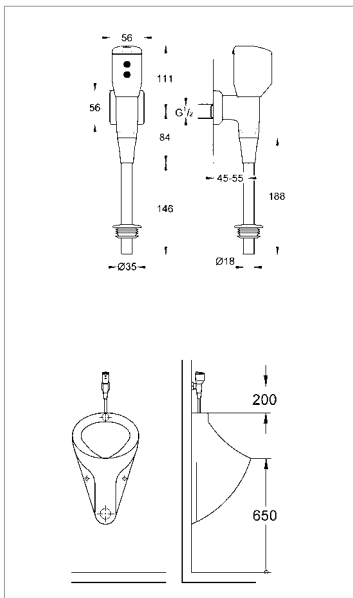


GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoCare
ErgoTouch
TouchFree



37 713 000

Tectron compact fitting

battery supply, exposed installation, infra-red control with battery LED, metal housing, integrated stop valve, flush pipe, chrome

36 206 000

Infra-red remote control

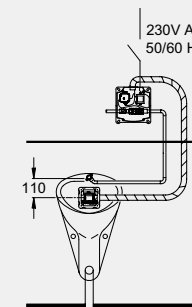
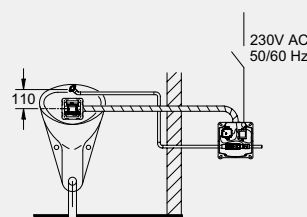
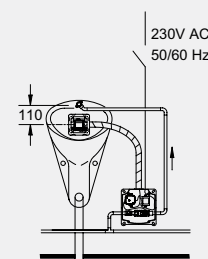
for radar, Tectron and Europlus E, adjustment of detection zone and flushing time, 2 x 1.5 V DC battery supply

GROHE RADAR ELECTRONIC INVISIBLE AND VERY NEARLY VANDAL-PROOF

The radar electronic detects movements in front of the urinal and evaluates them for the flushing procedure. User registration takes place by means of a detector which is invisibly mounted behind the urinal bowl! Because solenoid valve and control unit are both mounted in the wall the entire installation remains invisible in the wall of tiles - which secures it against most vandalism. An external installation of these components is possible. For the radar electronic also settings can be made with the remote control unit 36.206.000. The cleaning of these urinal units is unproblematic due to the smooth, uninterrupted tile surface.



**Radar electronic,
external installation**



GROHE StarLight®

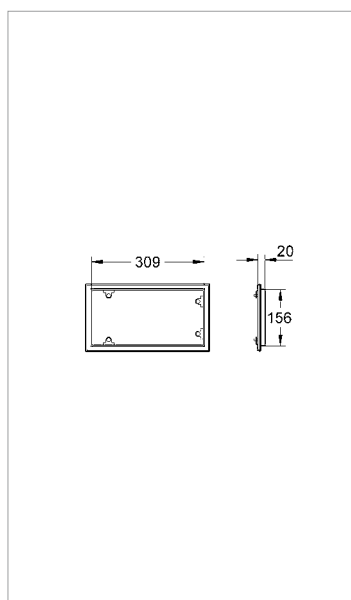
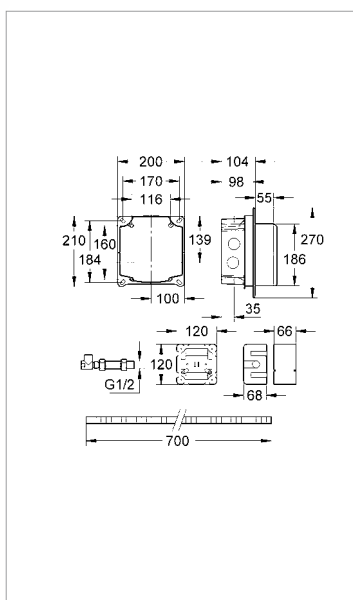
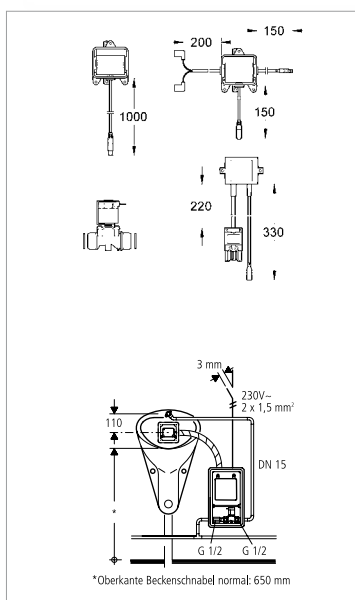


GROHE EcoJoy™

GROHE features:
EcoCare
ErgoTouch
TouchFree

GROHE URINAL INSTALLATIONS

RADAR ELECTRONIC



38 386 000

Radar electronic

set for final installation for urinal concealed or external installation, with radar detector, control unit, solenoid valve 1/2", without roughing-in set, without tiling set

38 387 000

Roughing-in set radar

electronic with box for concealed installation for radar detector, stop valve and flush elbow

37 002 000

Tiling set

for concealed control units, with frame for tiles

36 206 000

Infra-red remote control

for radar, Tectron and Europlus E, adjustment of detection zone and flushing time, 2 x 1.5 V DC battery supply

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.



GROHE ACTUATIONS

Cosmopolitan, Contemporary or Authentic – whatever your preferred interior style, GROHE actuation plates allow you to create a cohesive design story throughout the bathroom. Available in **GROHE StarLight®** chrome, our discreet plates complement our faucet collection and can be fixed vertically or horizontally. The flushing volume can be defined by the customer, choose from dual flush, start/stop or single flush. For further water saving, all GROHE cisterns can be adjusted to flush with a reduced volume. For fast installation they feature GROHE EasyConnect – a single pneumatic hose, which connects the plate to the discharge valve.



GROHE ACTUATIONS ALLROUNDERS WITH STATE-OF-THE-ART FLUSHING TECHNOLOGY

Water is a precious resource and its treatment is becoming more and more expensive. This means that now is the time to save water. With the state-of-the-art flushing technology from GROHE - the start/stop systems and dual flush - water can be saved in a sensible way and in line with the user's preferences in any given situation.





GROHE StarLight®

Radiant chrome finish resistant to soil and tarnishing - stays like new for years.



GROHE EcoJoy™

Integrated water-saving technology reduces water and energy consumption without compromising on design and performance.



EasyConnect

The actuation is connected to the AV1 by a hose. This means straightforward connection without measuring and adjustment, also after maintenance.



EcoCare

Reduces water consumption by more than 50 %. Activation of the GROHE EcoButton releases a smaller water quantity of 3 l.



GROHE ACTUATIONS SOLUTIONS FOR YOUR ENTIRE BATHROOM

Today's bathroom is no longer just a functional room for cleaning and grooming.

It is a place where we like to spend time and pamper ourselves, a place of wellbeing and inspiration. In this environment, even the WC actuation plate is no longer merely a utility item but should be an integral element of a coordinated bathroom meeting the highest demands.

Needless to say, this also applies to the lavatory and guest lavatory which all benefit from carefully coordinated actuations for both WCs and urinals.

Cosmopolitan



Visibly different, noticeably better

This brochure shows you the comprehensive, up-to-date GROHE range of innovative WC and urinal actuations. In three styles: **Cosmopolitan, Contemporary and Authentic.**

Show your sense of style.

Whatever your preference – GROHE has just the right actuation plate for any bathroom style, allowing you to design the stylishly coordinated bathroom of your dream. Have fun!

Possible combinations of wallplates and faucets please find on pages GROHE design combinations, for page numbers please refer to contents.

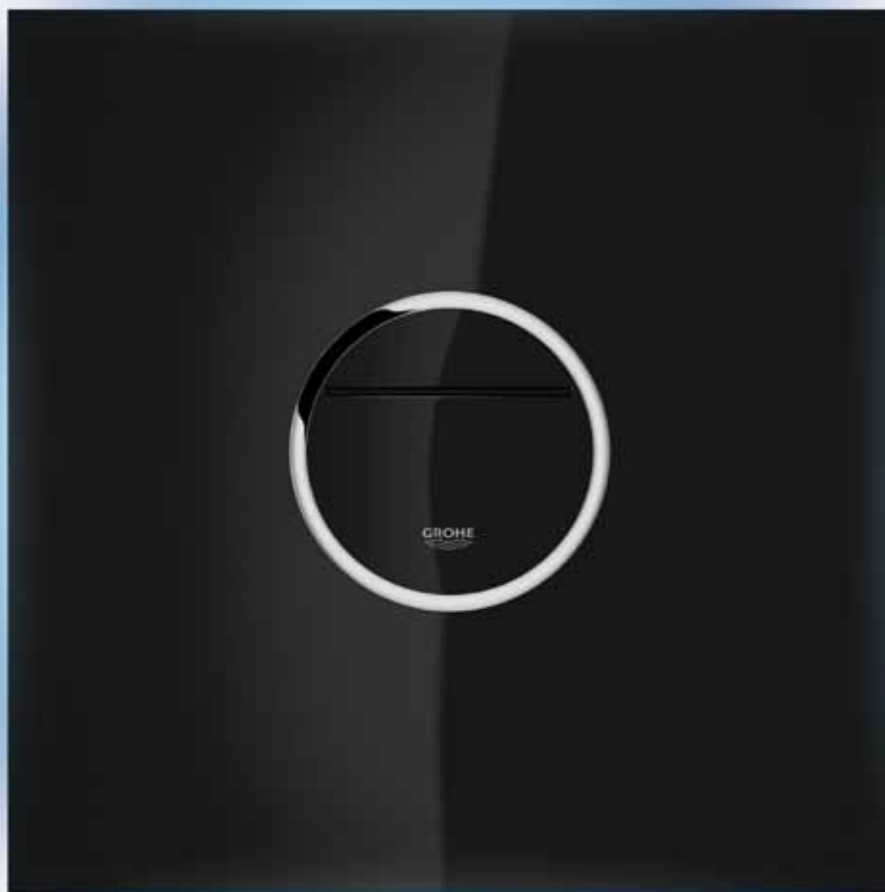
Contemporary



Authentic



GROHE ACTUATIONS INNOVATIVE DESIGN AND CONSTANT INSPIRATION



GROHE Ondus® Digitecture Light

A highlight frequently found in today's upscale living rooms is now also available for bathrooms: Backlights as used, for example, on high-tech TV screens inspired GROHE to develop Ondus® Digitecture Light, a WC flush plate with ambient lighting. Users can choose the ambient light they prefer from a range of over 200 different colours.

The elegant 200 x 200 mm WC glass flush plate matches the GROHE Ondus® design and is available in velvet black and moon white.

GROHE Ondus® Digitecture Light features a simple combination of a square and a circle with a GROHE StarLight® chrome-framed push button. The two-volume flush can be operated with or without touching the plate.



Nova Cosmopolitan Light

Unique, colourful and pure, Nova Cosmopolitan Light is no doubt one of the most outstanding designer products of our time. With its LED-illuminated coloured ring, this unique WC actuation makes an innovative design statement in a product which has traditionally kept a low profile. Nova Cosmopolitan Light is loved by people who appreciate the extraordinary.



Arena Cosmopolitan

The GROHE Visual DNA – circle, 7° angle and lozenge – stands for clarity and emotion in an actuation plate whose user-friendly shape encourages intuitive interaction.

The lozenge shape is a characteristic feature of Arena Cosmopolitan and embodies the GROHE philosophy of Sensual Minimalism. It adds a noticeably human touch to the traditional minimalist design. Also available as urinal actuation.

GROHE ACTUATIONS INNOVATIVE DESIGN AND CONSTANT INSPIRATION



Skate Cosmopolitan Leather

High-quality and sustainable furniture design is increasingly finding its way into modern bathrooms. Inspired by the elegance of the living area, GROHE created the new leather surface for WC flushing plates as a stylish alternative to conventional actuation plates. Available in black, white, beige and taninred, the extraordinary surface of GROHE Skate Cosmopolitan Leather comes in a stitched or smooth variant. Invisible magnetic fixings as well as the GROHE StarLight® chrome surface of the push button and the frame complete the design.



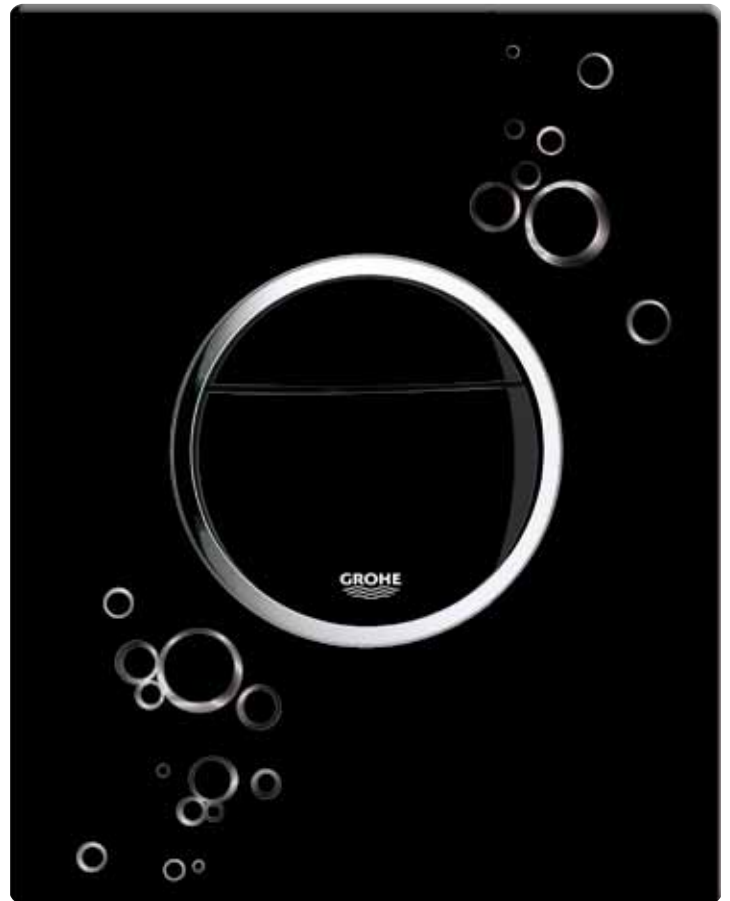
Skate Cosmopolitan Glass

Water and glass share many visual properties and are an excellent match in many respects. This is ideally reflected in Skate Cosmopolitan Glas, whose polished surfaces and bevelled edges exude an air of precision and quality. With a plate thickness of only 6 mm, minimalist design takes maximum effect. Available for WCs and urinals.



Skate Cosmopolitan Wood

There is hardly a material that creates such an authentic and warm atmosphere as wood - even in the bathroom, where the new Skate Cosmopolitan Wood actuation makes a highly individual and exclusive statement. These unique actuations are available in a first-class selection of six stylish real wood veneer surfaces.



Nova Cosmopolitan Print

Why go for something bland when you can have it unusual and inspiring? Nova and Skate Cosmopolitan Print from GROHE open up entirely new and unique design options for your modern bathrooms. Made from high-quality chrome, the stylish Nova/Skate Print surfaces are real gems for all lovers of avant-garde design.

GROHE NOVA COSMOPOLITAN LIGHT BRIGHT AT NIGHT

Reflecting the design aesthetic of the GROHE Cosmopolitan faucet and shower lines, the Nova Cosmopolitan Light actuation plate utilizes two basic geometric shapes. This simple combination of a circle framed by a rectangle is brought to life by a ring of light, while casting a gentle coloured glow over the surrounding areas. Mains-powered LED technology allows you to set the light to any colour – blue, green, red, yellow or one of the many tones in-between – or to have a constantly changing spectrum. Finished in GROHE StarLight® chrome, Nova Cosmopolitan Light can be mounted in either landscape or portrait format and can be programmed to switch on and off at any given time.



Small dimensions and matching design for all kinds of usage.
Vertical or horizontal installation to match the tile pattern.



GROHE FRESH

CLEAN FRESHNESS AT THE PUSH OF A BUTTON

Creating innovative solutions for everyday problems is something that GROHE is proud of. GROHE Fresh brings a new level of convenience to the bathroom. It allows you to have the best of both worlds – the clean lines achieved from choosing a concealed cistern and the continuous hygiene and cleanliness associated with cistern blocks.

Until now, it was not possible to access a concealed cistern to add a cleaning block. GROHE Fresh features an easy-to-open actuation plate, which gives access to a slide delivering the tablet into the cistern. The entire process takes seconds, thanks to the hinged plate that opens like a door.

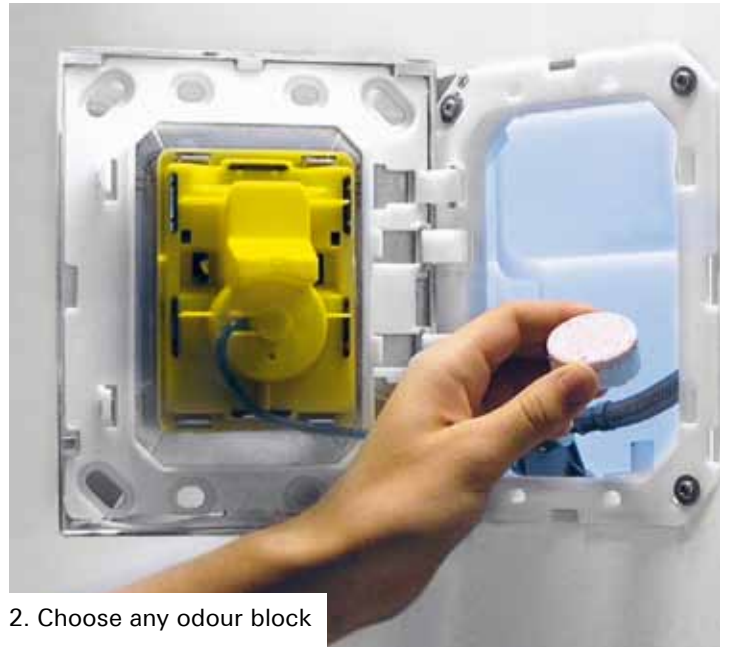
GROHE Fresh is compatible with all GROHE concealed cisterns with small actuation plate – whether it's a new installation project or the upgrade of an existing one. It is offered as a set with the actuation plate of your choice, or as retrofit accessory to use with your current cistern and plate. For older cisterns, simply remove the fixing frame, add the slide to the cistern and attach the new frame, then re-connect the pneumatic hose to the actuation plate. For cisterns without the AV1 flushing valve, a complete upgrade kit is available.



Standard WC tabs in concealed flushing cisterns? No problem with GROHE Fresh!



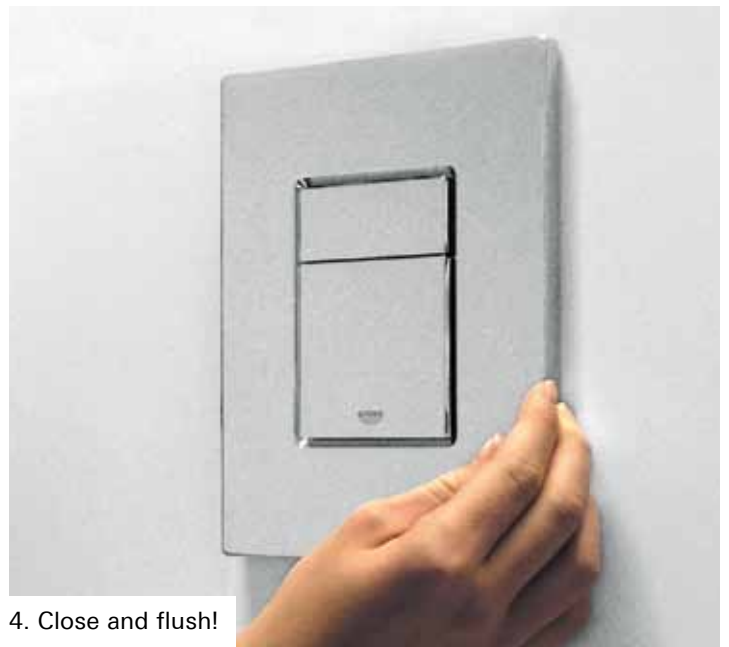
1. Open actuation of the cistern with a fingertip



2. Choose any odour block

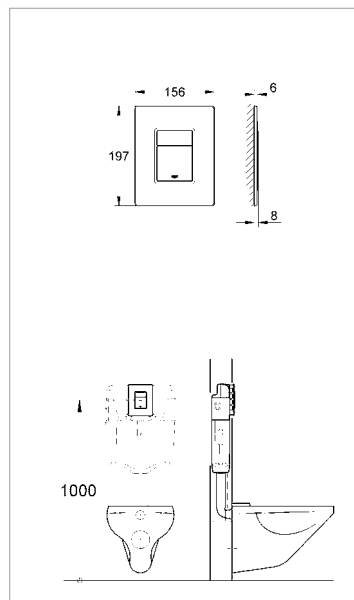
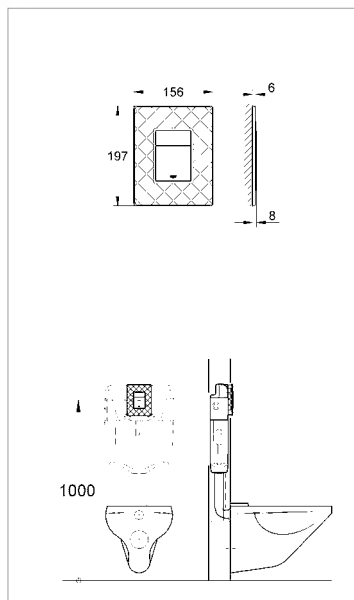
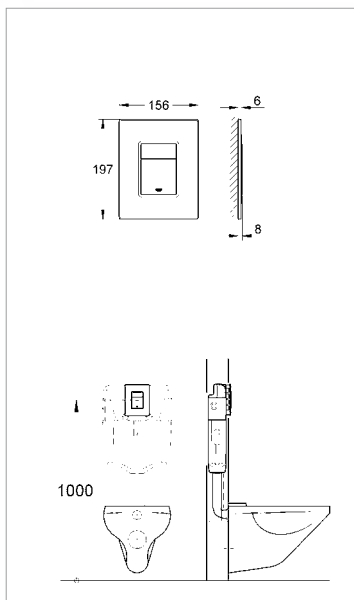
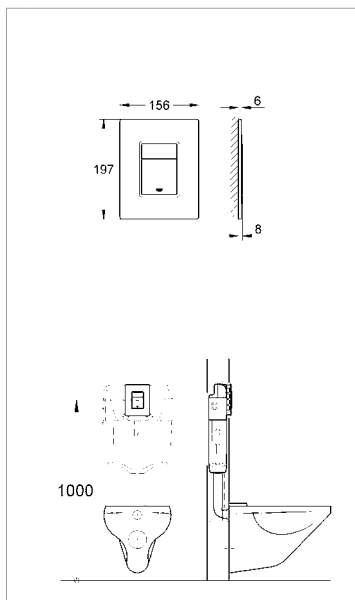


3. Slide in the cleaning tab



4. Close and flush!

GROHE WC ACTUATIONS FOR DUAL FLUSH AND START/STOP



38 845 Skate Cosmopolitan Wall plate

with glass surface, made of security glass, vertical and horizontal installation, for pneumatic discharge valve AV1, flushing cistern 6 - 9 l

Surfaces:

LSO moon white,
KSO velvet black,
BSO chrome/titanium,
MFO chrome/daVinci satin

38 916 OAO

ditto 38 845, but with mirror surface

38 849 Skate Cosmopolitan Wall plate

with wood surface, plastic frame and actuation buttons, chrome/mat chrome plated, vertical and horizontal installation, for pneumatic discharge valve AV1, flushing cistern 6 - 9 l

Surfaces:

frame/button chrome:
HPO american walnuss,
HRO macassar,
HSO american cherry

frame/button mat chrome:

HWO natural oak,
HTO ash olive,
HVO bamboo

38 913 Skate Cosmopolitan Wall plate

with leather surface, quilted, plastic frame and actuation buttons, chrome plated, vertical and horizontal installation, for pneumatic discharge valve AV1, flushing cistern 6 - 9 l

Surfaces:

XMO taninred,
XNO black,
XPO cashmere beige,
XRO white

38 914 Skate Cosmopolitan Wall plate

with leather surface, plastic frame and actuation buttons, chrome plated, vertical and horizontal installation, for pneumatic discharge valve AV1, flushing cistern 6 - 9 l

Surfaces:

XMO taninred,
XNO black,
XPO cashmere beige,
XRO white

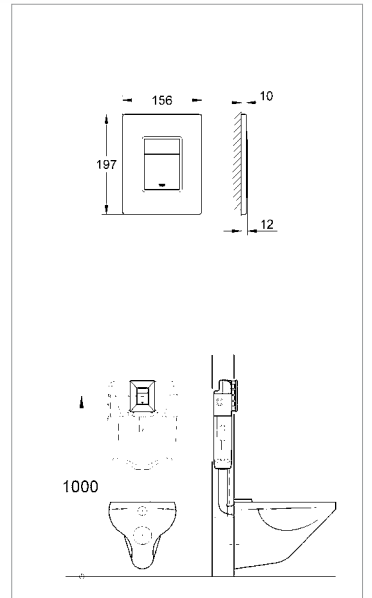
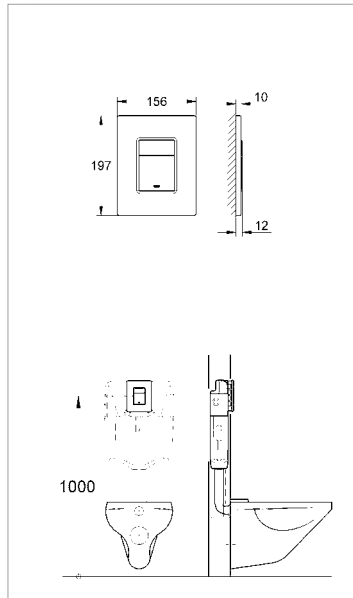
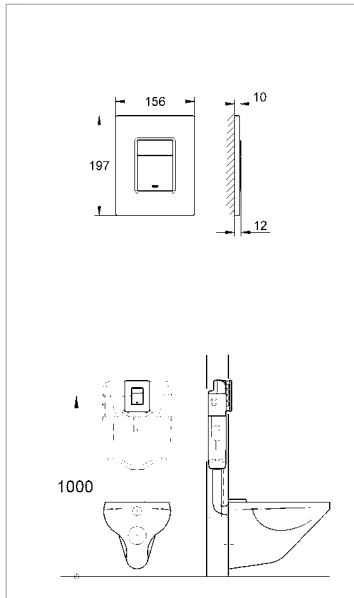
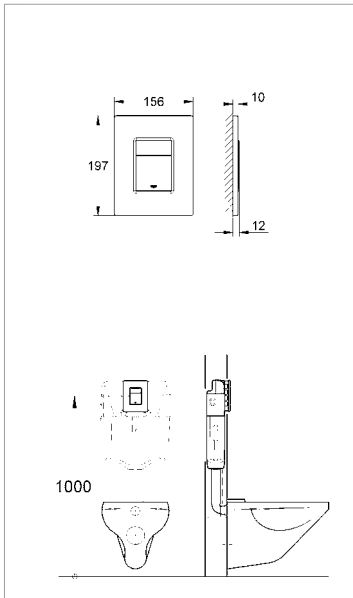


GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoButton
EasyConnect



38 821 000
Skate Cosmopolitan
Wall plate

vertical installation, for pneumatic discharge valve AV1, made of brass, chrome plated

38 732 SD0
Skate Cosmopolitan
Wall plate

vertical installation, for pneumatic discharge valve AV1, stainless steel, hidden fixing screws

38 776 SD0
ditto 38 732 SD0, but horizontal installation

38 732 BR0
Skate Cosmopolitan
Wall plate

with anti-fingerprint surface, vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

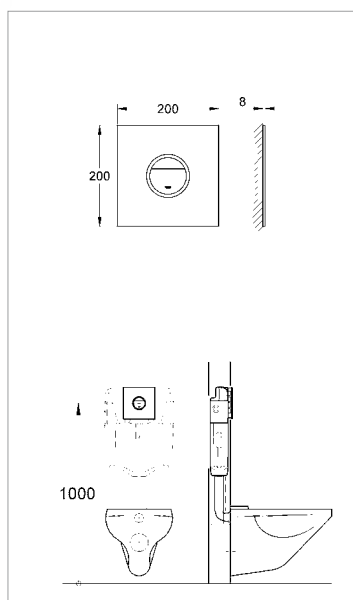
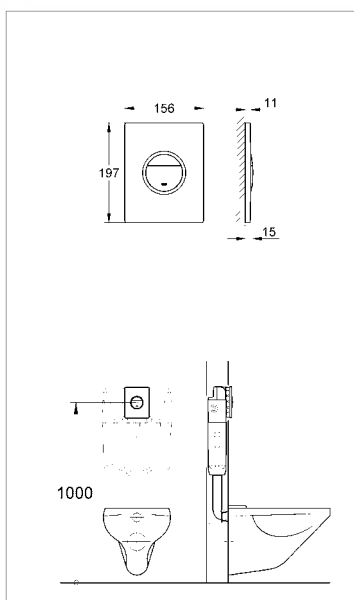
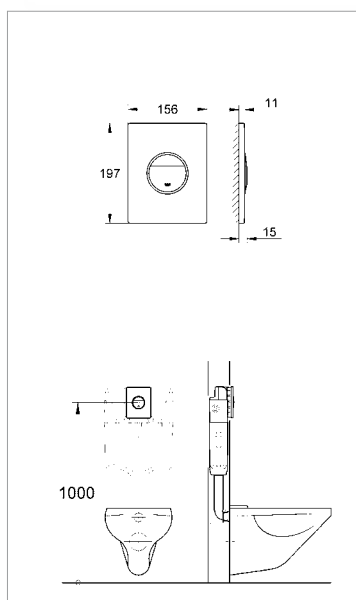
38 732 000
ditto, but chrome

38 859 XG0
Skate Cosmopolitan
Wall plate

with printed graphics, vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE WC ACTUATIONS FOR DUAL FLUSH AND START/STOP



38 766 GROHE Ondus Wall plate

vertical and horizontal installation,
for pneumatic discharge valve AV1,
made of ABS

Surfaces:

KSO velvet black,
000 chrome,
LSO moon white,
BSO chrome/titanium

38 809 000 Nova Cosmopolitan Light Wall plate

external highlighted actuation
outline with LEDs in blue, red,
yellow, green, vertical and
horizontal installation, for
pneumatic discharge valve AV1,
made of ABS, chrome

38 915 GROHE Ondus® Digitecture Light Wall plate

for touch-free flushing activation,
external highlighted outline with
LEDs in blue, red, yellow, green,
vertical and horizontal installation,
for pneumatic discharge valve AV1,
made of security glass

Surfaces:

KSO velvet black,
LSO moon white

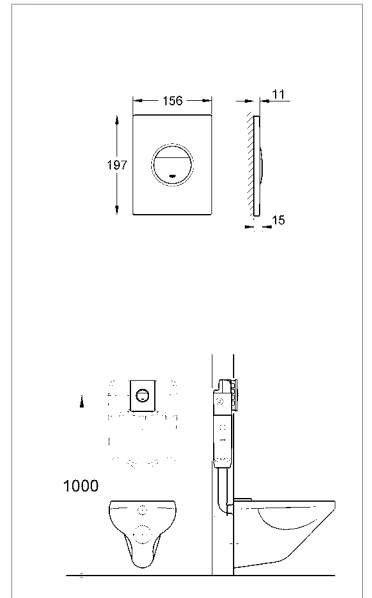
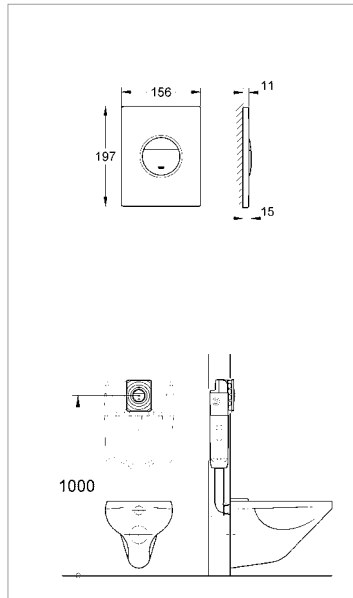
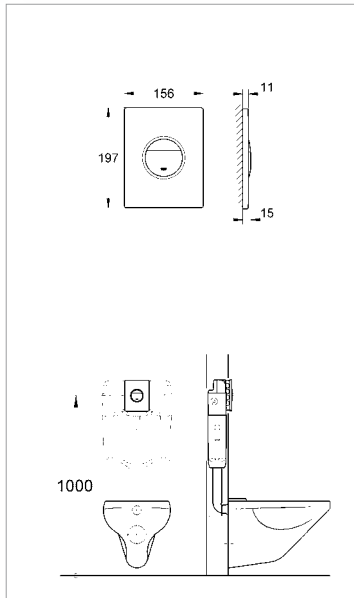
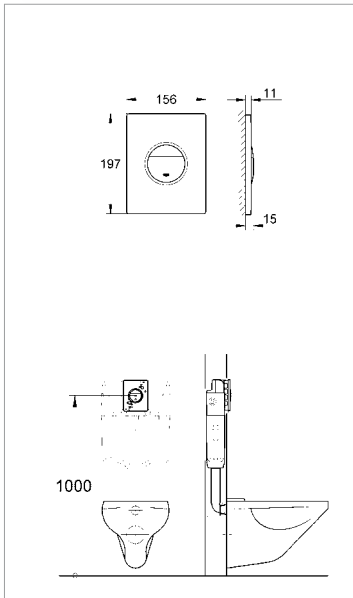


GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoButton
EasyConnect



38 847
Nova Cosmopolitan
Wall plate

with printed graphics, vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

Surfaces:

K10 black/chrome,

L10 white/chrome,

LS0 moon white

38 847 XG0
Nova Cosmopolitan
Wall plate

with printed graphics, vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

38 869 XG0
Nova Cosmopolitan
Wall plate

with printed graphics, vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

38 765
Nova Cosmopolitan
Wall plate

vertical and horizontal installation, for pneumatic discharge valve AV1, made of ABS

Surfaces:

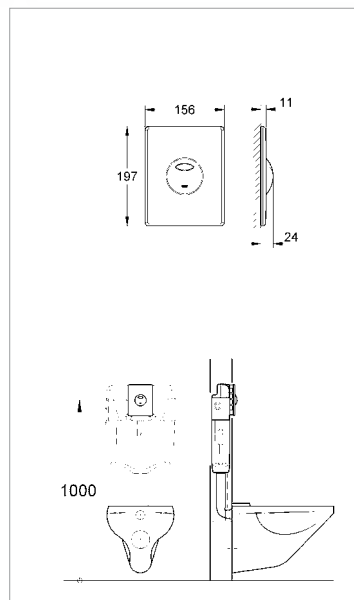
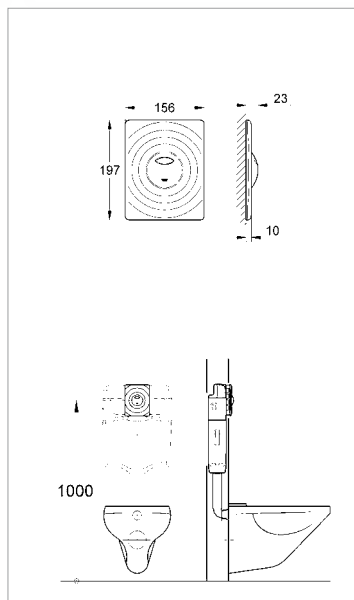
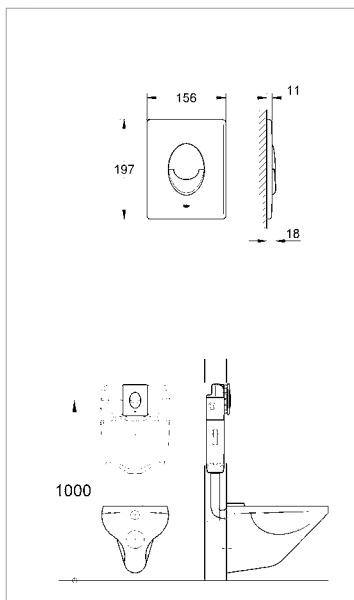
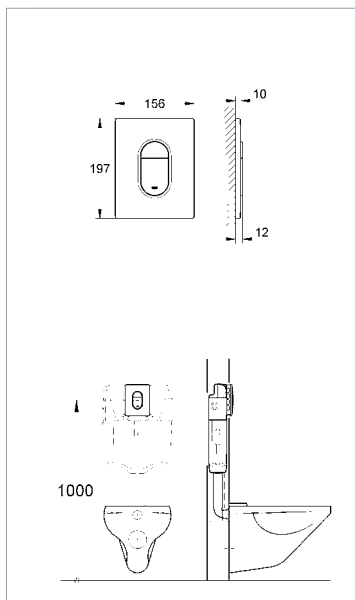
000 chrome,

P00 mat chrome,

SH0 alpine white

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE WC ACTUATIONS FOR DUAL FLUSH AND START/STOP



38 844 **Arena Cosmopolitan** **Wall plate**

vertical installation, for pneumatic discharge valve AV1, made of ABS

Surfaces:

000 chrome,
P00 mat chrome,
SH0 alpine white

38 858
ditto 38 844, but horizontal
installation

38 505 **Skate Air** **Wall plate**

vertical installation, for pneumatic discharge valve AV1, made of ABS

Surfaces:

000 chrome,
P00 mat chrome,
SH0 alpine white

38 506
ditto 38 505, but horizontal
installation

38 861 **Surf** **Wall plate**

vertical and horizontal installation,
for pneumatic discharge valve AV1,
made of ABS

Surfaces:

000 chrome,
P00 mat chrome,
SH0 alpine white

38 862 **Skate** **Wall plate**

vertical and horizontal installation,
for pneumatic discharge valve AV1,
made of ABS

Surfaces:

000 chrome,
P00 mat chrome,
SH0 alpine white

38 862 SD0
ditto, but stainless steel



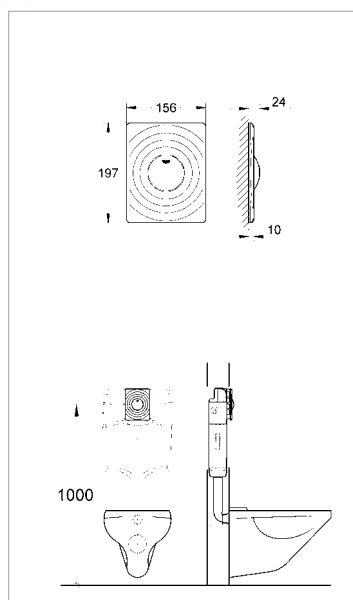
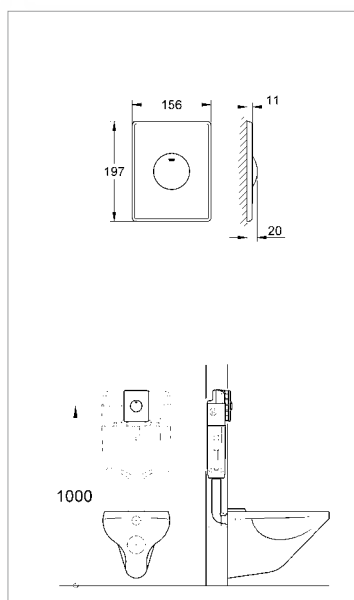
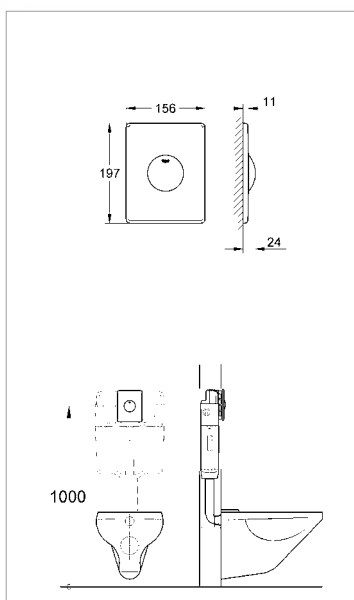
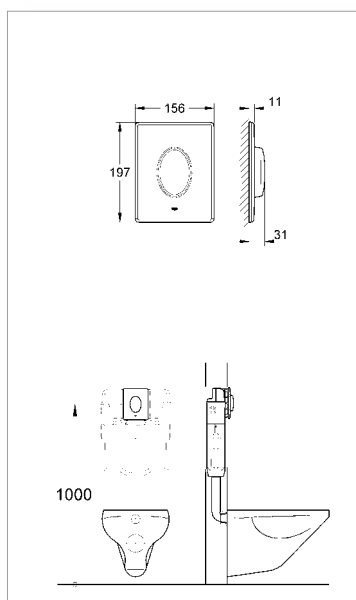
GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoButton
EasyConnect

GROHE WC ACTUATIONS FOR SINGLE FLUSH AND START/STOP



38 564 Skate Air Wall plate

for single flush actuation, vertical installation, for pneumatic discharge valve, made of ABS

Surfaces:
000 chrome,
P00 mat chrome,
SH0 alpine white

38 565 Skate Air
ditto 38 564, but
horizontal installation



Certified actuation for less able people

Skate Air Single Flush is certified by the german GGT-seal "good". The push button which juts out 20 mm is particularly qualified for people with limited freedom of movement.

38 573 Skate Wall plate

for single flush actuation, vertical and horizontal installation, for pneumatic discharge valve, made of ABS

Surfaces:
000 chrome,
P00 mat chrome,
SH0 alpine white

38 672 SD0 Skate Wall plate, stainless steel

vertical installation, push button actuation, for pneumatic discharge valve, plastic fixing frame, hidden fixing screws

38 574 Surf Wall plate

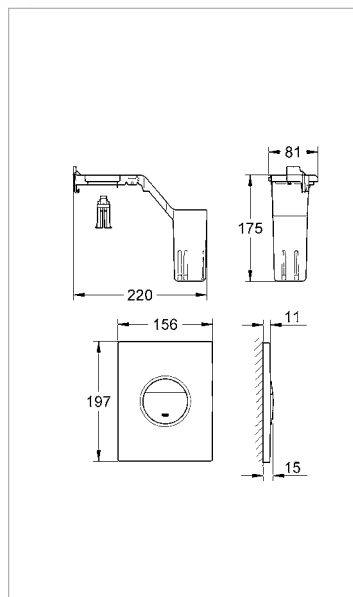
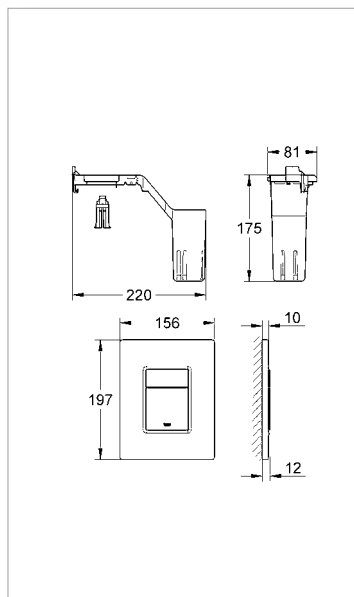
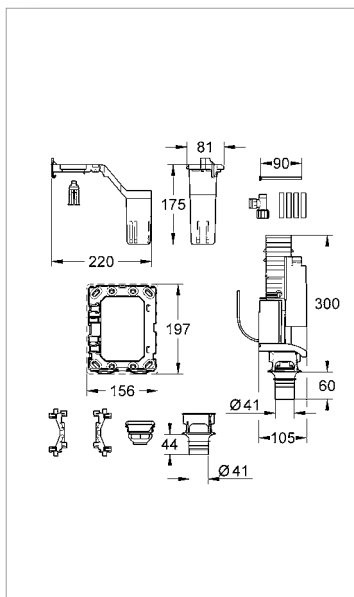
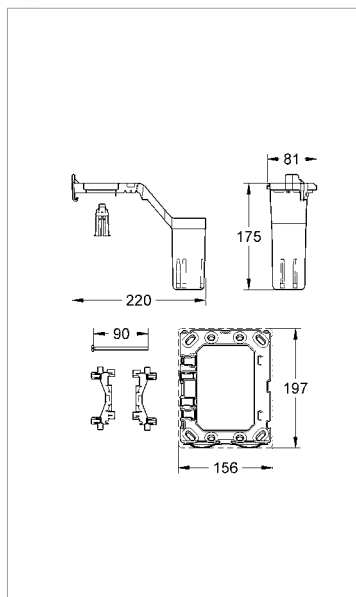
for single flush actuation, vertical and horizontal installation, for pneumatic discharge valve, made of ABS

Surfaces:
000 chrome,
P00 mat chrome,
SH0 alpine white

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE FRESH

CLEAN FRESHNESS AT THE PUSH OF A BUTTON



38 796 000

GROHE Fresh retro-fit set
for GROHE flushing cisterns with
AV1 and small inspection shaft,
fixing frame with box for support of
aromatic tabs

38 797 000

GROHE Fresh retro-fit set
with AV1, for GROHE flushing
cisterns with small inspection shaft,
fixing frame with box for support of
aromatic tabs

38 805

Skate Cosmopolitan Set Fresh

Wall plate Skate Cosmopolitan,
with GROHE Fresh fixing frame
with box for support of aromatic
tabs

Surfaces:

000 chrome,

SH0 alpine white

38 799

Nova Cosmopolitan Set Fresh

Wall plate Nova Cosmopolitan, with
GROHE Fresh fixing frame with box
for support of aromatic tabs

Surfaces:

000 chrome,

SH0 alpine white

37 798

Skate Air Set Fresh

ditto 38 799, but with wall plate
Skate Air

Surfaces:

000 chrome,

SH0 alpine white



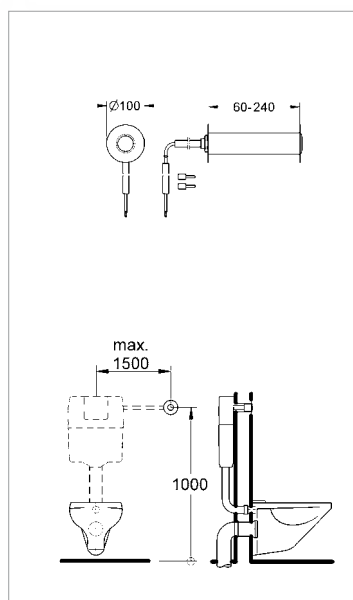
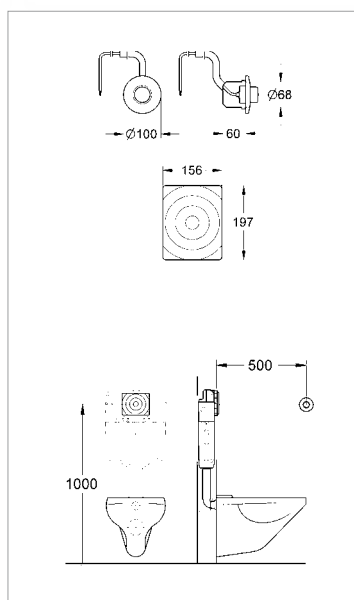
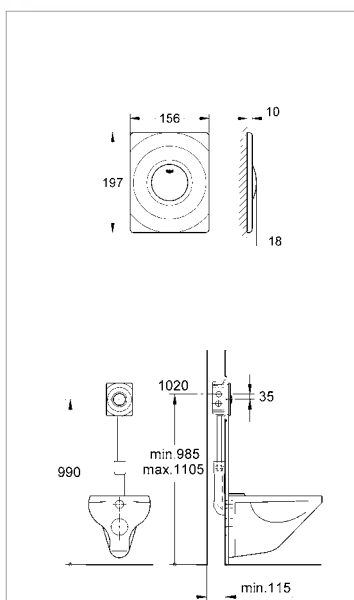
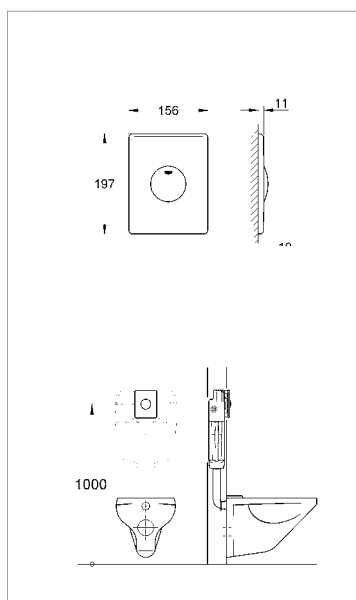
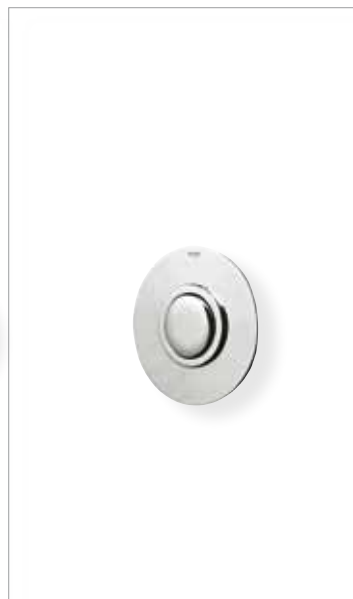
GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoButton
EasyConnect

GROHE WC ACTUATIONS FOR FLUSHING CISTERNS AND FLUSH VALVES



37 547

Skate
Wall plate

vertical installation, 156 x 197 mm,
push button actuation, made of
ABS

Surfaces:

000 chrome,
P00 mat chrome,
SH0 alpine white

37 063

Surf
Wall plate

vertical installation, 156 x 197 mm,
push button actuation, made of
ABS

Surfaces:

000 chrome,
SH0 alpine white

37 059 000

Pneumatic actuation

remote manual actuation, push
button actuation with escutcheon
ø 100 mm, vertical and horizontal
installation, wall plate Surf 156 x
197 mm, pneumatic hose 1.50 m,
chrome

37 060 000

ditto 37 059, but without wall plate

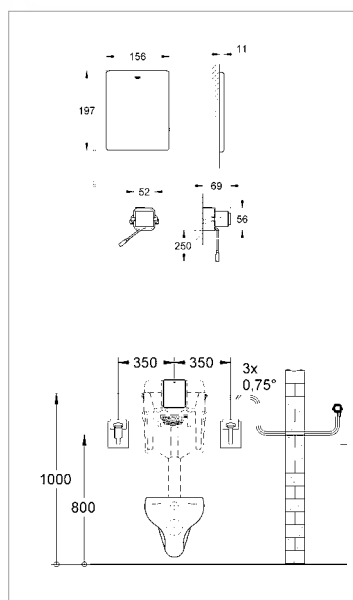
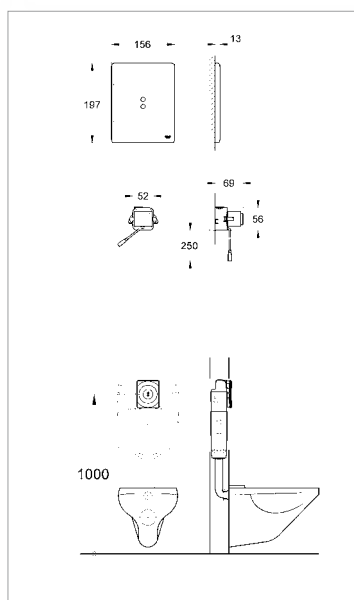
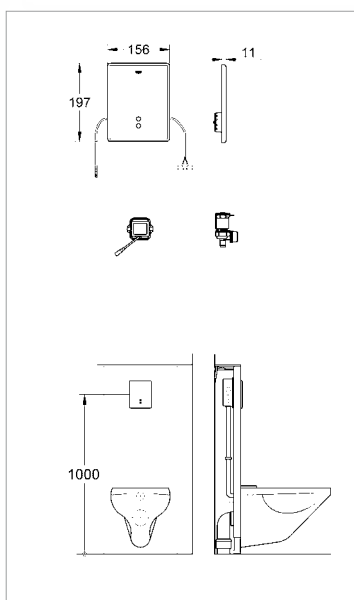
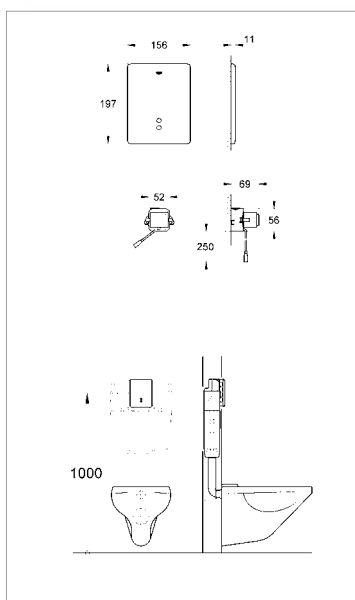
43 977 000

Pneumatic actuation

remote manual actuation for
institutional requirements, push
button actuation with escutcheon
ø 100 mm, chrome, for walls of
80 - 240 mm thickness, actuation
stop, pneumatic hose 1.50 m,
without wall plate

Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE WC ACTUATIONS ELECTRONIC FOR FLUSHING CISTERNS/FLUSH VALVES



38 698 SD0 Tectron Skate

for flushing cistern GD2, concealed installation, infra-red control, 230 V AC, servo motor, wall plate stainless steel

38 393 SD0 Tectron Skate

for WC flush valve, concealed installation, infra-red control, 230 V AC, servo motor, wall plate stainless steel

38 699 000 Tectron Surf

for flushing cistern GD2, concealed installation, infra-red control, 230 V AC, servo motor, wall plate chrome

38 759 SD0 Radio electronic

for WC flushing cistern, concealed installation, wall plate 156 x 197 mm, stainless steel, for support rails of HEWI, Keuco, Normbau

38 758 000 Transmitter

868,4 MHz, for support rails of HEWI, BLANCO, FRANKE

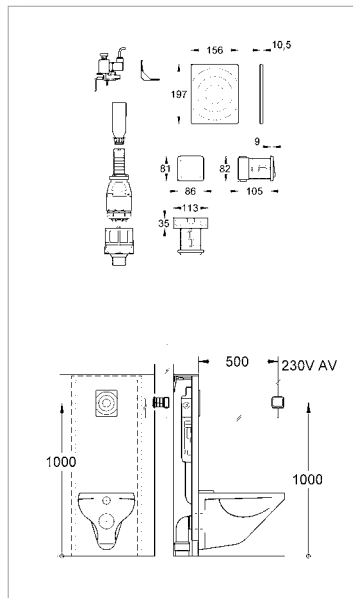
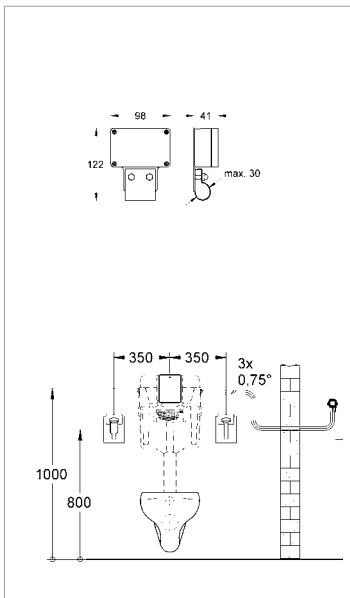


GROHE StarLight®



GROHE EcoJoy™

GROHE features:
EcoButton
EasyConnect



38 758 000

Transmitter

868,4 MHz, for support rails of HEWI, BLANCO, FRANKE

38 087 000

Actuation button

concealed installation, wall plate 156 x 197 mm, chrome, surface actuation with transformer, stainless steel, 230 V AC, 2 m connecting cable










































Note:

To be used with folding supporting handle, electric, max. voltage 30 V, power max. 2 A




























Always take into consideration with concealed installation the mounting advantages offered by the on-the-wall installation systems Rapid and Uniset.

GROHE COSMOPOLITAN DESIGN















































WC actuations

GROHE						
Ondus®	<div></div> <div></div> <div></div> <div></div> <div></div>					
	velvet blackchromemoon whiteDigitecture Light/ velvet blackDigitecture Light/ moon white					
Nova						
Light	<div></div>					
	chrome					
Cosmopolitan						
Print	<div></div> <div></div> <div></div> <div></div> <div></div>					
	black/ chrome	moon white/ eco green	white/chrome	black graphics	black graphics	
Cosmopolitan	<div></div> <div></div> <div></div>					
	chrome	matt chrome	alpine white			
Skate						
Cosmopolitan Leather, quilted	<div></div> <div></div> <div></div> <div></div>					
	taninred	black	cashmere beige	white		
Cosmopolitan Leather	<div></div> <div></div> <div></div> <div></div>					
	taninred	black	cashmere beige	white		
Cosmopolitan Glass	<div></div> <div></div> <div></div> <div></div>					
	high glossy velvet black	high glossy moon white	high glossy chrome/titanium	chrome/ daVinci satin		
Cosmopolitan Wood	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>					
	natural oak/ matt chrome	american walnut/ chrome	macassar/ chrome	bamboo/ matt chrome	american cherry/ chrome	ash olive/ matt chrome
Cosmopolitan	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>					
	chrome	matt chrome	alpine white	titanium/ anti-fingerprint	stainless steel	black graphics print
Arena						
Cosmopolitan	<div></div> <div></div> <div></div>					
	chrome	matt chrome	alpine white			

Urinal actuation

			
chrome			
			
chrome	matt chrome	alpine white	
			
chrome	matt chrome	alpine white	
			
chrome	matt chrome	alpine white	
			
chrome	matt chrome	alpine white	
			
high glossy velvet black	high glossy moon white	high glossy chrome/titanium	chrome/daVinci satin
			
chrome	matt chrome	alpine white	
			
chrome	matt chrome	alpine white	stainless steel
			
chrome	matt chrome	alpine white	

Possible combinations

				
GROHE Ondus®				
				
Veris	Allure	Atrio	Lineare	Essence
				
Allure	Atrio	Lineare	Essence	Concetto
				
Allure	Atrio	Tenso	Essence	Concetto
				
Allure	Atrio	Tenso	Quadra	Lineare
				
Allure	Atrio	Tenso	Quadra	Lineare
				
Veris	Quadra	Allure	Atrio	Lineare
				
Allure	Atrio	Quadra	Lineare	Eurosmart Cosmopolitan
				
Allure	Atrio	Quadra	Lineare	Eurosmart Cosmopolitan
				
Veris	Allure	Atrio	Essence	Eurosmart Cosmopolitan

GROHE CONTEMPORARY DESIGN

WC actuations

Skate Air

Single Flush



chrome



matt chrome



alpine white

Dual Flush



chrome



matt chrome



alpine white

Skate

Single Flush



chrome



matt chrome



alpine white



stainless steel

Dual Flush



chrome



matt chrome



alpine white

Electronic
actuation



stainless steel,
230 V

GROHE AUTHENTIC DESIGN

Surf

Single Flush



chrome



matt chrome



alpine white

Dual Flush



chrome



matt chrome



alpine white

Electronic
actuation

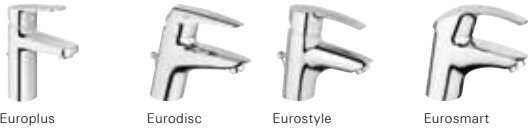
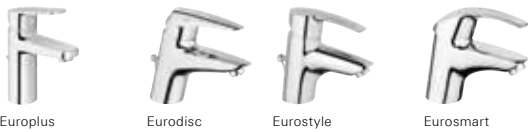


stainless steel,
230 V

Urinal actuation



Possible combinations



GROHE WC ACTUATIONS SELECTION GUIDE





























[illegible]












Manual actuation Dual flush and start & stop



38 915 vertical and horizontal installation	38 766 vertical and horizontal installation	38 809 vertical and horizontal installation	38 847 vertical and horizontal installation	38 847 XG0 vertical and horizontal installation	38 869 vertical and horizontal installation	38 765 vertical and horizontal installation	38 844 vertical installation 38 858 horizontal installation	38 505 vertical installation 38 506 horizontal installation	38 861 vertical and horizontal installation	38 862 vertical and horizontal installation 38 862 SD0 vertical and horizontal installation
	38 766 horizontal installation	38 809 horizontal installation	38 847 horizontal installation	38 847 XG0 horizontal installation	38 869 horizontal installation	38 765 horizontal installation	38 858 horizontal installation	38 506 horizontal installation	38 861 horizontal installation	38 862 horizontal installation

GROHE WC AND URINAL ACTUATIONS SELECTION GUIDE

WC	Manual actuation start & stop				Infra-red electronic	Radio electronic	Pneumatic actuation	Push button	
									
	  								
   38 528 001 38 643 001 38 661 000	38 564 vertical installation 38 565 horizontal installation	38 672 SD0 vertical installation	38 573 vertical and horizontal installation	38 574 vertical and horizontal installation	38 699	38 698 SD0	38 759 SD0 38 758	37 059 37 060 push button without wall plate	38 087
   38 525 001 38 415 001 38 422 000	38 565 horizontal installation		38 573 horizontal installation	38 574 horizontal installation				37 059 37 060 push button without wall plate	
   38 519 001 37 591 000 37 153 000		38 445 SD0 vertical installation	37 547 vertical installation	37 063 vertical installation		38 393 SD0			

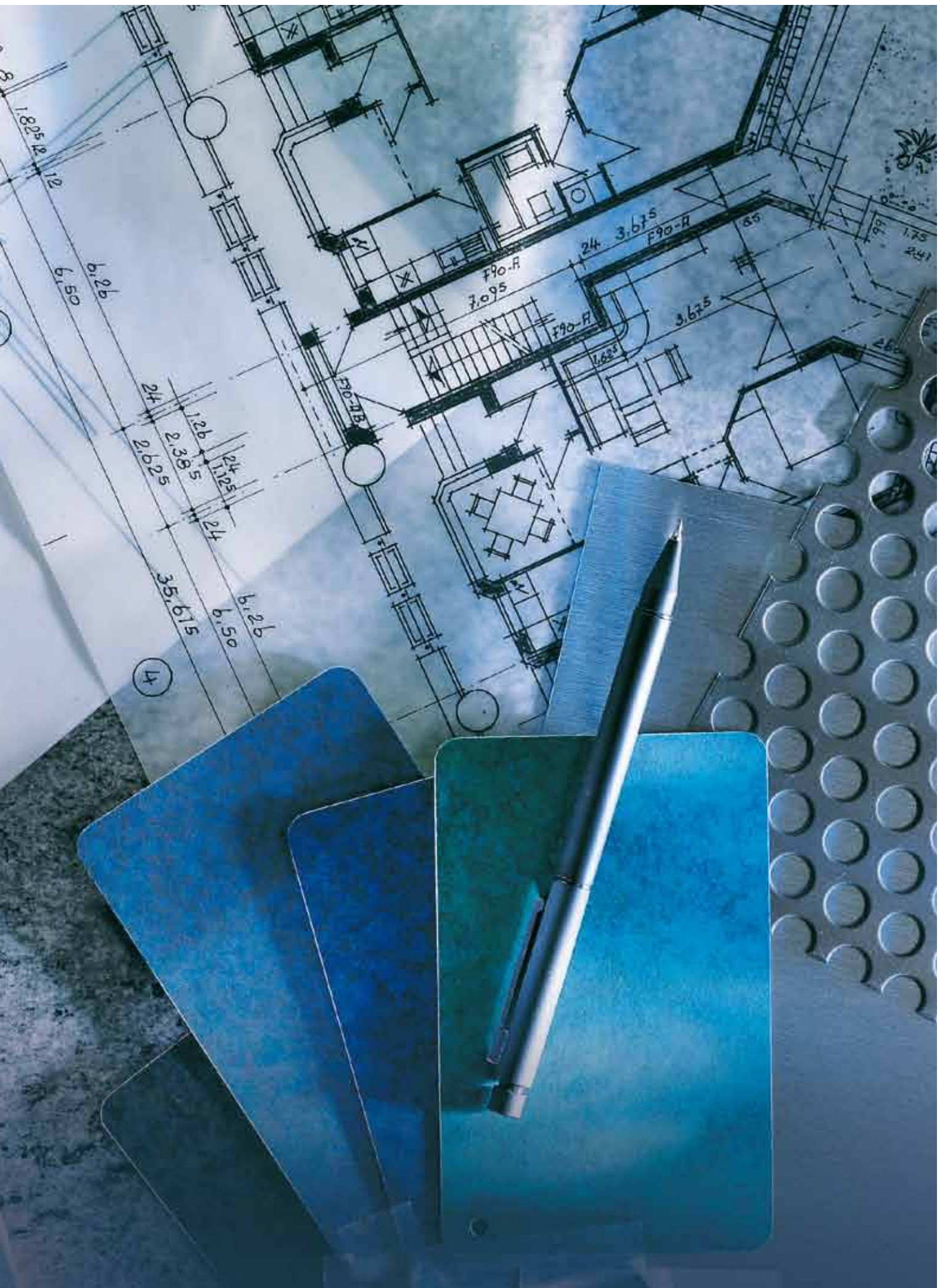
Urinal	Manual actuation					Infra-red electronic		Radar electronic
								
 38 511 001 38 387 000 Radar electronic								38 386 set for final installation 37 002 000 tiling set
 38 787 000 GROHE Rapido UMB manual / 6 V	38 846	38 857	38 784	38 804	38 808	37 337	37 324	
 38 786 001 37 785 000 37 338 000 manual / 230 V / 6 V	38 846	38 857	38 784	38 804	38 808	37 336/ 37 337	37 321/ 37 324	

The background of the advertisement features a technical architectural drawing of a sanitary facility, likely a public restroom, showing floor plans, fixtures, and dimensions. A silver metal paperclip is positioned diagonally across the upper portion of the drawing. In the lower foreground, a blue, granular-textured surface, possibly a sample of a GROHE product, is visible. The title 'GROHE PLANNING SANITARY FACILITIES' is overlaid in large, white, sans-serif capital letters.

GROHE PLANNING SANITARY FACILITIES

No matter whether they are used in public restrooms, bathrooms in multi-storey houses or private homes, GROHE products can be used flexibly and are easy and quick to install. However, the basis for the optimum solution is sound planning, including interesting special solutions for the private bathroom - such as free-standing installation of sanitary objects or space-saving corner solutions - as well as the consideration of required distances between the objects and room to move in public restrooms.

Thanks to the GROHE Whisper® technology, noise control planning is easy, too. An expertise by the renowned Fraunhofer Institut confirms the excellent noise control properties of the Rapid SL and Uniset elements.



GROHE PLANNING OPTIMUM SOLUTION WITH GROHE INSTALLATION AND FLUSHING SYSTEMS

Under practice-oriented conditions, the Fraunhofer Institut für Bauphysik has carried out noise measurements with Rapid and Uniset. The outstanding test results for all of the products fulfil the requirements of DIN 4109 and very nearly completely all of the requirements of DIN 4109-10.

- Increased noise protection requirements of 27 dB(A)
- comfort noise protection level requirements of 24 dB(A)

have been established in that section which deviate from standard noise protection levels of 30 dB(A).

Testing constructions Rapid SL in lightweight stud wall partitions, Rapid SL on-the-wall installation and Uniset wall installation had been proved.





GROHE Whisper®

means optimum noise protection for adjacent rooms. Thanks to low-noise fittings and decoupled pipe mountings, no noise is transmitted to the solid walls of the building.











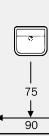








GROHE PLANNING

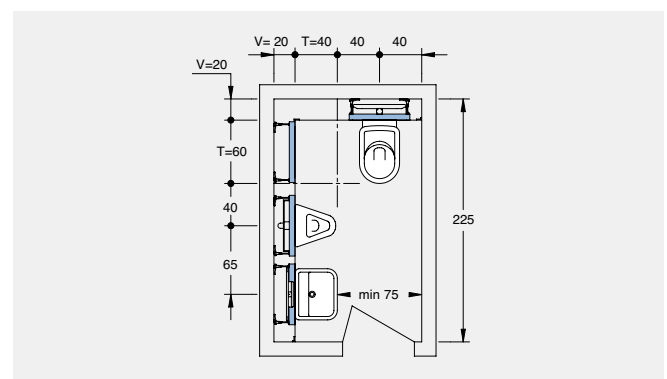
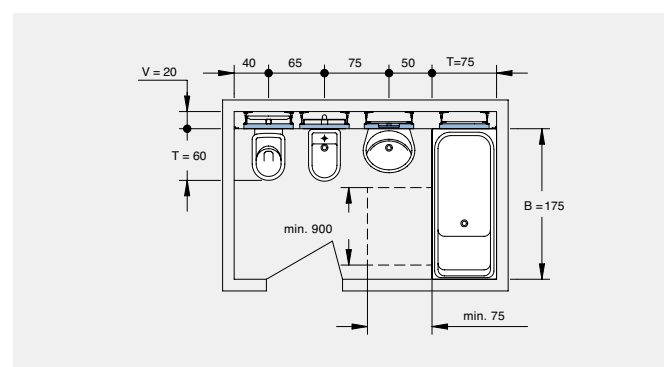
INSTALLATION SYSTEMS - AREAS OF UTILISATION, FIXTURE CLEARANCES AND DIMENSIONS

Areas of utilisation for the installation systems

	Masonry < 80 mm	Masonry > 80 mm	LSWP, single 75x50x 0.6mm	LSWP, double 50x50x 0.6mm	Free- standing*)	Parquetry >19 mm	Concrete	Floor pavement >50 mm
Rapid SL WC/bidet load feet	+	+	+	+	+	-	+	-
Rapid SL WC/bidet	-	+	+	+	-	+	+	+
Rapid SL wash basin/urinal	-	+	+	+	+	+	+	+
Uniset	-	+	-	-	+	+	+	+

*) Free-standing walls shall only be mounted on concrete floors. LSWP = lightweight studded wall partitions

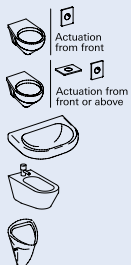
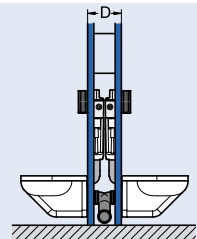
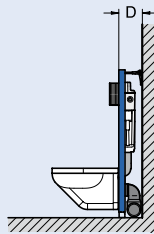
Fixture dimensions							
							
1. Average fixture dimensions	W: 60 D: 55	W: 50 D: 40	W: 40 D: 60	W: 40 D: 40	W: 40 D: 60	W: 80 D: 80	W: 175 D: 75
2. Room for movement for using the fixtures							
3. Min. fixture clearances	80	-	70	70	75	-	-
a. Axis clearances	75	-	65	65	70	-	-
	70	65	60	60	65	-	-
	70	65	60	60	65	-	-
	75	70	65	65	-	-	-
b. Shower bath tub	50	45	40	40	45	-	-
c. Side wall	50	45	40	40	45	-	-
c. Side walls	50	45	45	40	45	-	-



Structural depths

* = Horizontal wastewater connection - dimensions stated without cladding

¹⁾ = Vertical waste - water connection



	DN 50	DN 80	DN 100	DN 50	DN 80	DN 100
Actuation from front	-	140 ¹⁾ /170*	165 ¹⁾ /180*	-	265	265
Actuation from front or above	-	175	175/180*	-	-	-
Side clearance	130	170*	180*	170	220	230
Support element	130	170*	180*	265	265	265
Cladding	130	170*	180*	240	265	265

Minimum clearance dimensions for Rapid SL

Wall clearance

The structural depth of **Rapid SL** is adjustable. The object with the most wall clearance determines the shared wall clearance.

Side clearance

If the distance between the elements or between the element and the side wall

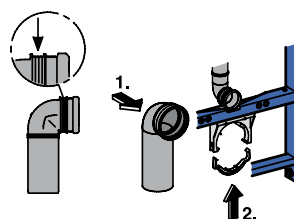
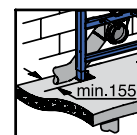
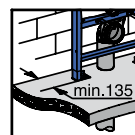
- is more than 600 mm by cladding on-site with gypsum plaster boards/gypsum fibre boards
- is more than 450 mm by Rapid SL claddings a support element has to be added.

Support element

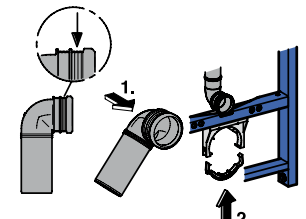
for distances of 600 - 1200 mm.

Outlet bend with depth adjustment

Against the run of the wastewater pipe the DN 80 outlet bend can be installed in 2 positions of depth in the clip.



Back position for vertical connection of the wastewater pipe.



Front position for horizontal connection of the wastewater pipe.

GROHE PLANNING

RAPID SL - BASIC INTRODUCTION TO CALCULATING THE MATERIALS

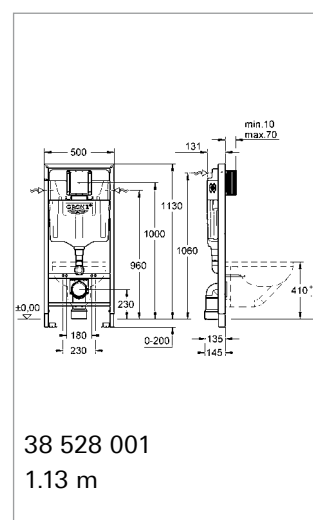
Guideline for determining the materials required for a partial-height on-the-wall installation

1. Selection of the elements.
2. Supporting elements: What are the distances between the elements and to the next wall connection?
3. Wall connection: What type of wall connection - on both sides, on one side or without any connection?

1. Selection of elements

To determine the material required, the elements are deemed to have a width of 500 mm.

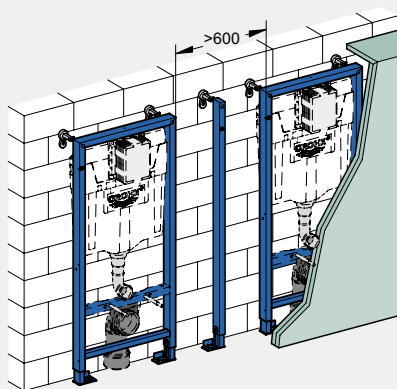
	1.13 m	1.00 m	0.82 m
WC	38 528 001	38 525 001	38 526 000
Urinal	38 786 001 (manual + infra-red) 38 511 001 (Radar)		
Wash basin	38 554 001 (for single hole installation) 38 557 001 (ditto, but without fitting connections)	38 541 000	
Bidet	38 553 001	38 545 000	38 543 000



2. Supporting elements

In case of distances of more than

- 600 mm with gypsum board/gypsum fibre board cladding,
 - 450 mm with Rapid SL claddings
- a supporting element has to be inserted between the elements or between the element and the side wall.



38 549 001	38 550 000
1.13/1.30 m	1.00/0.82 m

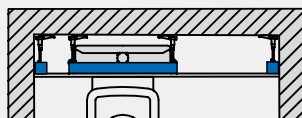
3. Wall connection with wall brackets and supporting elements

To fix claddings on the wall and obtain corners, wall brackets and supporting elements are used.

1. Wall connection on both sides:
2 support elements



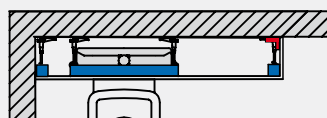
1.



2. One-sided wall connection:
2 support elements +
1 wall bracket



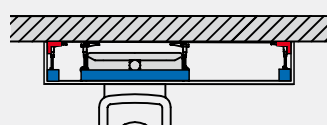
2.



3. Without wall connection:
2 support elements +
2 wall brackets



3.

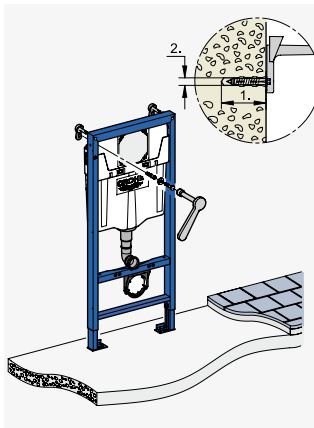


37 220 001	38 549 001
1.13/1.00/ 0.82 m	1.13/1.30 m
support wall bracket	support element

GROHE PLANNING

RAPID SL - PLANNING NOTES

ATTACHMENT

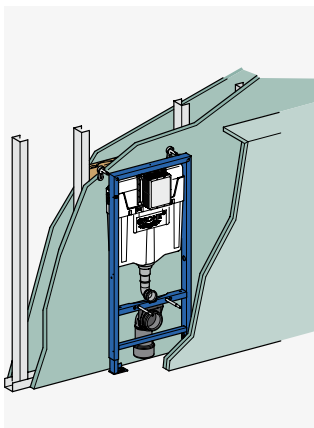


On-the-wall installation in front of masonry.

Rapid SL can be secured to all sufficiently strong masonry.

- The screws and dowels supplied can be used in solid masonry.
- Suitable special dowels must be used in walls made from materials with lower compressive strength.

1. Depth of drilled hole = Dowel length + 10 mm
2. Drill diameter = Dowel diameter



On-the-wall installation in front of lightweight stud wall partitions.

Rapid SL can also be installed in front of lightweight stud wall partitions.

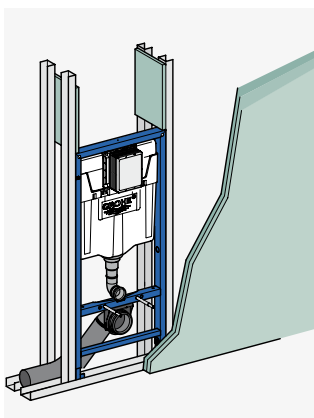
Minimum dimensions for lightweight stud wall partitions made of metal

- Single stud wall partition CW profiles 75 x 50 x 0.6 mm
The profiles positioned behind the respective WC and bidet elements must be designed as UA-profiles 75 x 40 x 2.0 mm.
- Double stud wall partition with fishplating, e.g. Knauf W116 CW-profiles 50 x 50 x 0.6 mm.

Minimum dimensions for lightweight stud wall partitions made of wood

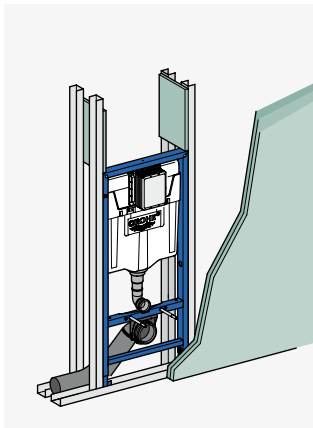
- Single stud wall partition 80 x 48 mm
- Cladding: 2 x 12.5 mm gypsum board or 1 x 12.5 mm gypsum fibre board.

The elements are preferably secured to a water-resistant plywood board. The board is fitted between two profiles so that it is flush with the front edge of the profiles.



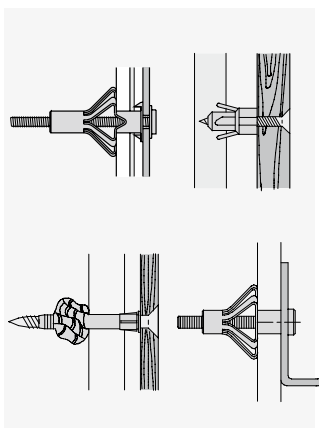
Installation in room-high lightweight stud wall partitions made of metal or wood.

Rapid SL can be installed in lightweight stud wall partitions made of metal to DIN 18183 or the wall can be constructed in accordance with the working data sheets for gypsum plaster board installation wall 50 (Rigips Installationswand 50) or Knauf W116. Accurately fitting element feet for UW-50 and UW-75 profiles ensure that the elements are easily positioned on the front edge of the stud wall partition. They are secured at the sides to metal stud wall partitions with self-tapping screws. Timber uprights - min. dimensions 80 x 48 mm - are required for installation in wooden stud wall partitions. The elements are secured with four wood screws in wooden stud wall partitions.



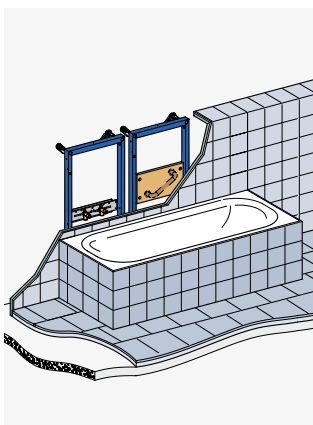
Attachment to the floor.

Rapid SL can be installed on all finished or unfinished load-bearing floors. The maximum range for adjustment equals 200 mm.



Fixing equipment fixtures.

Equipment fixtures can easily be fixed to tiled gypsum plaster board walls. Light and medium loads, such as towel holders, toilet roll holders, mirror cabinets, etc. can be secured directly to the wall using the standard fixing material (KS universal dowels) or with metal cavity dowels.



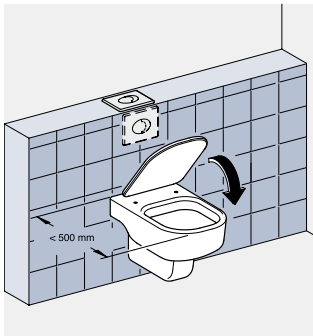
Heavy loads such as bath tub handles, bathroom furniture etc. are secured on a water resistant plywood, 19 mm thick.

Support rails for the disabled are secured with support plate 38 559 001.

GROHE PLANNING

INSTALLATION SYSTEMS - RAPID SL

PLANNING NOTES, SPECIAL AREAS OF USE

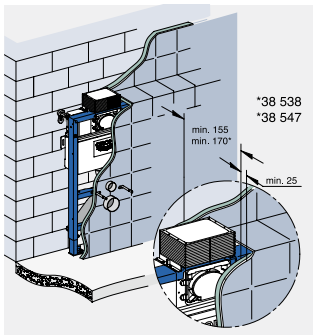


Element with flushing cistern, 0.82 m installation height.

WC basin with short projection: Depending on the type of wall WC used, the open WC cover may rest against the actuating plate. The possibility of the lid falling down cannot be excluded in the case of WC bowls with a reach of less than 50 cm, such as

V&B	Viala 765310, Viala 765210
Keramag	Renova-Comprimo 204550, Joly 203060
Duravit	Duraplus 022809.00

Actuation from above must always be installed in such cases.



Structural depths.

For operation from the front, there are no limitations.

For operation from the top, minimum installation depths have to be considered:

155 mm for Rapid SL,

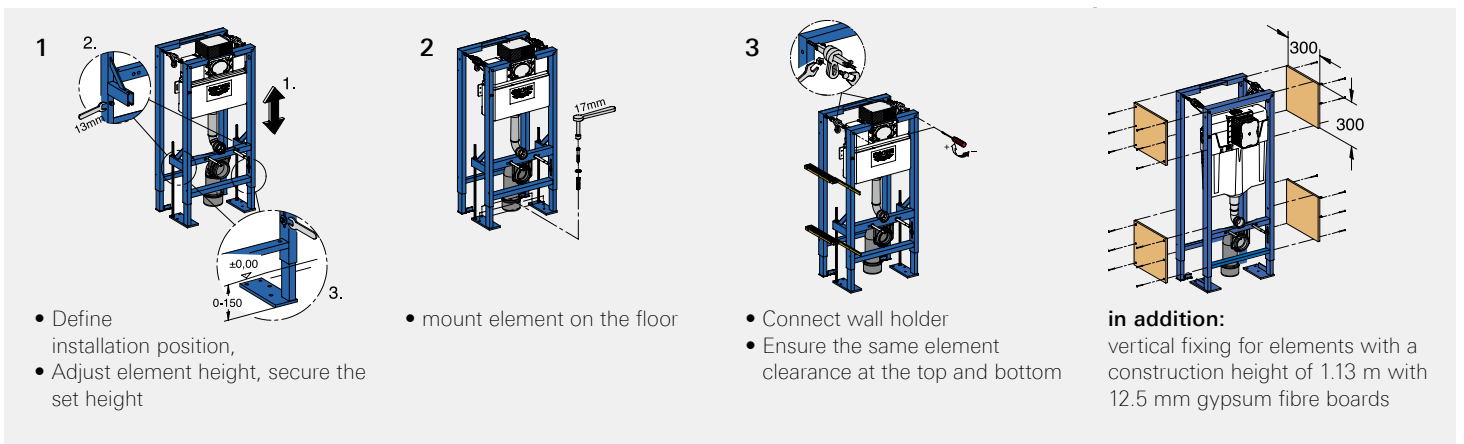
170 mm for Uniset.

Use of the plates.

In general, all plates are suitable for use from the front and from the top.

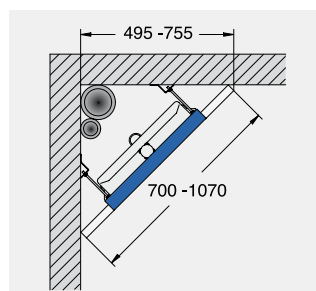
Free-standing installation.

Particularly large bathrooms can be elegantly designed with optimum use of the space in the centre of the room when using a free-standing installation. Free-standing WC elements can only be installed on the unfinished (concrete) floor.

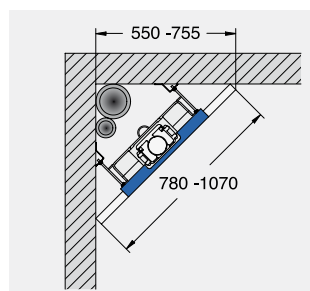


CORNER MOUNTING

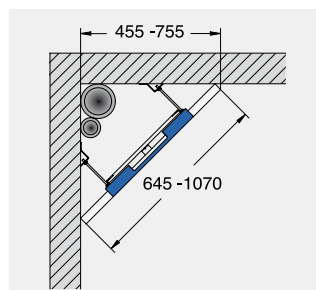
Corner mounting set - all Rapid SL elements can be installed in corners with the corner mounting set 38 562 001.



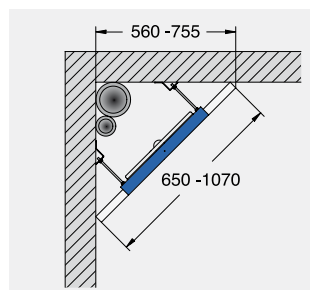
WC element, with flushing cistern GD 2, 1.13 m



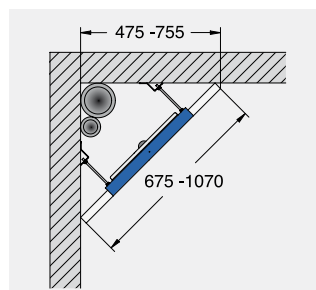
WC element, with flushing cistern 0.82 m or 1.00 m



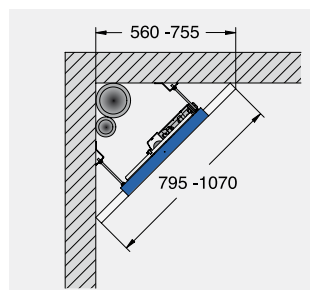
Wash basin element, 1.13 m



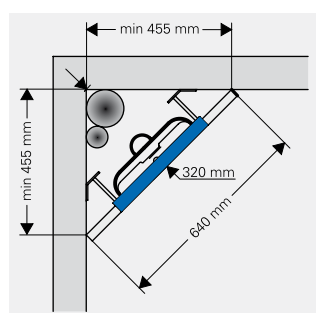
Urinal element, with manually actuated urinal flush valve 37 338 000, 1.13 m



Urinal element for Joly/Visit, with manually actuated urinal flush valve 37 338 000, 1.13 m



Urinal element, with infra-red electronic, 1.13 m



Corner element for WC

The corner element for WC permits optimum use of the space available.

Particularly in small bathrooms or toilets, it opens up completely new possibilities for design:

- Actuation from front - the top can be used for other purposes
- Space for supply and disposal pipes
- For floor constructions up to 200 mm
- Installation height 1.00 m

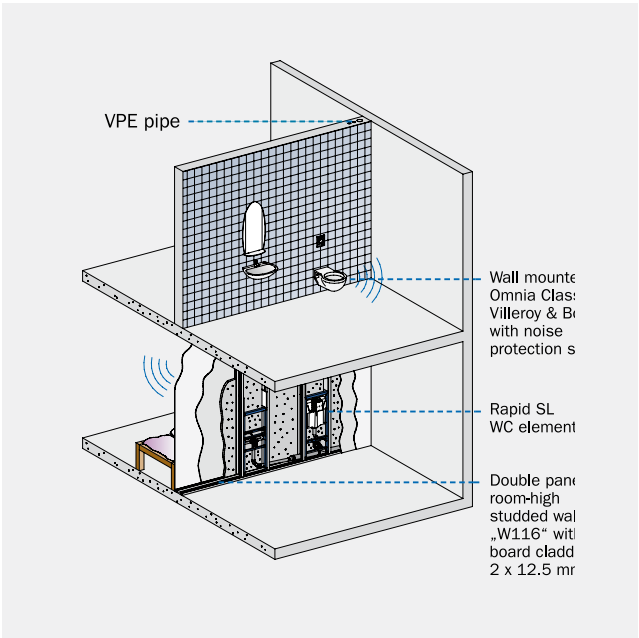
GROHE PLANNING

INSTALLATION SYSTEMS - STANDARD NORMS AND CERTIFICATIONS FOR NOISE PROTECTION

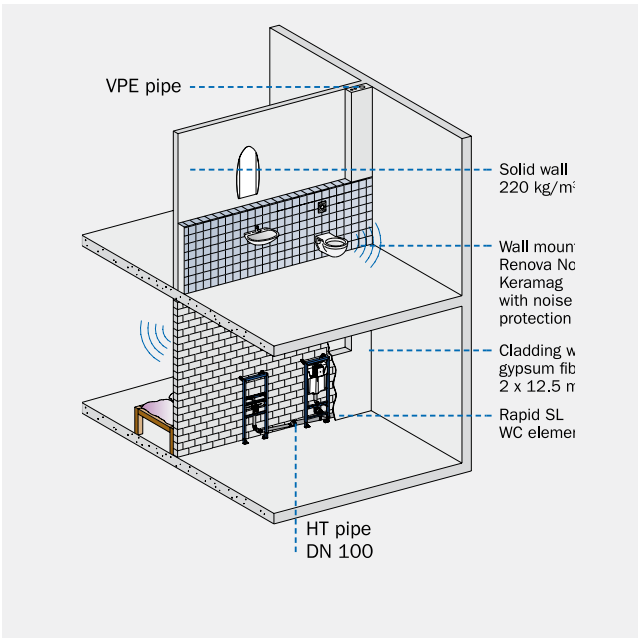
Under practice-oriented conditions, the Fraunhofer Institut für Bauphysik has carried out noise measurements with Rapid and Uniset. The outstanding test results for all of the products fulfil the requirements of DIN 4109 and very nearly completely all of the requirements of DIN 4109-10.

- Increased noise protection requirements of 27 dB(A)
 - comfort noise protection level requirements of 24 dB(A)
- have been established in that section which deviate from standard noise protection levels of 30 dB(A).

Testing construction for Rapid SL in lightweight studded wall partitions				
Test results obtained by the Fraunhofer Institut für Bauphysik				
Rapid SL	Test result	Requirements		
with flushing cistern, 6–9 l	Installation noise level in other living areas	DIN 4109	DIN 4109-10	
	L _{in} in dB(A)	Stage I	Stage II	Stage III
	14 dB(A)	<30	<27 ¹⁾	<24 ²⁾
1) 27 dB(A) = increased noise protection 2) 24 dB(A) = comfort noise protection				



Testing construction for Rapid SL on-the-wall installation				
Test results obtained by the Fraunhofer Institut für Bauphysik				
Rapid SL	Test result	Requirements		
with flushing cistern, 6–9 l	Installation noise level in other living areas	DIN 4109	DIN 4109-10	
	L _{in} in dB(A)	Stage I	Stage II	Stage III
	21 dB(A)	<30	<27 ¹⁾	<24 ²⁾
1) 27 dB(A) = increased noise protection 2) 24 dB(A) = comfort noise protection				



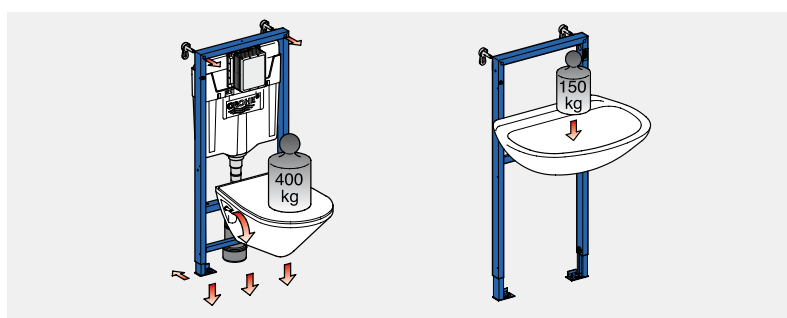
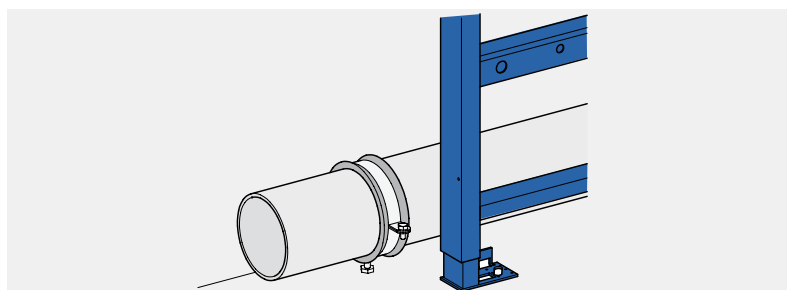
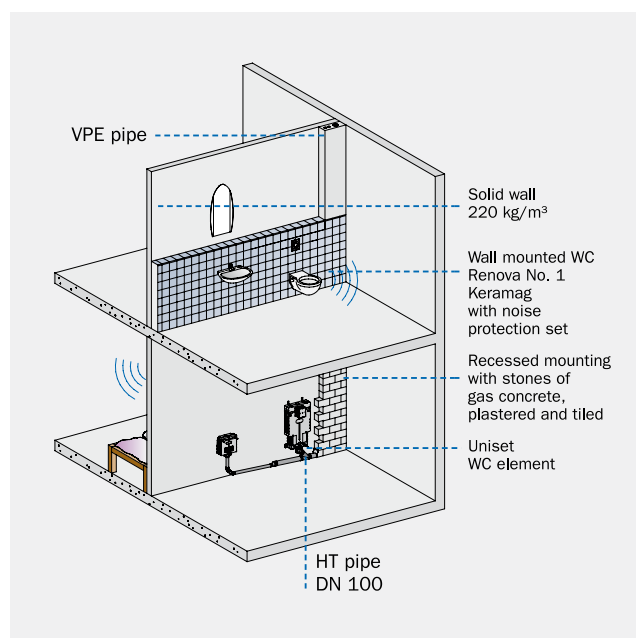
Testing construction for Uniset wall installation

Test results obtained by the Fraunhofer Institut für Bauphysik

Uniset for WC	Test result	Requirements		
with flushing cistern, 6–9 l	Installation noise level in other living areas	DIN 4109	DIN 4109-10	
Dual flush	L_{in} in dB(A)	Stage I	Stage II	Stage III
	16 dB(A)	<30	<27 ¹⁾	<24 ²⁾

1) 27 dB(A) = increased noise protection

2) 24 dB(A) = comfort noise protection



On site measures for noise reduction.

- Design floor plans which are favourable in terms of construction acoustics.
- Inlet and drainage pipes can be placed in the element areas without contact with the solidium. This makes elaborate pipe isolation measures superfluous.
- Utilise sets for noise protection with WC and bidet.
- The cladding has a sound-absorbent effect in the user area.

Safety – because it has been tested.

Rapid SL is certified by the German technical control board (TÜV), you can rely on its

- safe installation
- practical operating instructions and
- high load capacity

The Rapid WC element can still bear loads of up to 400 kg even when adjusted by 200 mm in height. Compare that with the results for other products. By the way: the wash basin element can bear loads of up to 150 kg.

GROHE PLANNING INSTALLATION SYSTEMS BARRIER-FREE LIVING

Barrier-free living according to DIN 18025 part 1+2 and DIN 18024 part 2.

Bathrooms designed to meet the needs of senior citizens and handicapped people are becoming increasingly important as people live longer. In addition to space, such bathrooms need products meeting the specific requirements.

For example, WC flushing systems which are very easy to install and operate thanks to protruding or large buttons.

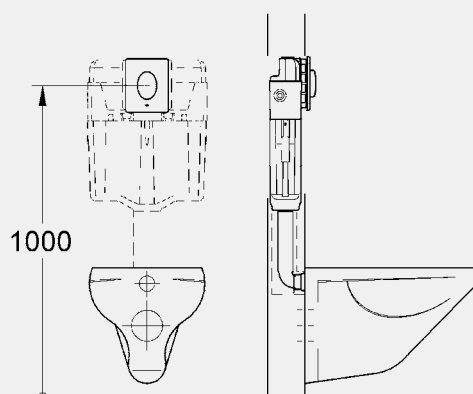
The use of modern pneumatics provides for highly convenient functionality.





Certified actuation for less able people:

Skate Air Single Flush is certified by the German GGT- seal "good".
The push button which juts out 20 mm is particularly qualified for people with limited freedom of movement.



Height for handicapped WC 460 mm

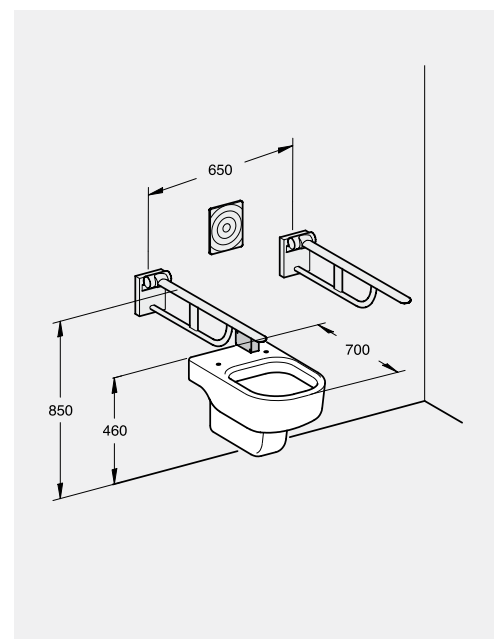
GROHE PLANNING INSTALLATION SYSTEMS BARRIER-FREE LIVING

Special requirements have to be considered in the planning of sanitary facilities for handicapped persons.

DIN 18025 part 1 applies to the planning, construction and equipment of wheelchair-adapted, new rented and cooperative flats and homes.

DIN 18025 part 2 applies to the planning, construction and equipment of barrier-free flats.

DIN 18024-2 applies to the planning, construction and equipment of publicly accessible buildings or parts of buildings as well as workplaces.

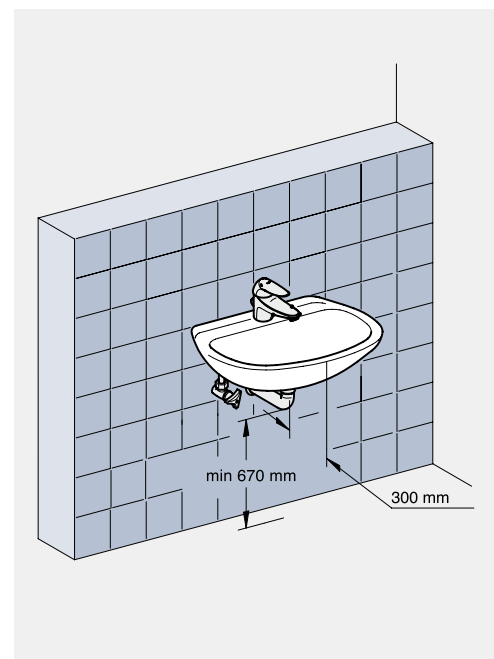


DIN norms 18024 and 18025 are planned to be integrated into one DIN 18030. A draft of DIN 18030 is already available, but it has not come into force yet.

WC area:

The new standard DIN 18030 specifies an installed height of 480 mm incl. WC seat. A reach of 700 mm is required so that handicapped people can transfer without difficulty from a wheelchair to the WC. Support rails must be installed at a distance of 650 mm on both sides if necessary. The support rails must be designed as folding supporting rails on the transfer sides.

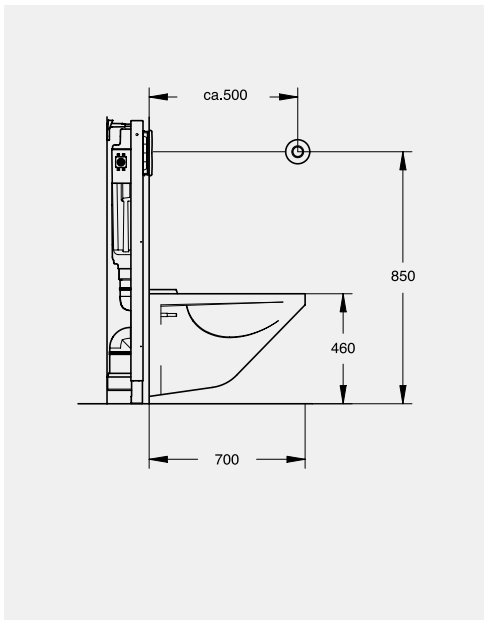
DIN 18024, part 2 recommends a distance of 700 mm between the support rails. The Rapid SL WC element 38 675 001 is designed for an installed WC height of 460 mm and for WC bowls with a reach of 700 mm.



Wash basin area:

Wash basins for use by handicapped people should be high enough to allow a wheelchair underneath. This means that a legroom 30 cm deep and at least 670 mm high is necessary. These requirements are ideally met by the wash basin element No. 38 625 001 with concealed siphon. The element additionally includes a replaceable holder permitting use of either a wall mixer or a pillar mixer.

According to DIN 18024, part 2 and DIN 18030 (draft), the top edge of the wash basin may be installed to a maximum height of 800 mm.



WC actuations:

The actuation (e.g. WC flushing cistern/valve) must be located in such a way that it can be reached by a person in a wheelchair. The actuation must be installed at a height of 85 cm. The distance to the side wall or to any installations must be at least 50 cm.

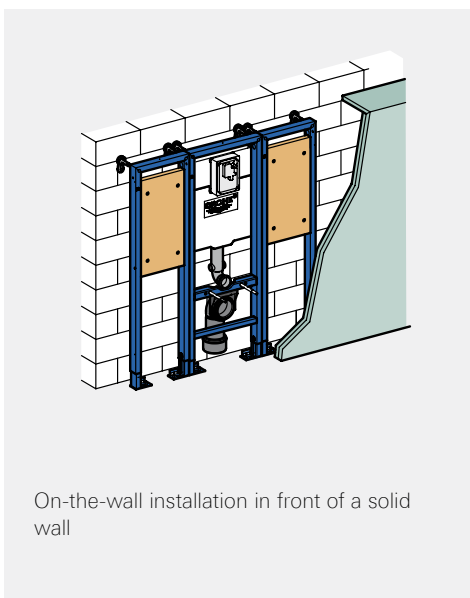
It must be possible to operate the flushing system from both sides by arm or hand without the user having to change the seating position (DIN 18025, part 2, DIN 18030 (draft)).

All operating devices must enable safe and easy access.

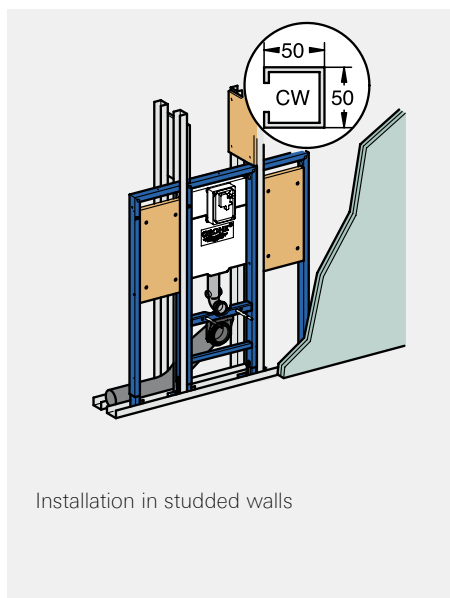
Recommendation: flushing cistern for WC with

- pneumatic manual remote control
- electric push button actuation
- infra-red electronic, radio-electronic

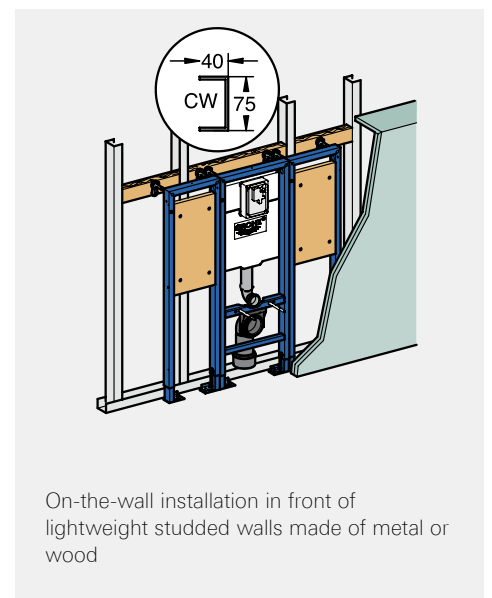
Rapid SL for barrier-free living - perfectly installed for all kinds of installation



On-the-wall installation in front of a solid wall

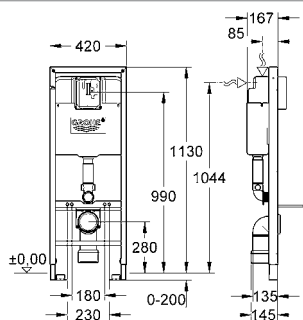


Installation in stud walls



On-the-wall installation in front of lightweight stud walls made of metal or wood

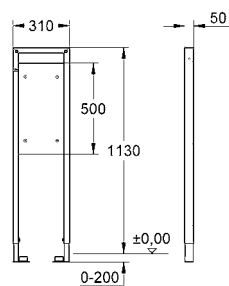
GROHE PLANNING INSTALLATION SYSTEMS - BARRIER-FREE LIVING



38 675 001 Rapid SL for WC

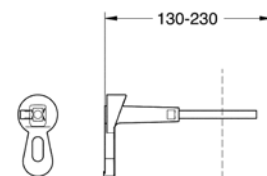
with flushing cistern 6 l, dual flush / start & stop/single flush, 1.13 m installation height, 0.42 m width,

for WC bowls 70 cm projection, mounting height 46 cm, for the disabled



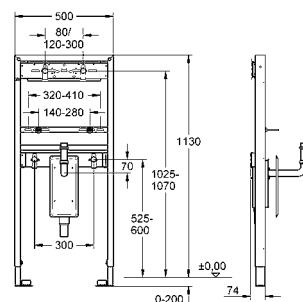
38 559 001 Rapid SL hold element

for support and holding grips in lightweight studded wall partitions or on-the-wall installations



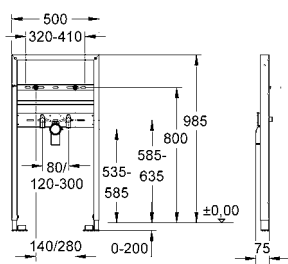
38 558 00M Rapid SL wall brackets

for on-the-wall installation, 2 pieces



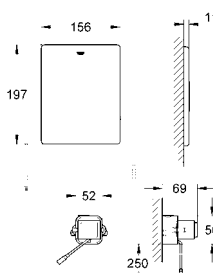
38 625 001 Rapid SL for wash basin

for single hole installation or wall mounted fittings, 1.13 m installation height, with concealed syphon



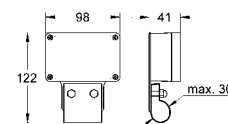
38 541 000

ditto 38.625.001, but single hole installation, 1.00 m installation height, without concealed syphon



38 759 SD0 Radio electronic for WC

for flushing cistern, concealed installation, wall plate 156 x 197 mm, chrome, for support rails of HEWI, Keuco, Normbau



38 758 000 Transmitter

868,4 MHz, for support rails of HEWI, BLANCO, FRANKE

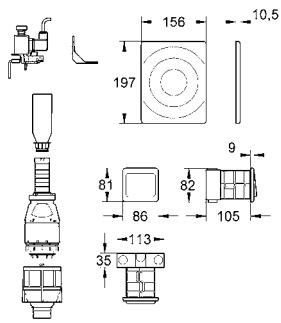


GROHE StarLight®



GROHE EcoJoy™

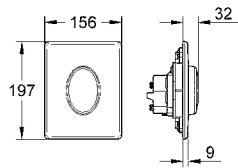
GROHE features:
EcoButton
EasyConnect



38 087 000

actuation button

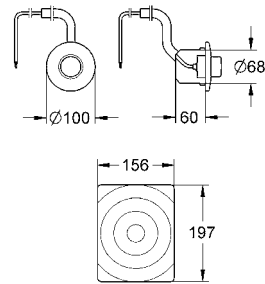
concealed inst., surface actuation with transformer, 230 V AC, box f. conc. inst. Ø113 x 105 x 82 mm, lifting magnet, 2 m connect. cable



38 564 000

Skate Air wall plate

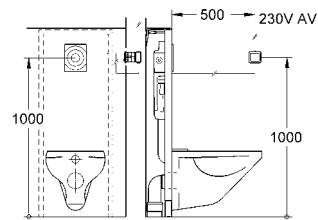
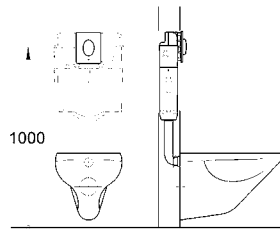
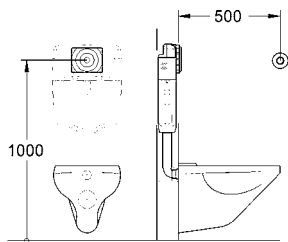
for single flush, vertical installation, 156 x 197 mm, for pneumatic discharge valve, made of ABS



37 059 000

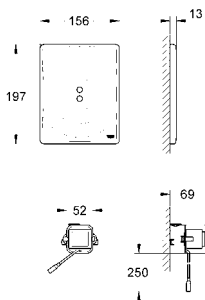
Pneumatic actuation

manual remote control, push button actuation with escutcheon Ø 100 mm, wall plate 156 x 197 mm, pneumatic hose 1.50 m



Note:

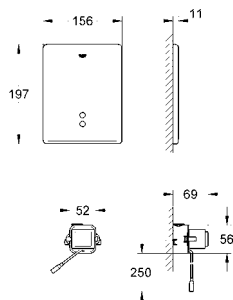
To be used with folding support handle, electric, max. voltage 30V, power max. 2 A



38 699 000

Tectron Surf

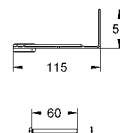
for flushing cistern GD2, concealed installation, infra-red control, 230 V AC, servo motor, wall plate chrome



38 698 SD0

Tectron Skate

for flushing cistern GD2, concealed installation, infra-red control, 230 V AC, servo motor, wall plate stainless steel



43 617 000

Motor support

for Rapid SL 38 675 001, for installation of infra-red electronic

GROHE PLANNING

WC FLUSHING SYSTEMS

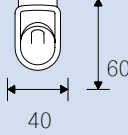
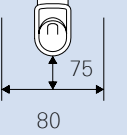




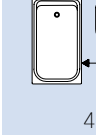
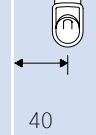
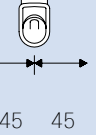
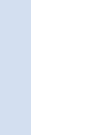
DIMENSIONS WHICH YOU RELY ON

GROHE WC fittings are conceived in such a way that they form a harmonious unit with the WC bowl. Nevertheless, it is only in when they are in accord with optimally planned room sizes and correspondingly dimensioned room for movement that these advantages really make themselves felt. An unending variety of spatial situations, as well as bylaws and DIN regulations, also have to be taken into account thereby.

The following are distinguishing features of modern WC units:

- 1. Sufficient shelving space
- 2. Concealed installation fitting ready to flush at any time, with vandal-proof actuation
- 3. Stable WC seat with a robust holding device
- 4. Concealed installation paper roll holders with integrated reserve roll feed
- 5. Waste container
Additionally, a large waste container in the front area (not shown)
- 6. WC brush
- 7. Clothes hook
- 8. Faucet valve (fitting combination) in accordance with DIN 1988 (not shown)
- 9. Floor drain (not shown)
- 10. Friendly overall design, bright illumination, good ventilation



Room for movement in accordance with DIN 18022									
1. Average fixture dimensions	2. Room for movement for using the fixtures	3. Minimum fixture clearances							
		A. Axis clearances		B. Shower bath tub		C. Side wall		D. Side wall	
									

KNOW-HOW, ON WHICH YOU CAN BUILD

Enhance the quality of living with noise protection.

You can improve the quality of living in both older and more recent buildings by concentrating thoroughly on noise protection. In order to comply with the noise protection requirements contained in DIN 4109, we recommend to do the following:

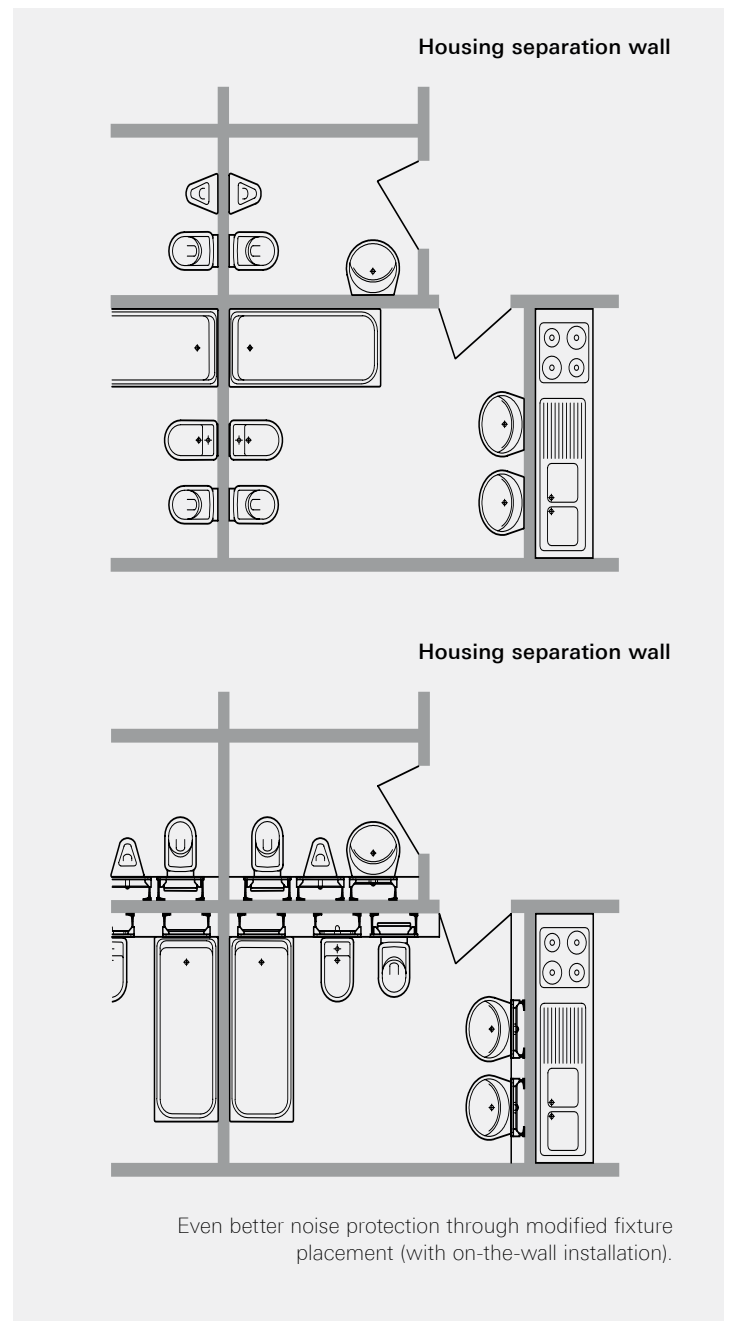
1. Design favourable floor plans.
2. Take care to ensure that the installation walls leading to the living rooms, bedrooms and workrooms in other apartments exhibit a minimum weight of 220 kg/m².
3. Lay pipelines in a manner compatible with noise protection measures.
4. Install only those products which have noise protection certification (e.g. Fraunhofer Institut für Bauphysik) on or in walls with surface weights less than 220 kg/m².
5. Take advantage of the possibilities of noise protection for on-the-wall installation.

The inlet and outlet lines are laid without any contact between element and masonry with on-the-wall installation with Rapid SL.

The advantage: There is no structure-borne sound. Elaborate pipe insulation efforts are thus not necessary. In cases of on-the-wall installation in wet conditions, Uniset offers optimum noise protection by wrapping sources of structural sound with an insulation made of EPS. The pipelines must be completely clad in material for deadening structural sound.

Pipe-in-pipe system for WC flush valves

Double connector boxes are used for connecting exposed installation fittings. Double fitting connections are available with concealed fittings. The feeding line is in the dimensions 16 x 2.2 mm or 20 x 2.8 mm.



GROHE PLANNING

URINAL FLUSHING SYSTEMS

STANDARD VALUES FOR SPECIFICATION

Planning and installation are a matter of measurement. In order to make both of these easier for you, you will find here specifications concerning required spatial depths, fixture clearances, room for movement, etc.

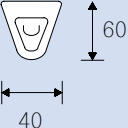
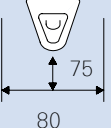





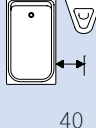
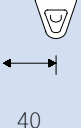
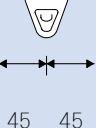
The following things are to be found in an attractive urinal installation:

- 1. Sufficient shelving space
- 2. Syphon urinal bowl with concealed inlet and outlet
- 3. Automatic flushing unit
- 4. Separations between the urinal bowls
- 5. Waste container
- 6. Faucet valve (fitting combination) in accordance with DIN 1988
- 7. Floor drain
- 8. Friendly overall design, bright illumination, good ventilation

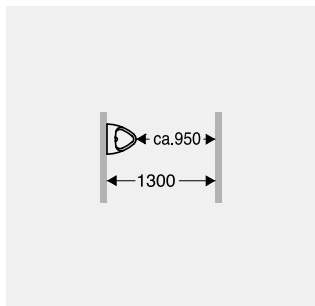


* Height dimension dependent on the fitting used.

** Recommendation 700 mm,
standard 650 mm,
for boys 500 mm.

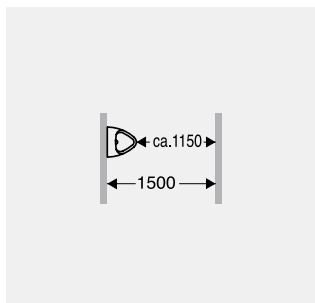
Room for movement in accordance with DIN 18022									
1. Average fixture dimensions	2. Room for movement for using the fixtures	3. Minimum fixture clearances							
		A. Axis clearances				B. Shower bath tub	C. Side wall	D. Side wall	
									
40	80	70	65	60	60	65	40	40	45 45

KEEP YOUR DISTANCE

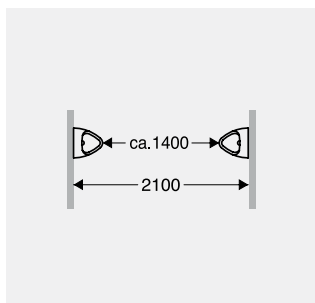


Spatial depths: Urinals on a wall

Minimum clearance between:
Urinal/wall approx. 950 mm
the walls approx. 1.300 mm

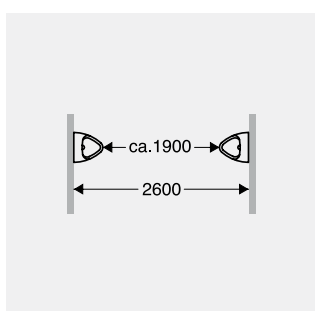


Normal clearance between:
Urinal/ wall approx. 1 150 mm
the walls approx. 1 500 mm

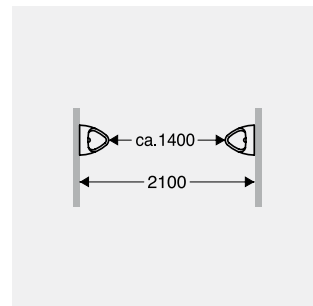


Spatial depths: Urinals on opposite sides

Minimum clearance between:
Urinal/wall approx. 1.400 mm
the walls approx. 2.100 mm

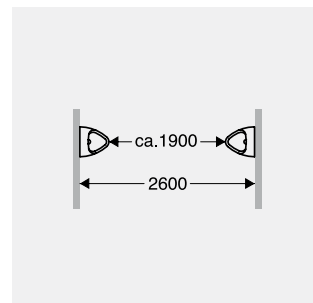


Normal clearance between:
the urinals approx. 1 900 mm
the walls approx. 2 600 mm

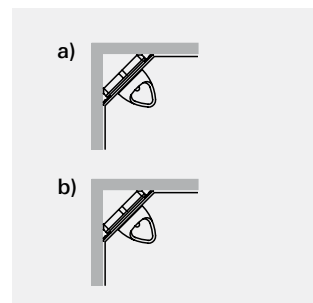


Spatial depths: Urinals in connection with WC stalls/ With WC stalls with door openings.

Inward clearance between:
Urinal/WC stall approx. 1 150 mm
the walls approx. 3 000 mm



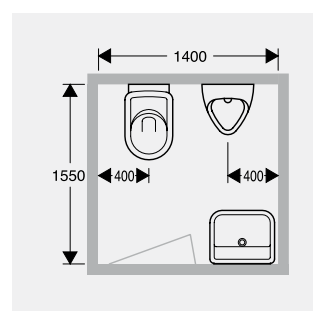
Outward clearance between:
Urinal/wall approx. 1 900 mm
the walls approx. 3 500 mm



Urinals in the corner.

Recommended corner solutions with urinal bowls:

- a) with Rapid SL and the installation set for corners of rooms 38.562.001 or
- b) with Uniset and a masonry-off in the corner



Urinals in the private sector.

Small urinals with lids offer more hygiene in the home and help conserve water. The private urinal has a place even in small rooms and should as a rule be lined up next to the WC.

GROHE PLANNING

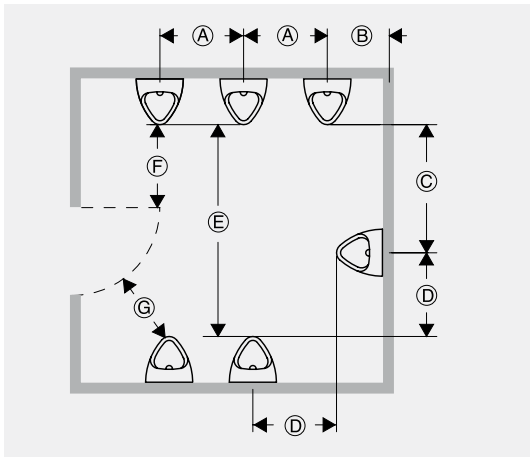
URINAL FLUSHING SYSTEMS

STANDARD VALUES FOR SPECIFICATION

Whether you select our hand actuated urinal fittings or our automatic ones: with GROHE you will make a terrific impression. Nevertheless, in public urinal installations with a great deal of public traffic, you should as a fundamental principle install "self-triggering" flushing devices. This is also required by DIN 1986 for reasons of hygiene.

Automatically-functioning flushing units such as the Radar electronic or the Tectron electronic ensure that there is a regular flushing after each use - touch-free and absolutely reliable.

Very much to be recommended: suction urinals with concealed inlets and outlets. Suction urinals reduce the development of odours and flush away objects which have been thrown in, such as cigarette butts, etc. Take care to ensure that these urinals are provided with concealed inlets and outlets. That way no "dirty corners" will be able to form.



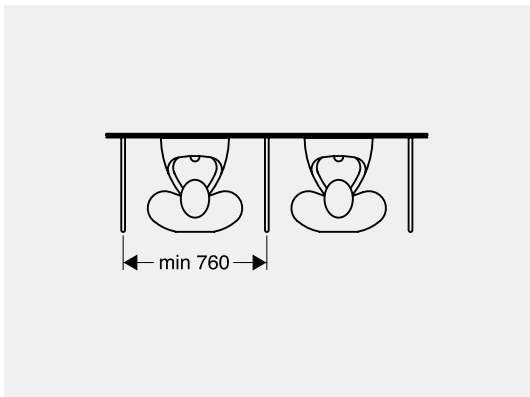
Minimum clearances with urinals / public sector		
	Radar electronic	Infra-red electronic
Ⓐ	600 mm	600 mm
Ⓑ	400 mm	400 mm
Ⓒ	900 mm	900 mm
Ⓓ	900 mm	900 mm
Ⓔ	1.400 mm	1.400 mm
Ⓕ	500 mm	350 mm
Ⓖ	350 mm	350 mm

Automatically-functioning flushing units such as the Radar electronic or the Tectron electronic ensure that there is a regular flushing after each use - touch-free and absolutely reliable.

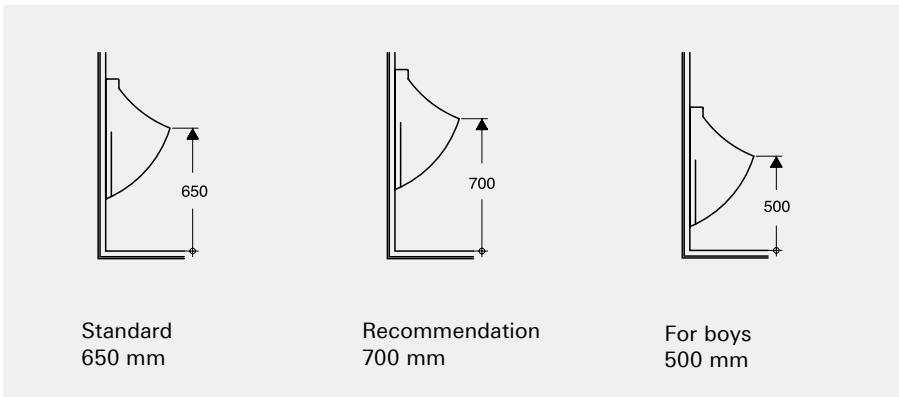
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In order to ensure that no unwanted flushes are triggered, the movement area around other fixtures (e.g. WC, wash basin) should not overlap the room for movement around the urinal specified above.

Minimum separation clearances



This is how you install urinal hygiene made to measure



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