



Dornbracht Smart Set

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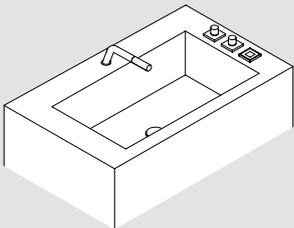
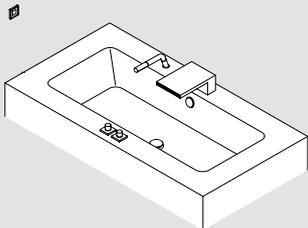
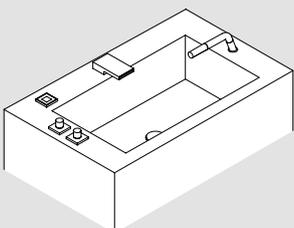
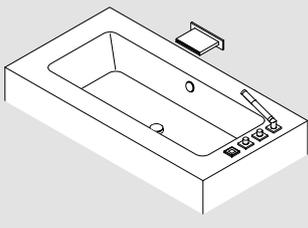
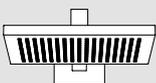
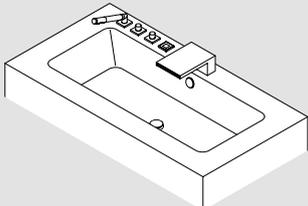
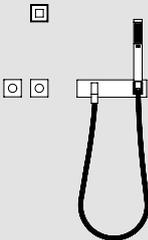
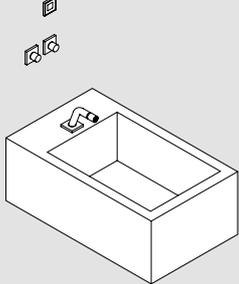
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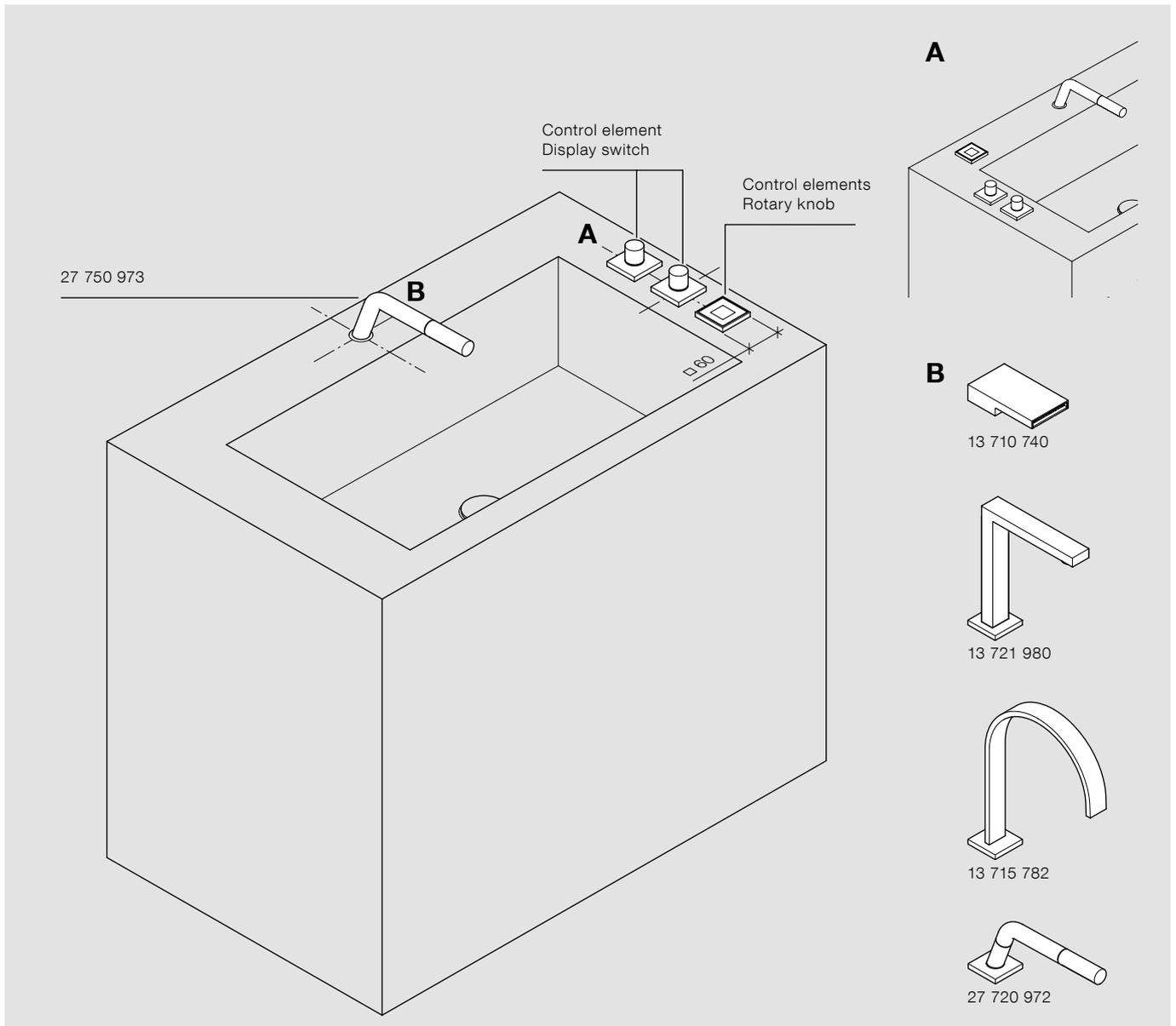
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Overview Smart Set

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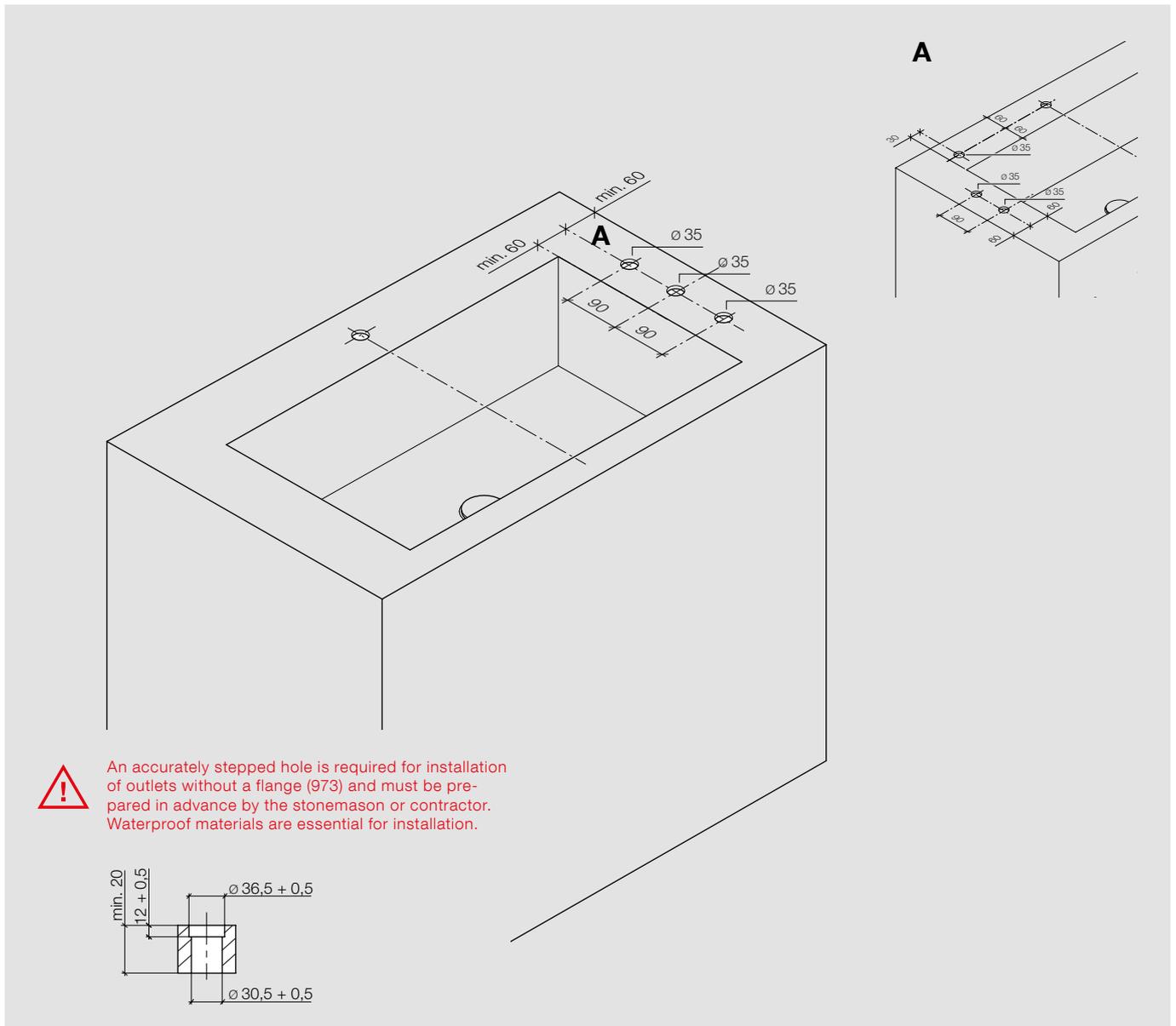
Washbasin for 1 outlet point



This positioning is a recommendation. In principle, you can choose the position for the outlet and control elements of SMART SET.

The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com. Depending on the choice of outlet you may have to order the pop-up waste separately.

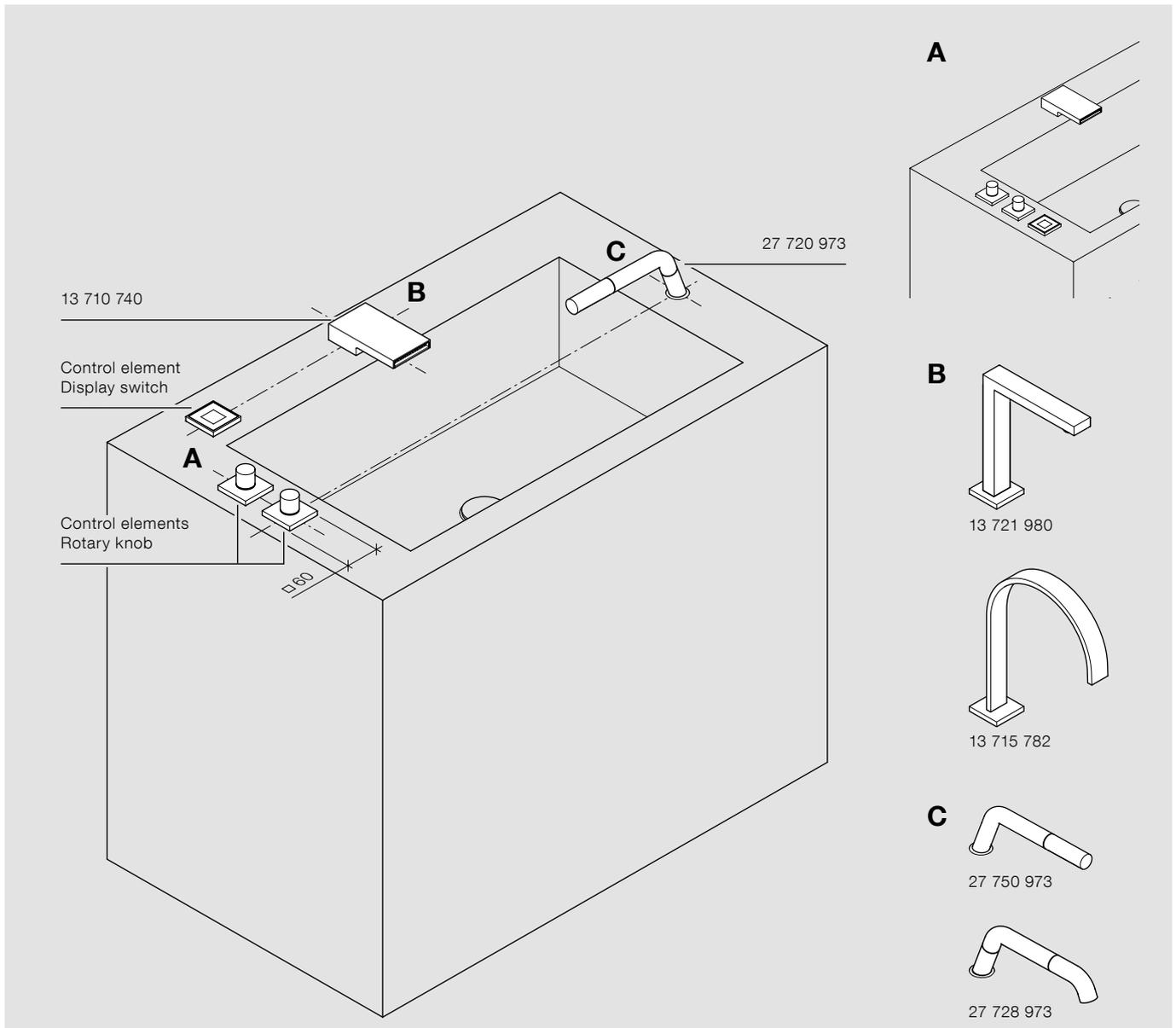
Washbasin for 1 outlet point



If the maximum thickness for the worktop is exceeded, a corresponding recess must be milled from below with a minimum diameter of 50 mm.

Detailed drawings of the components including maximum required thickness and hole diameter can be found on www.dornbracht.com.

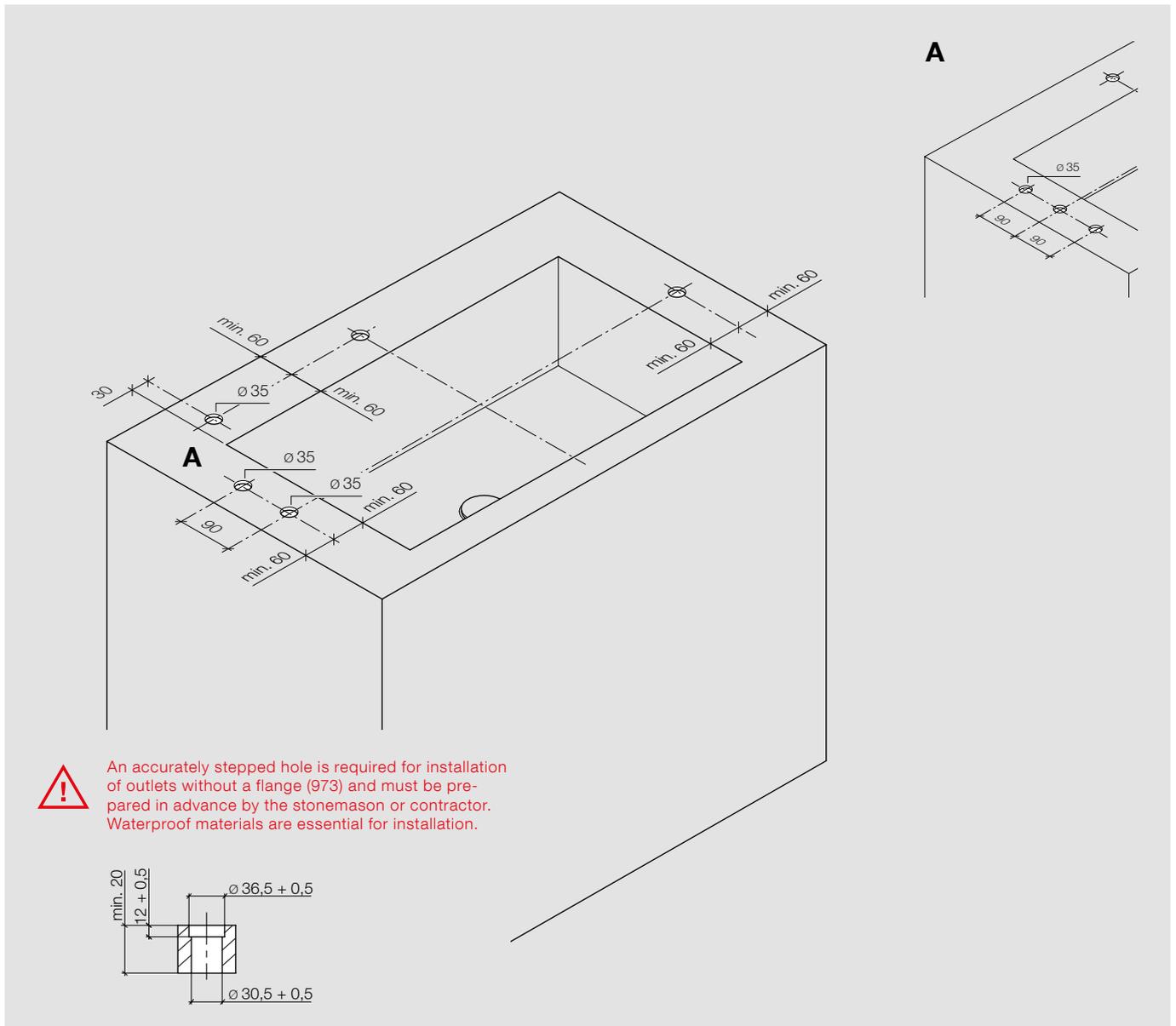
Washbasin for 2 outlet points



This positioning is a recommendation. In principle, you can choose the position for the outlets and control elements of SMART SET.

The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com. Depending on the choice of outlet you may have to order the pop-up waste separately.

Washbasin for 2 outlet points

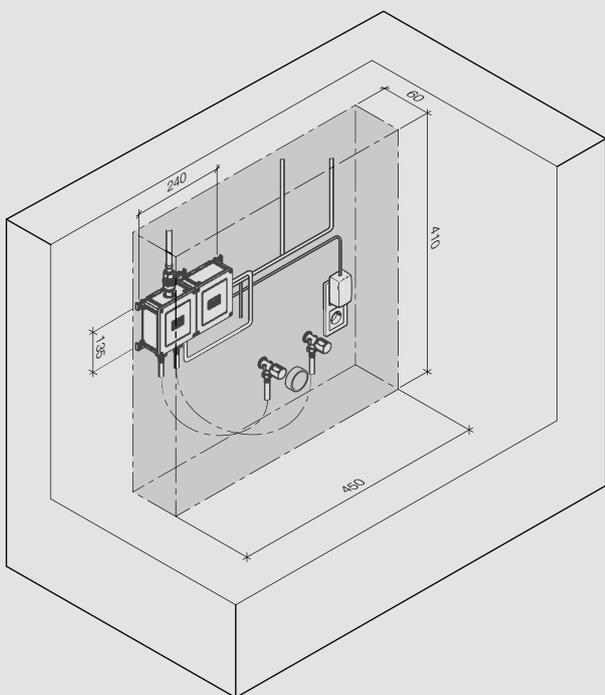


If the maximum thickness for the worktop is exceeded, a corresponding recess must be milled from below with a minimum diameter of 50 mm.

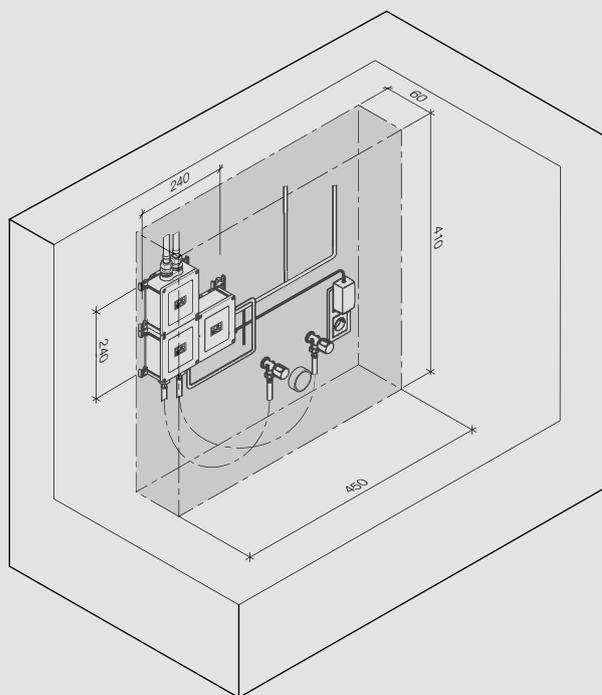
Detailed drawings of the components including maximum required thickness and hole diameter can be found on www.dornbracht.com.

Components

eSET washbasin for 1 outlet point

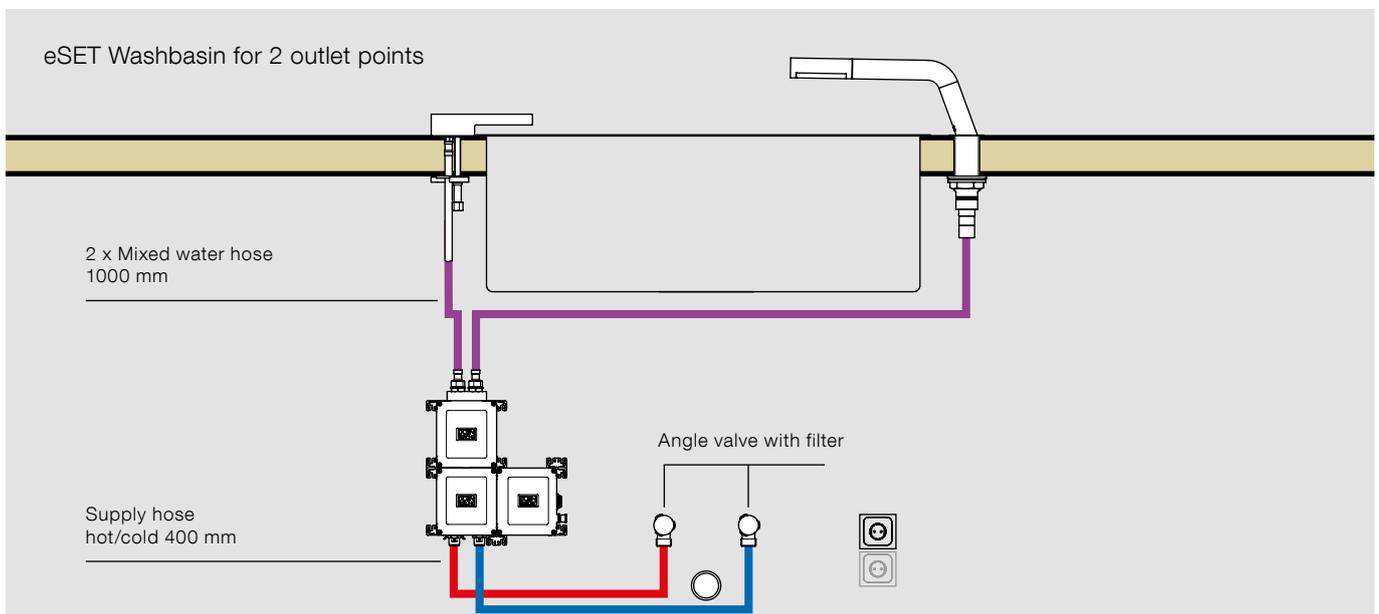
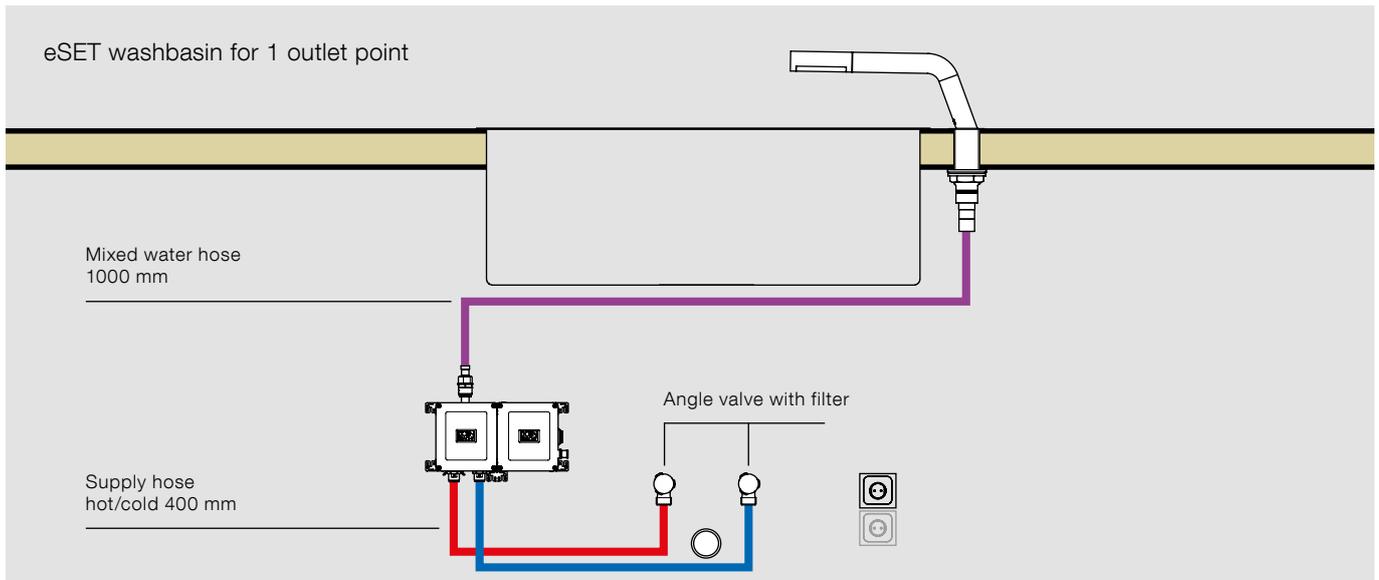


eSET washbasin for 2 outlet points



This installation example shows the minimum space requirement for the control unit and connection components.

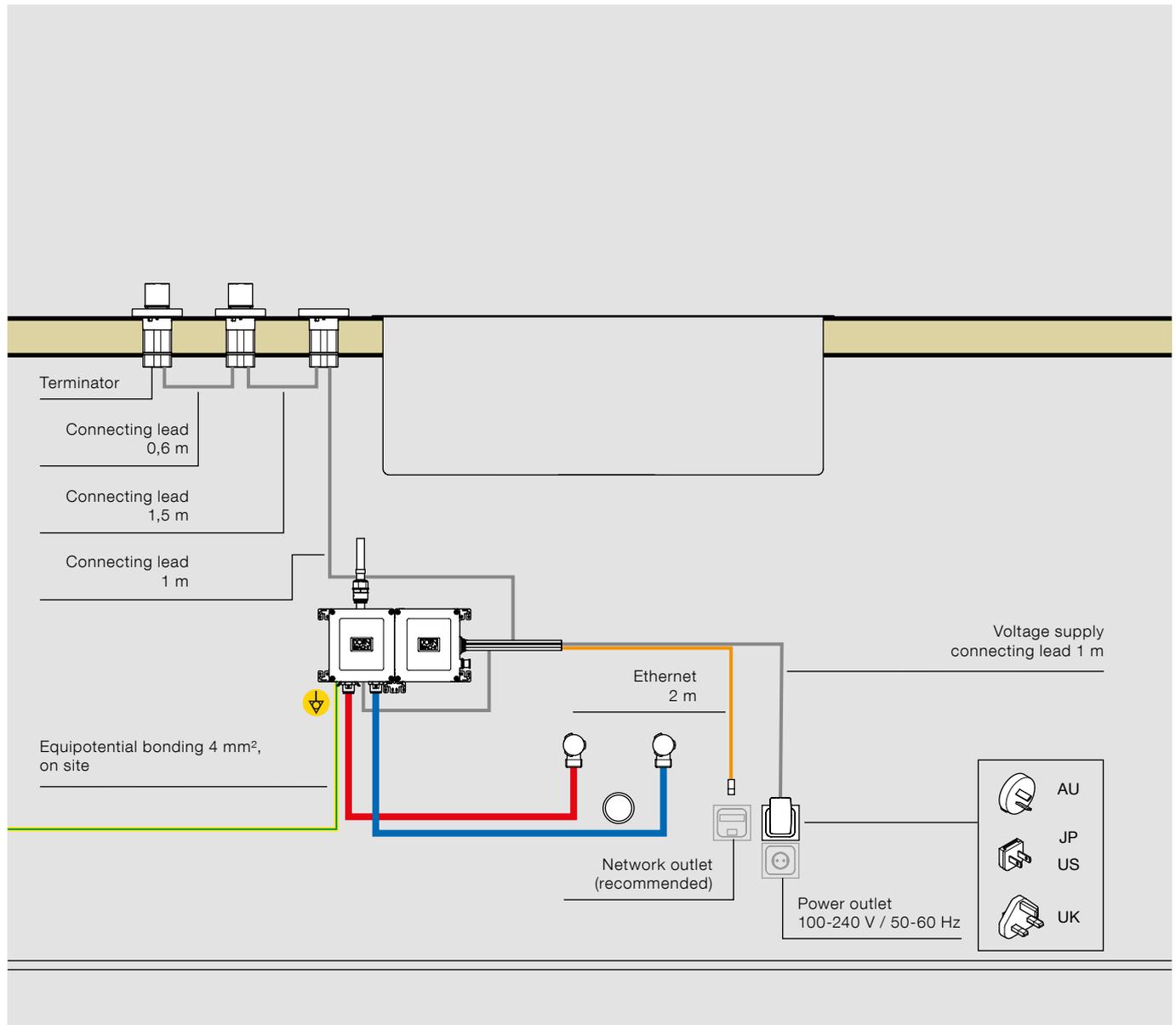
Water installation



Compliance with national requirements for drinking water installations is mandatory. The supplied angle valves with filter have to be used. These special angle valves reliably protect the eVALVE from dirt and debris.

PLEASE ALSO REFER TO THE PLANNING INFORMATION

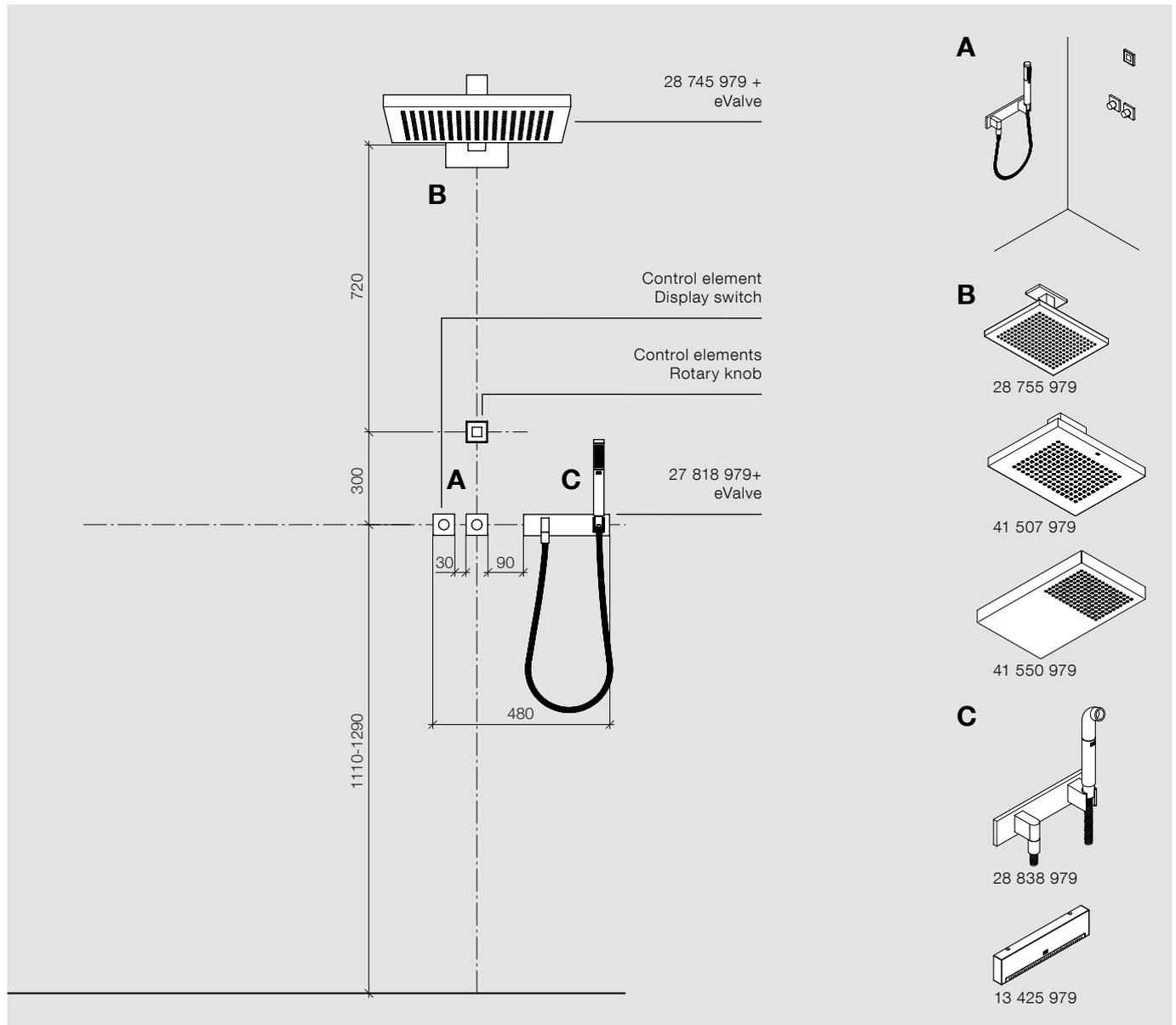
Electrical installation



Compliance with national requirements for electrical installations is mandatory. The power supply for the eSET is realised through an electrical outlet. eSET must be connected via a residual current circuit-breaker (rated differential current up to 30 mA). An uninterruptible power supply (UPS) is recommended. Relevant extension cables are available for the installed connecting leads, if required. The individual components are connected using the “plug-and-play” concept. The connection of an equipotential bonding cable (4mm²) is mandatory. The supplied Ethernet cable can be used to connect the Dornbracht components to a network. A network outlet according to TIA 568A is necessary to connect the SMART SET to a network. The local network has to be behind a router with firewall. We recommend setting up a VLAN if there is more than one Dornbracht solution in a local network.

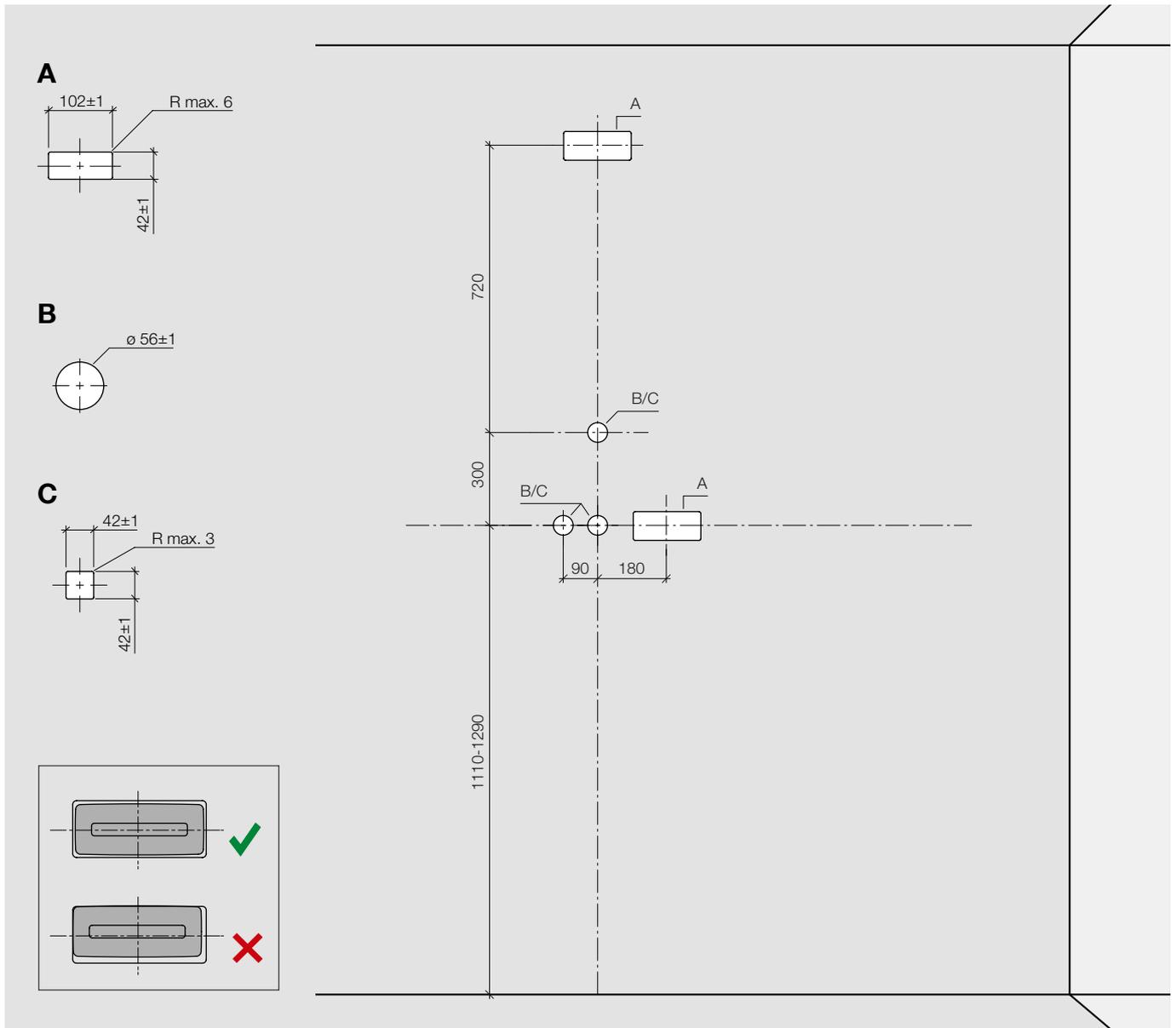
POSITIONING RECOMMENDATIONS	Installation	Washbasin	Bath Version A
Components	Data and standards	for 1 outlet point	Bath Version B
Access	Product overview	Washbasin	Bath Version C
	Checklists	for 2 outlet points	Bidet
		SHOWER	

Shower



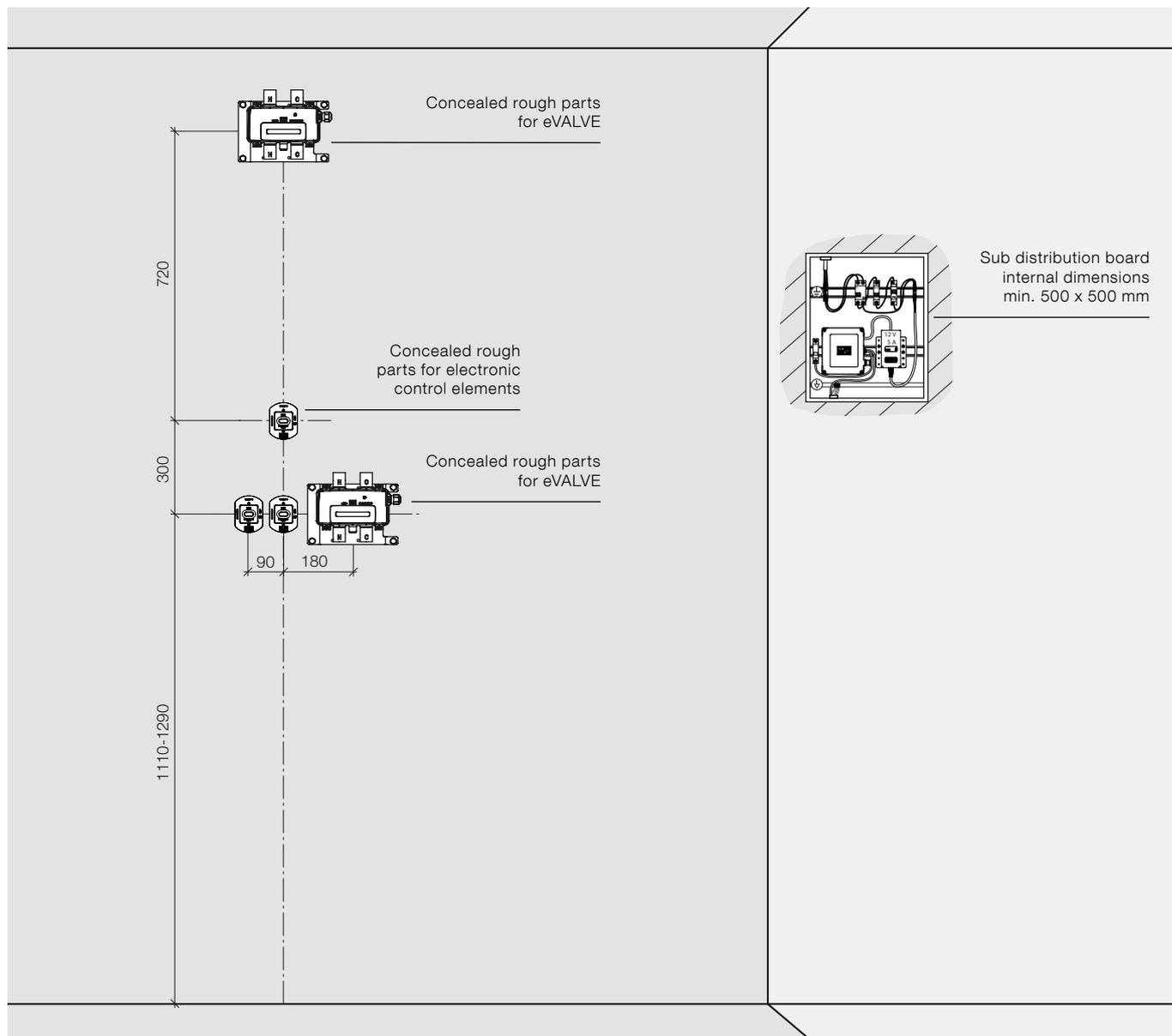
The recommended height for the rotary knob and the hand shower set on the wall is 1200 mm measured from the finished floor level (FFL) for a person with a height of 1750 mm. The recommended distance in height between the display switch is 300 mm. All measurements can be varied and customized according to the specific needs of the application. The horizontal and vertical distance between the control elements is 90 mm (center to center) and must not be less. The distance between the maximum height of the tallest user and underside of the rain shower should be at least 400 mm. The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com.

Shower



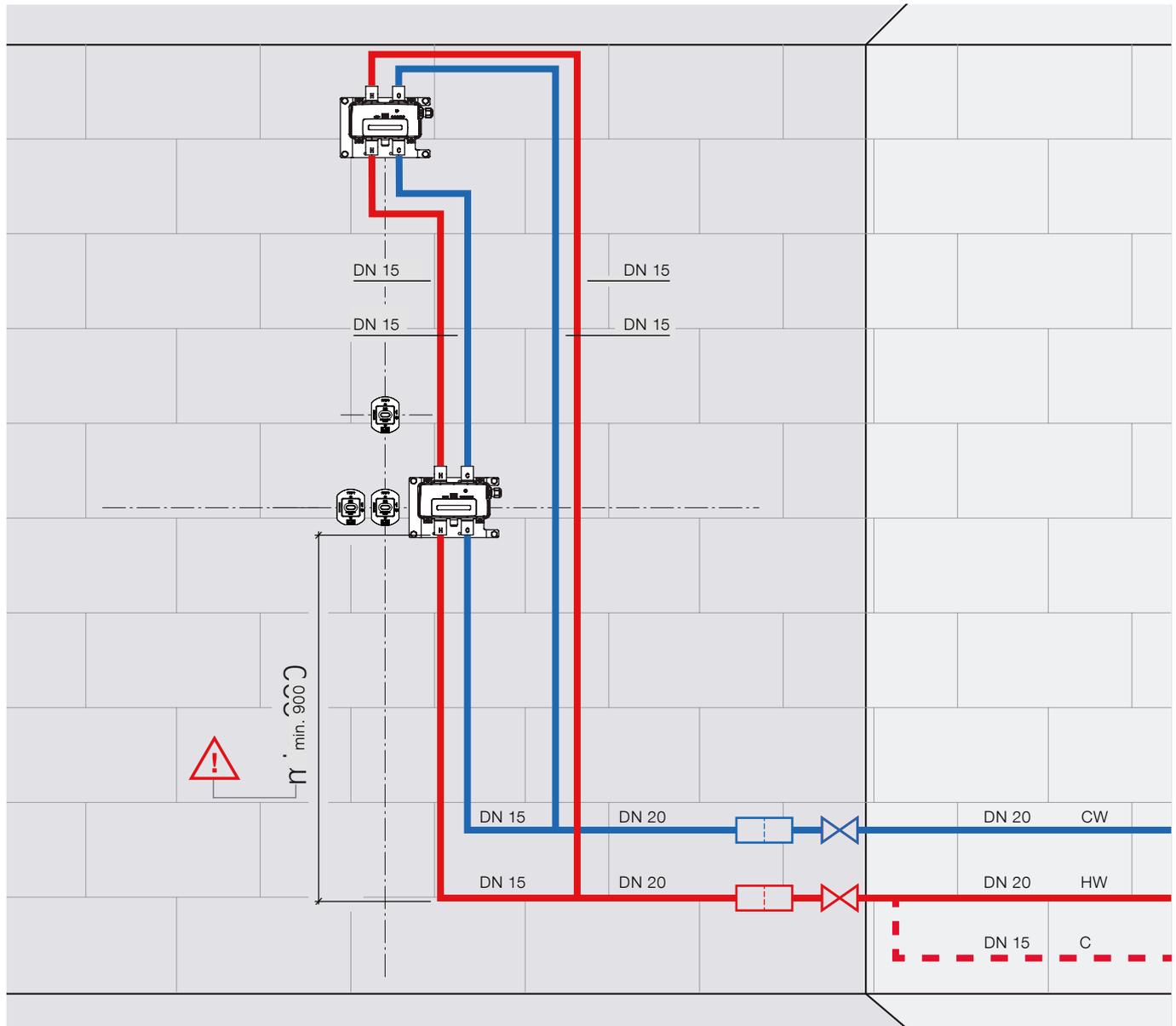
- Please note the individual cutouts.
- The concealed rough parts for electronic control elements require a $\varnothing 56$ mm hole in the dry wall paneling (B). The concealed rough parts for electronic control elements are covered by tiles/stone and require a hole of 42×42 mm (C).

Concealed rough parts and peripheral equipment



- DIN VDE 0100, PART 701 compliant safety zones. Please conform to national statutory regulations, where different.
- The power supply has to be installed outside of safety zone 2 in a sub distribution board.
- The protection rating of the individual components has to be noted during installation and is only valid when installed correctly.
- Control elements, hand shower set and eVALVE are operated through safety extra-low voltage (SELV) and can be installed inside safety zone 1.

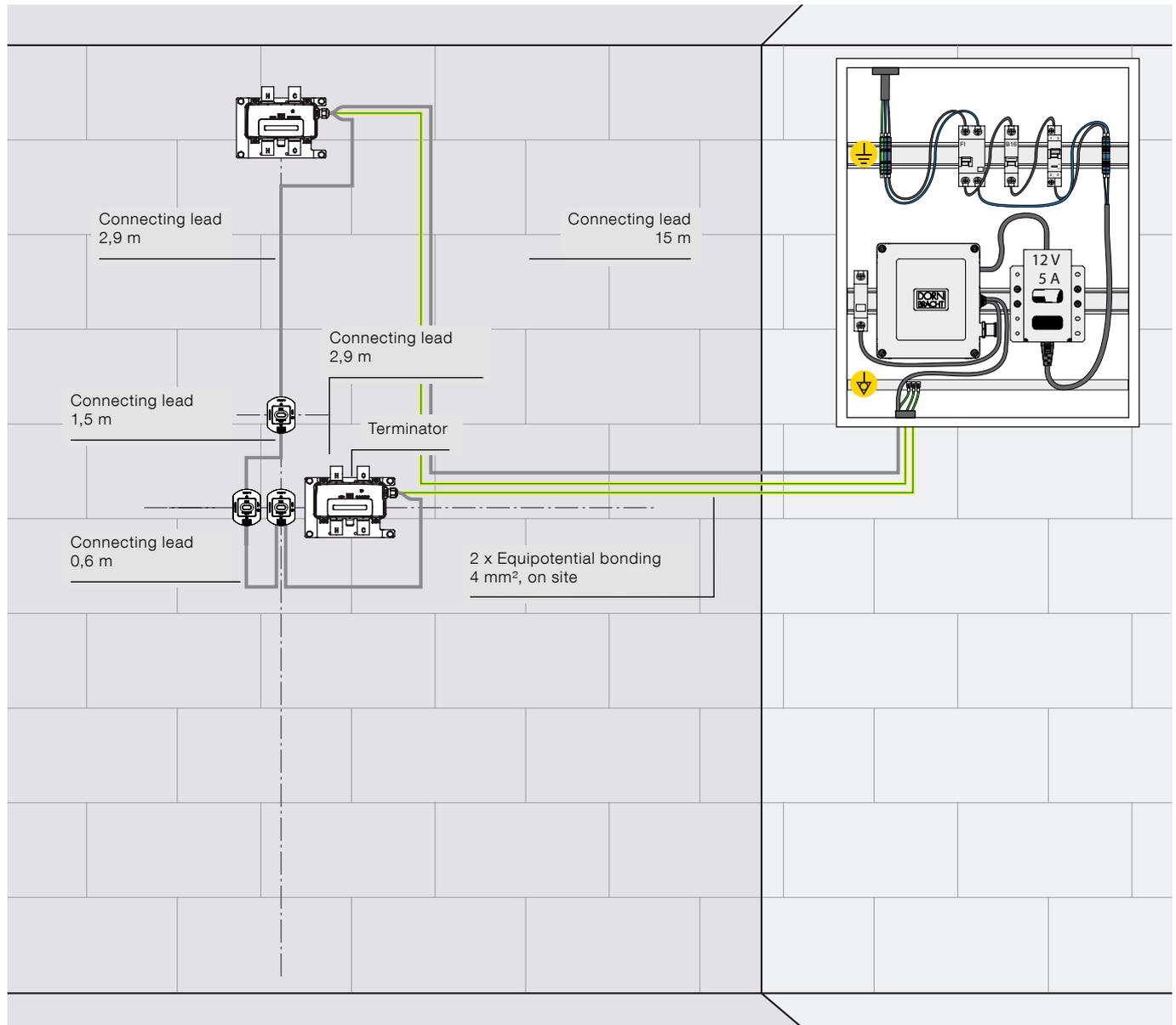
Water installation



- Separate shutoffs (DN 20) and filters (DN 20) for hot and cold water pipes are supplied with the eSET.
- Separate shutoffs (DN 20) and filters (DN 20) for hot and cold water pipes have to be positioned to be accessible at all times.
- With a circulation pipe, the minimum distance to the eVALVE of the hand shower set must be 900 mm.
- The nominal diameter (DN 20/ DN 15) has to be adhered to for both pipes and fittings.

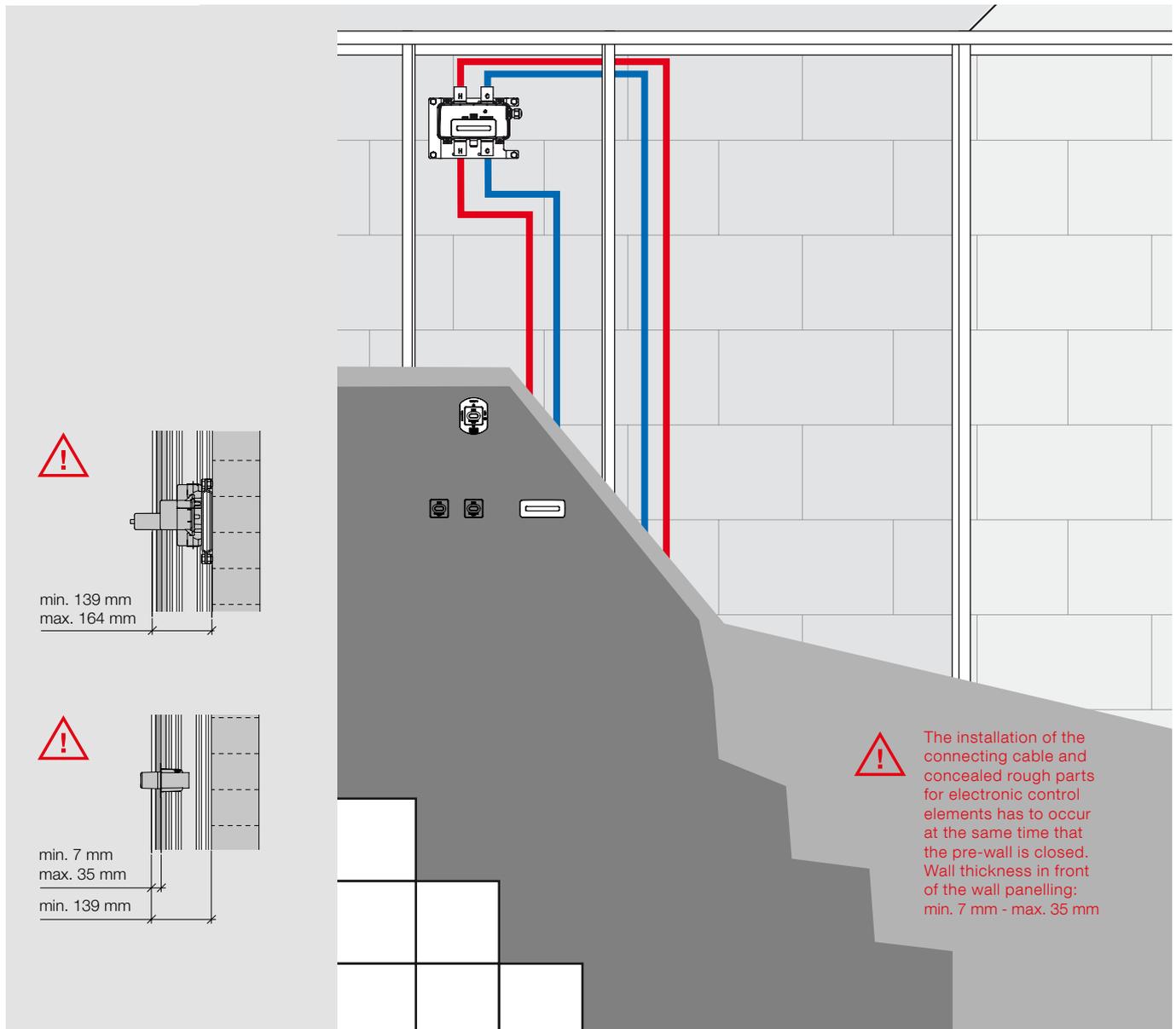
PLEASE ALSO REFER TO THE PLANNING INFORMATION

Electrical installation



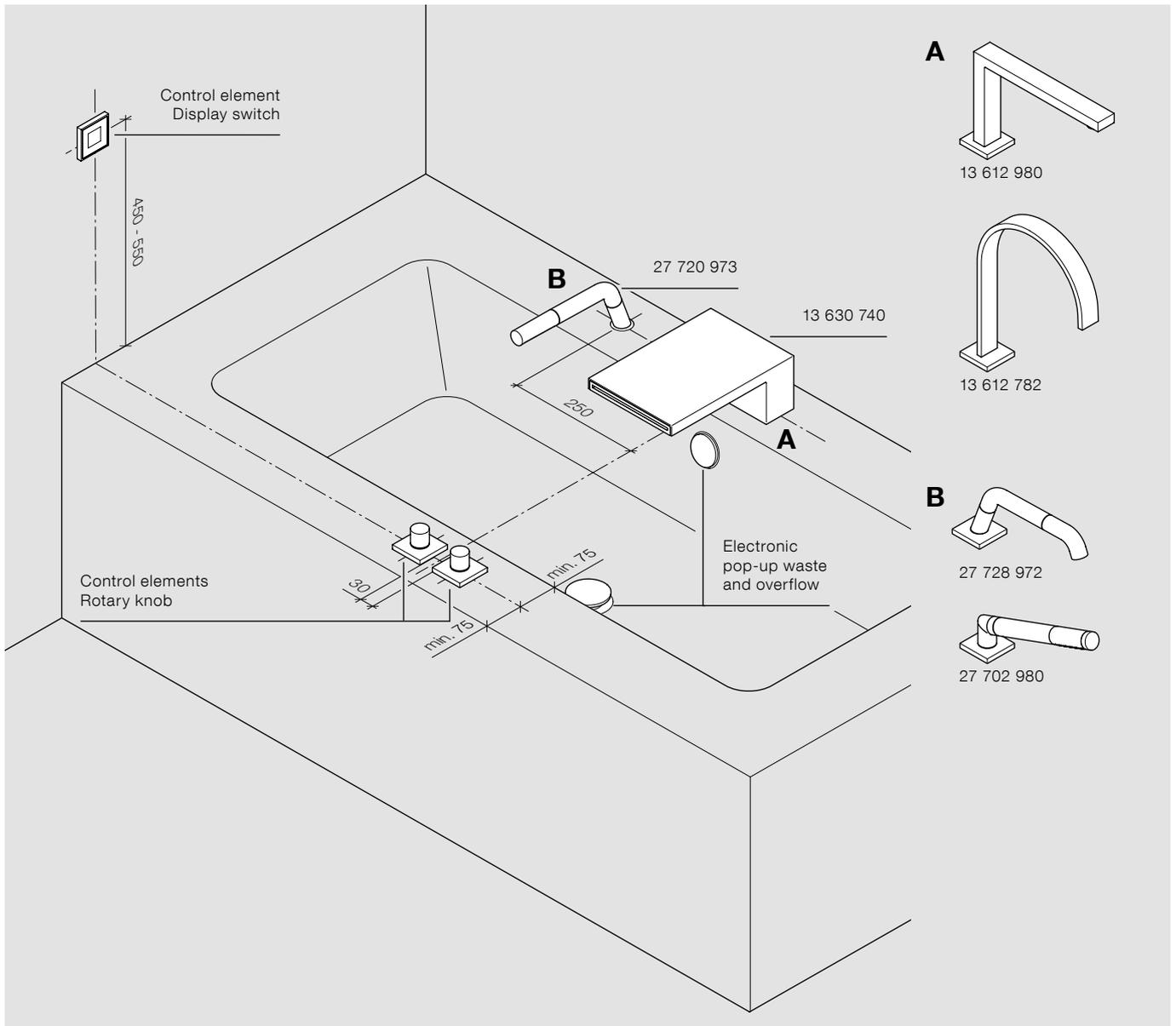
Only connect to the electricity supply when the device is voltage-free. Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100. Please conform to national statutory regulations, where different. The power supply and the motherboard are to be installed in a sub distribution board. The connection of an equipotential bonding cable (4mm²) to both concealed rough parts is mandatory. The supplied Ethernet cable can be used to connect the Dornbracht components to a network. A network outlet according to TIA 568A is necessary to connect SENSORY SKY to a network. The local network has to be behind a router with firewall. We recommend setting up a VLAN if there is more than one Dornbracht solution in a local network. The customer must provide the following circuit-breakers and electrical components: Earth leakage circuit breaker (30 mA, 2-pin, type A), safety cut-out (6 A, type B), equipotential busbar in sub distribution board, equipotential bonding (4 mm²) for concealed rough parts eVALVE.

Pre-wall installation



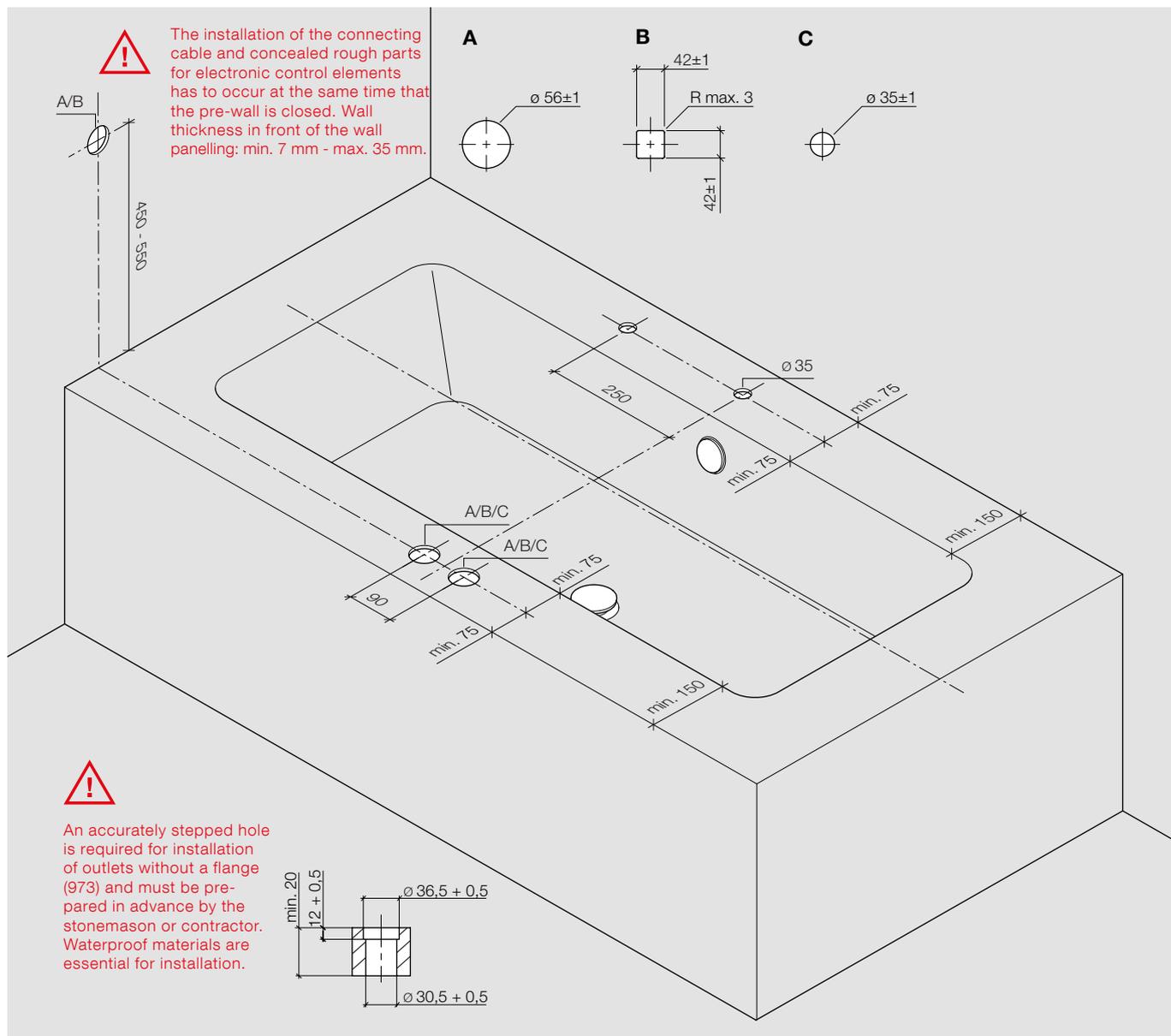
The drywall for the ceiling has to meet quality standard Q3 (no visible gaps and closed pores). An installation with a pre-wall system in front of the wall is mandatory due to the minimum installation depth and the installation method of the concealed rough parts for electronic control elements. The proper installation of a pre-wall system enables compliance with on-site requirements with fire protection, heat and noise insulation. Pre-wall installation systems are available from various manufacturers. The thickness of the wall covering (tile, stone etc.) in front of the dry wall panelling (gypsum card-board) around the rough parts for electronic control elements is min. 7 - max 35 mm.

Version A



For wall-mounted control elements a pre-wall installation is required due to the rough in depth (min. 139 mm) and the installation of a rough-in box. If the outlet is installed on the side of the wall, an access panel has to be considered. If the outlets cannot be accessed via the access panels another method of access (e.g. with Perfecto installation frame 12 630 970 90) has to be provided for. This positioning is a recommendation. In principle, you can choose the position for the outlets and control elements of SMART SET depending on cable length and access panels. The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com. Depending on the choice of outlet you may have to order the pop-up waste separately.

Version A

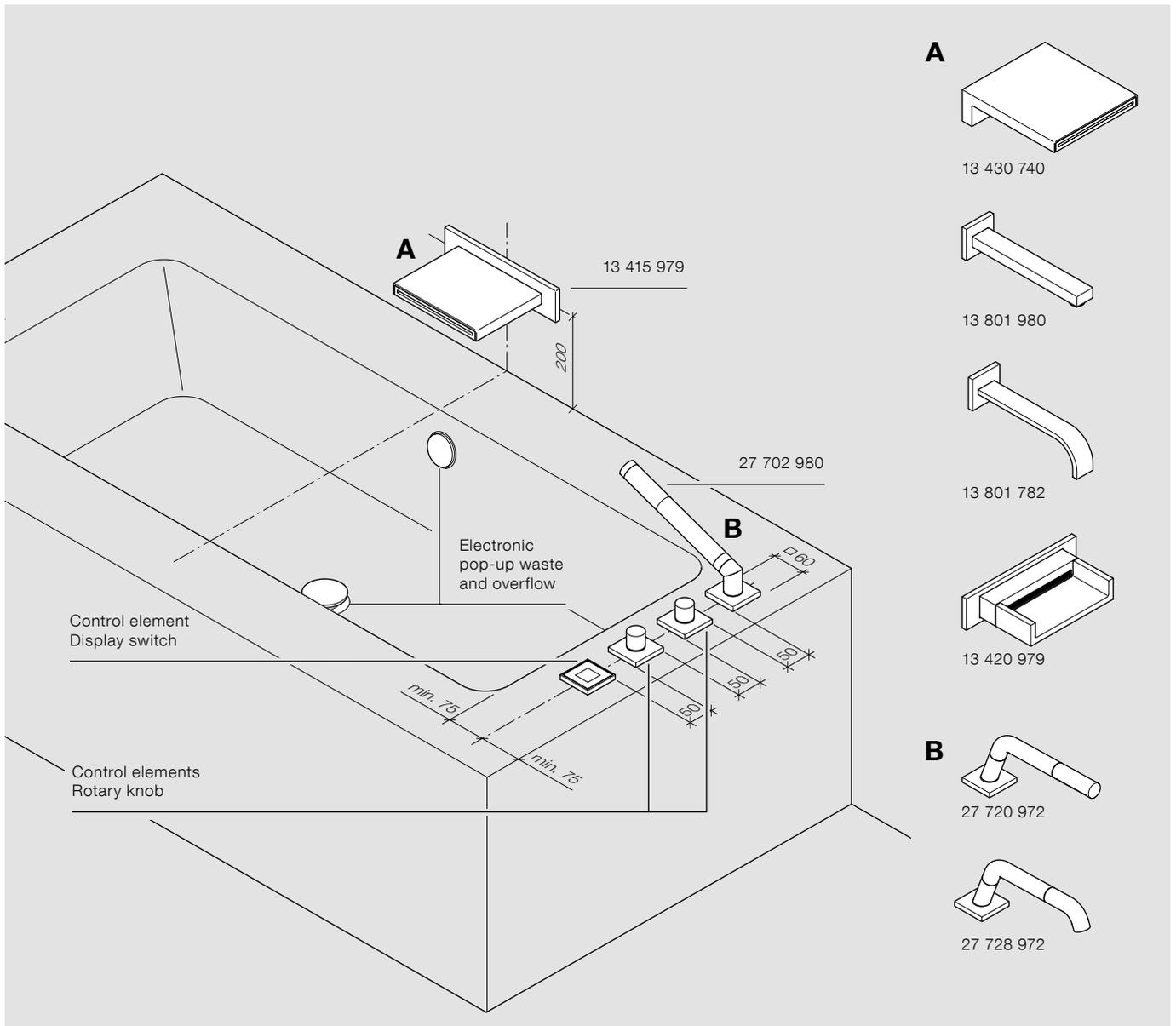


The recommended installation height for a 1,75 m tall person is 500 mm for the rotary knobs starting from the top of the bath. The distance between the control elements must not be less than 90 mm (center to center). The concealed rough parts for electronic control elements require a hole diameter of 56 mm (A). The rough parts are partially covered by tiles. The tile requires a hole of 42 x 42 mm (B) - tile thickness: min. 7 - max. 35 mm. When using natural stone, Corian or similar materials, the deck mounted control element can be mounted without concealed rough parts. In that case a hole diameter of 35 mm (C) is required and the thickness of the material is min. 20 mm - max. 40 mm. For wall-mounted control elements a pre-wall installation is required (depth pre-wall min. 139 mm).

POSITIONING RECOMMENDATIONS	Installation
Components	Data and standards
Access	Product overview
	Checklists

Washbasin	Bath Version A
for 1 outlet point	BATH VERSION B
Washbasin	Bath Version C
for 2 outlet points	Bidet
Shower	

Version B



The piping to an outlet on the wall has to be provided for on site.

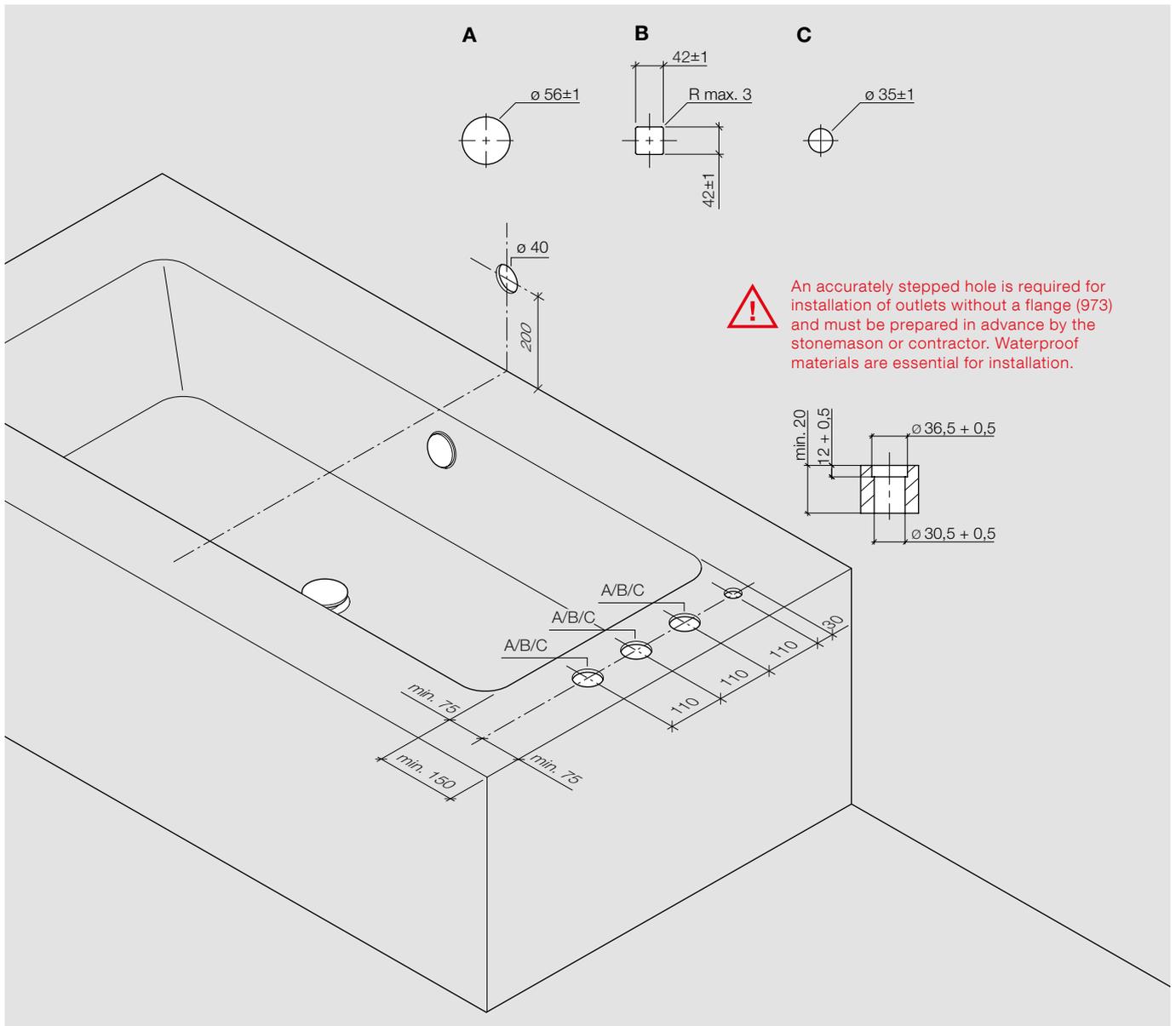
This positioning is a recommendation. In principle, you can choose the position for the outlets and control elements of SMART SET depending on cable length and access panels.

The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com. Depending on the choice of outlet you may have to order the pop-up waste separately.

POSITIONING RECOMMENDATIONS	Installation
Components	Data and standards
Access	Product overview
	Checklists

Washbasin	Bath Version A
for 1 outlet point	BATH VERSION B
Washbasin	Bath Version C
for 2 outlet points	Bidet
Shower	

Version B

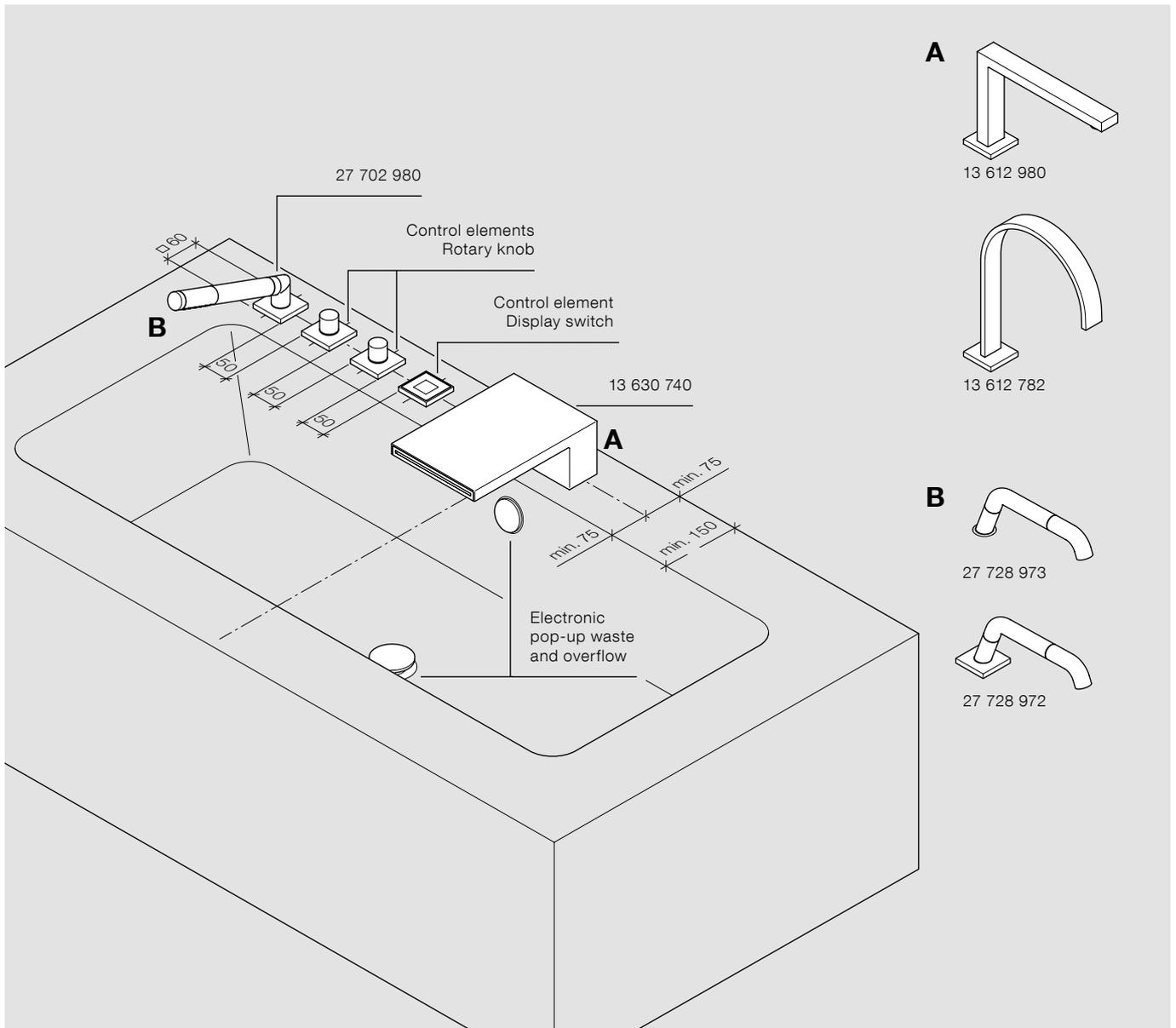


The distance between the control elements must not be less than 90 mm (center to center). The concealed rough parts for electronic control elements require a hole diameter of 56 mm (A). The rough parts are partially covered by tiles. The tile requires a hole of 42 x 42 mm (B) - tile thickness: min. 7 - max. 35 mm. When using natural stone, Corian or similar materials, the deck mounted control element can be mounted without concealed rough parts. In that case a hole diameter of 35 mm (C) is required and the thickness of the material is min. 20 mm - max. 40 mm.

POSITIONING RECOMMENDATIONS	Installation
Components	Data and standards
Access	Product overview
	Checklists

Washbasin	Bath Version A
for 1 outlet point	Bath Version B
Washbasin	BATH VERSION C
for 2 outlet points	Bidet
Shower	

Version C



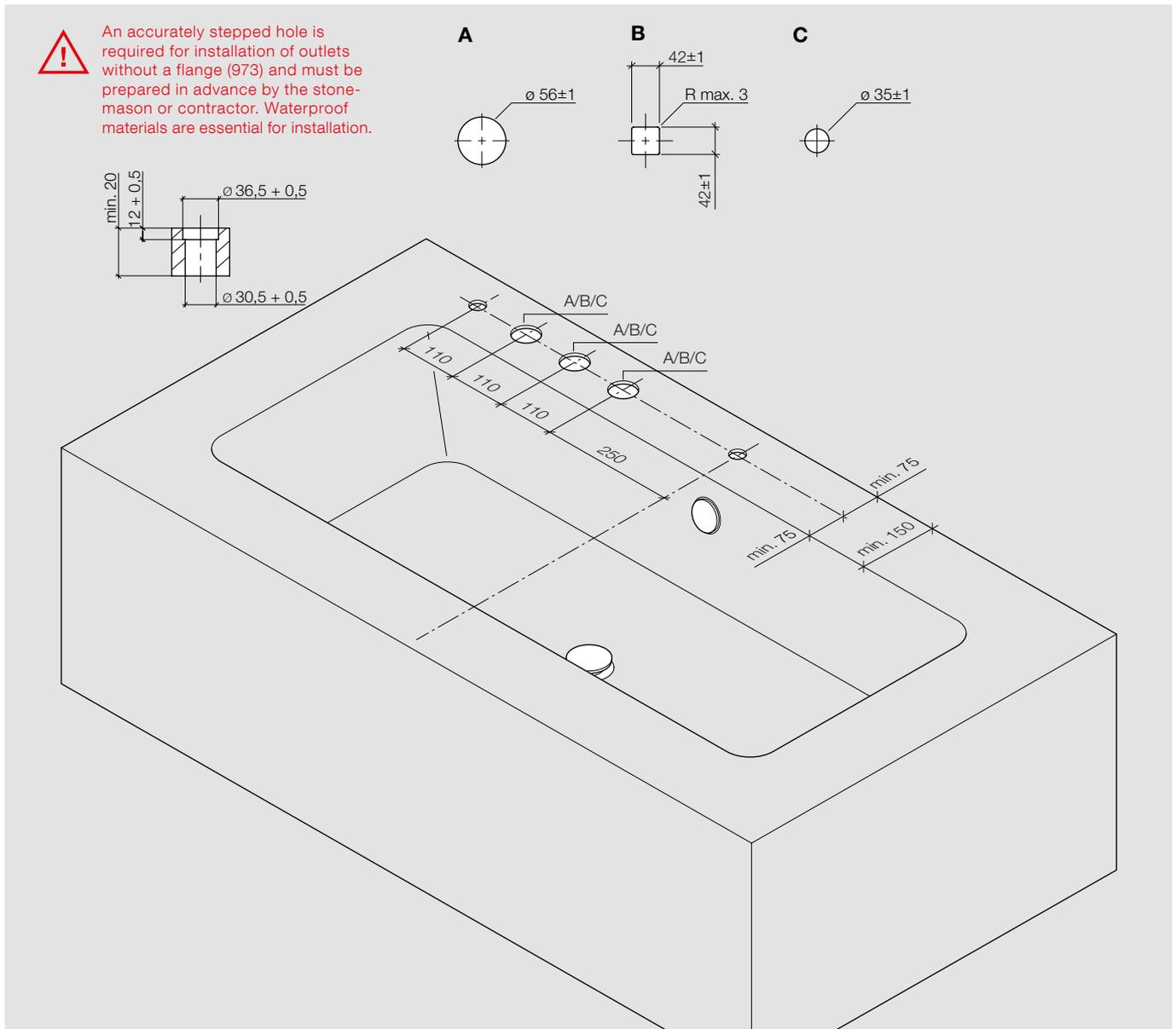
This positioning is a recommendation. In principle, you can choose the position for the outlets and control elements of SMART SET depending on cable length and access panels.

The listed outlets are only an excerpt of the possible combinations. Further possible configurations can be found in Dornbracht Professional on www.dornbracht.com. Depending on the choice of outlet you may have to order the pop-up waste separately.

POSITIONING RECOMMENDATIONS	Installation
Components	Data and standards
Access	Product overview
	Checklists

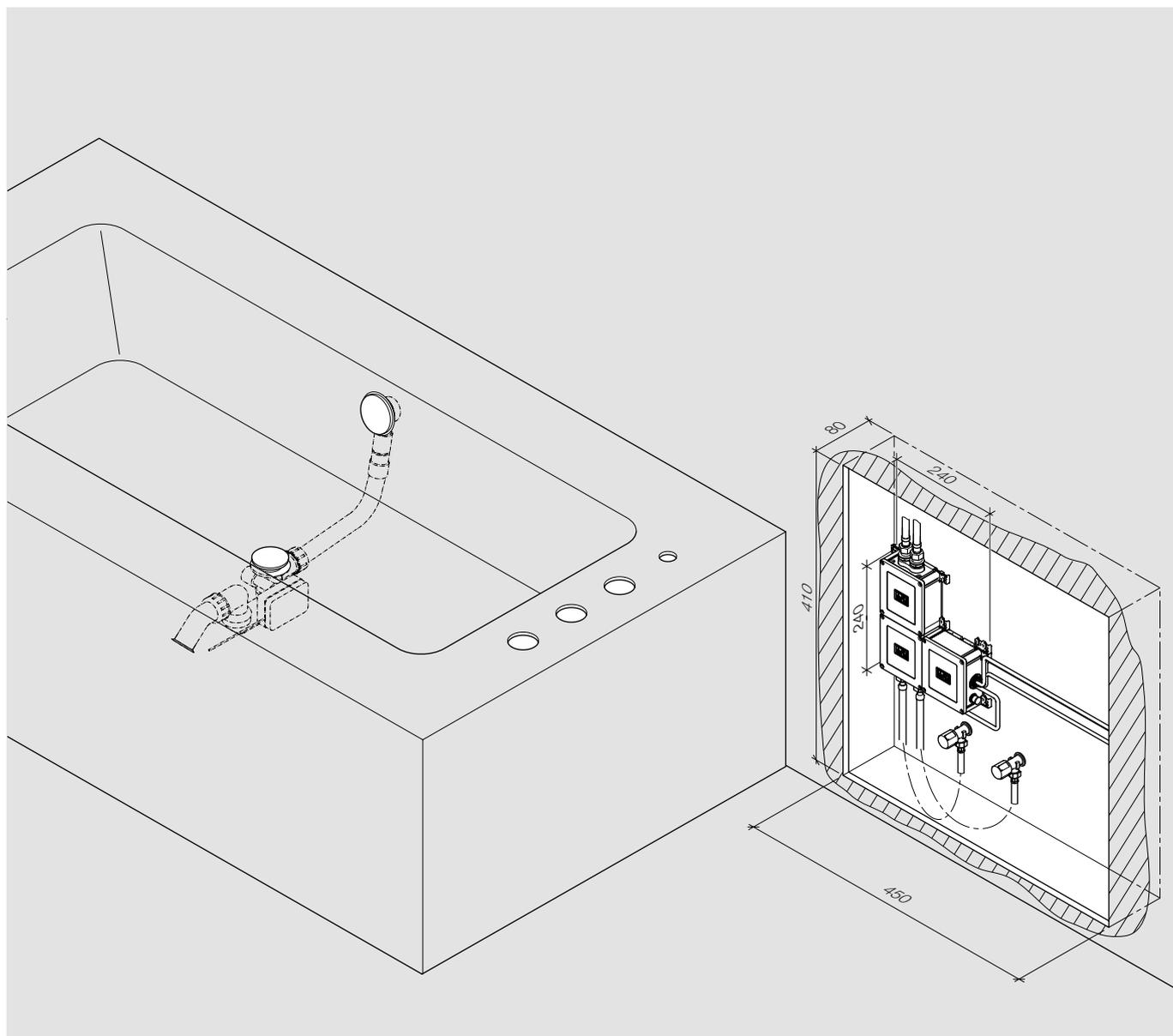
Washbasin	Bath Version A
for 1 outlet point	Bath Version B
Washbasin	BATH VERSION C
for 2 outlet points	Bidet
Shower	

Version C



The distance between the control elements must not be less than 90 mm (center to center). The concealed rough parts for electronic control elements require a hole diameter of 56 mm (A). The rough parts are partially covered by tiles. The tile requires a hole of 42 x 42 mm (B) - tile thickness: min. 7 - max. 35 mm. When using natural stone, Corian or similar materials, the deck mounted control element can be mounted without concealed rough parts. In that case a hole diameter of 35 mm (C) is required and the thickness of the material is min. 20 mm - max. 40 mm.

Components bath

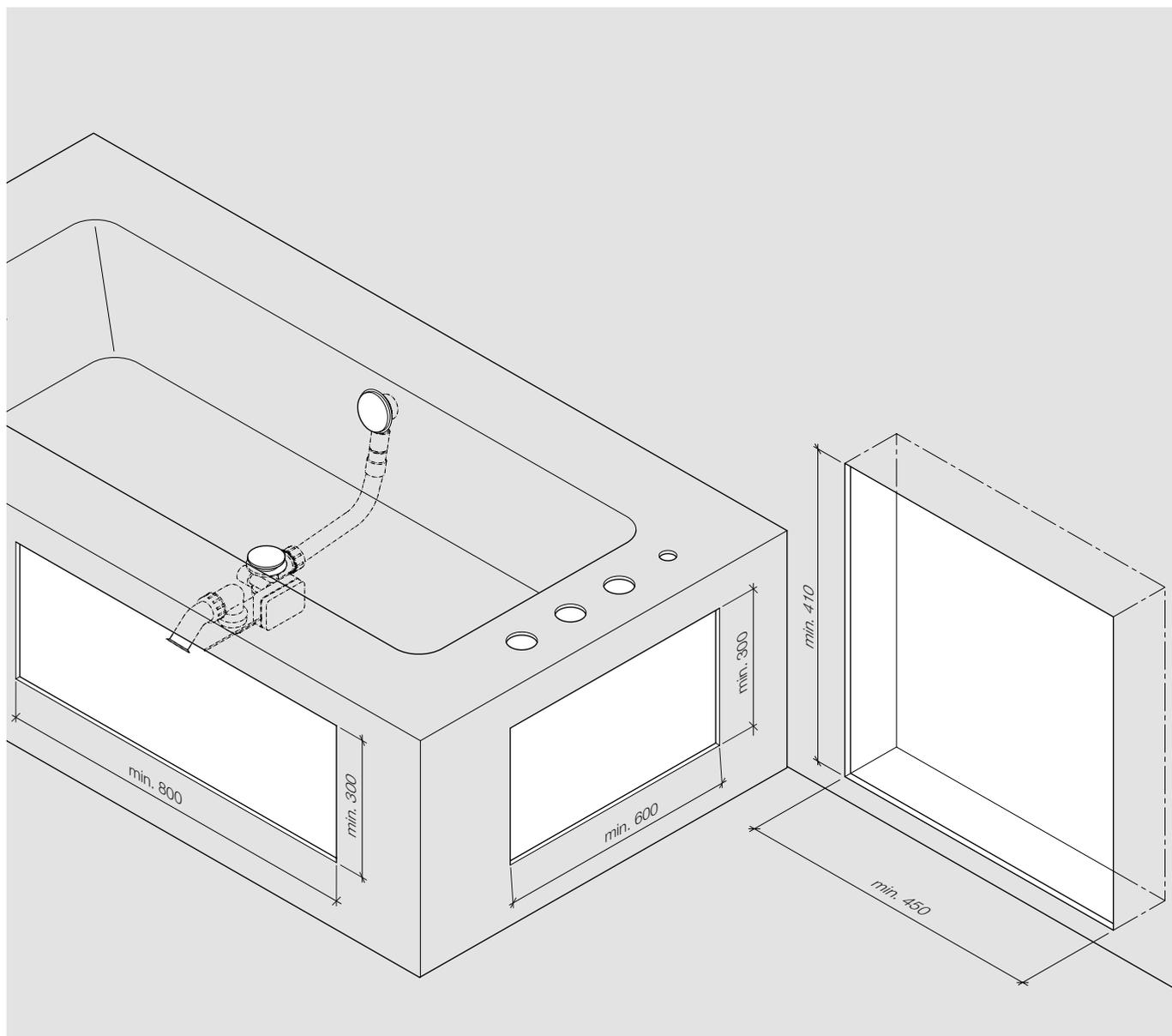


This example shows the required space of the SMART SET components. The dimensions include the necessary space for components as well as space required for installation and connections.



- DIN VDE 0100, PART 701 compliant safety zones. Please conform to national statutory regulations, where different.
- The power supply has to be installed outside of safety zone 2 in a sub distribution board.
- The protection rating of the individual components has to be noted during installation and is only valid when installed correctly.
- Control elements, hand shower set and eVALVE are operated through safety extra-low voltage (SELV) and can be installed inside safety zone 1.

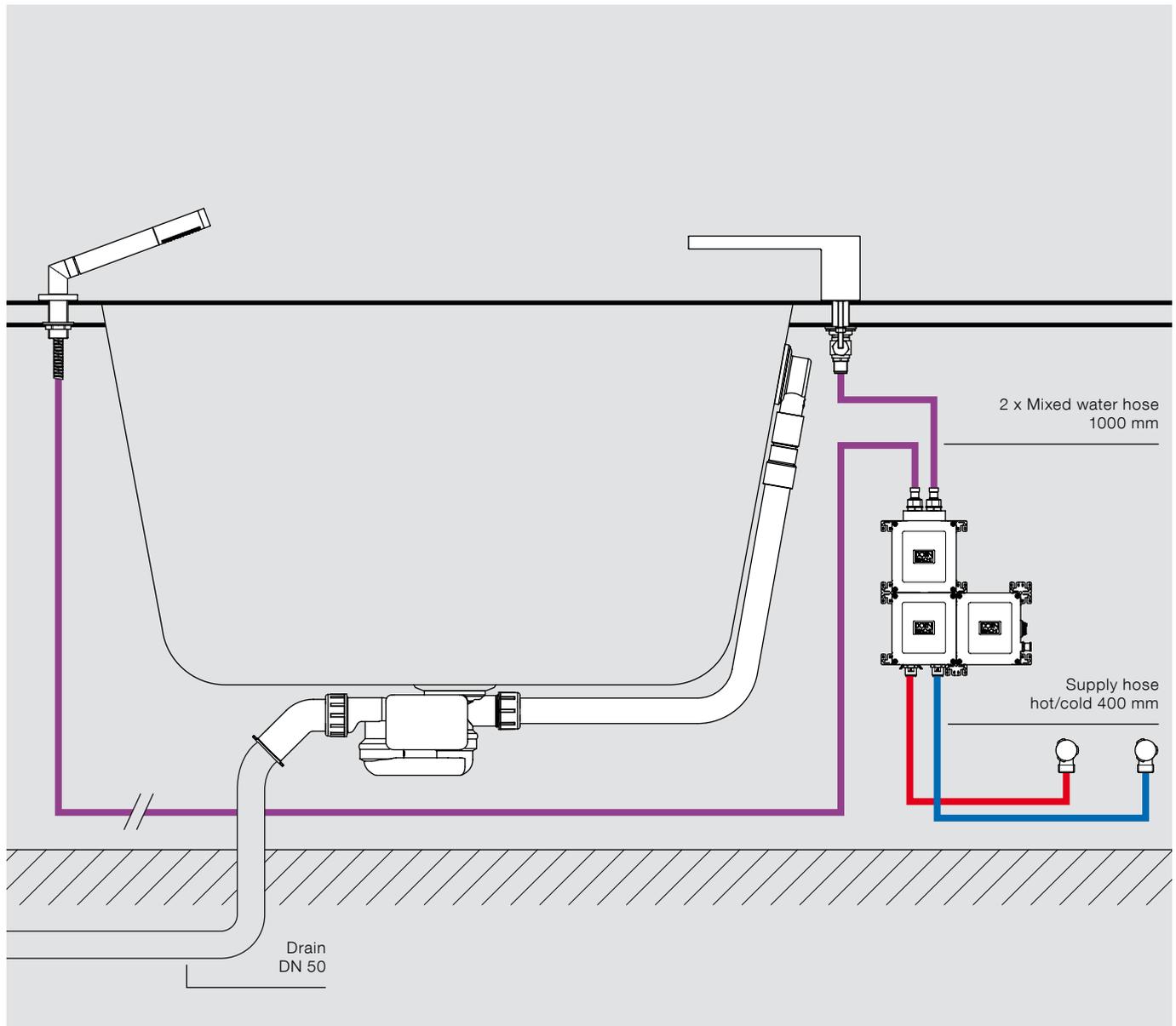
Access bath



The SMART SET components (SMART TOOLS, control and distribution unit, outlets, pop-up waste and overflow) have to be accessible for the installation as well as service after the installation.

- Access panel on the side for control elements and pop-up waste and overflow (min. 800 x 300 mm)
- If access panels from the side is not sufficient, another method of access from above (e.g. with Perfecto installation frame 12 630 970 90) has to be provided for.
- A separate access panel for the pop-up waste and overflow may be required

Water- / wastewater installation bath

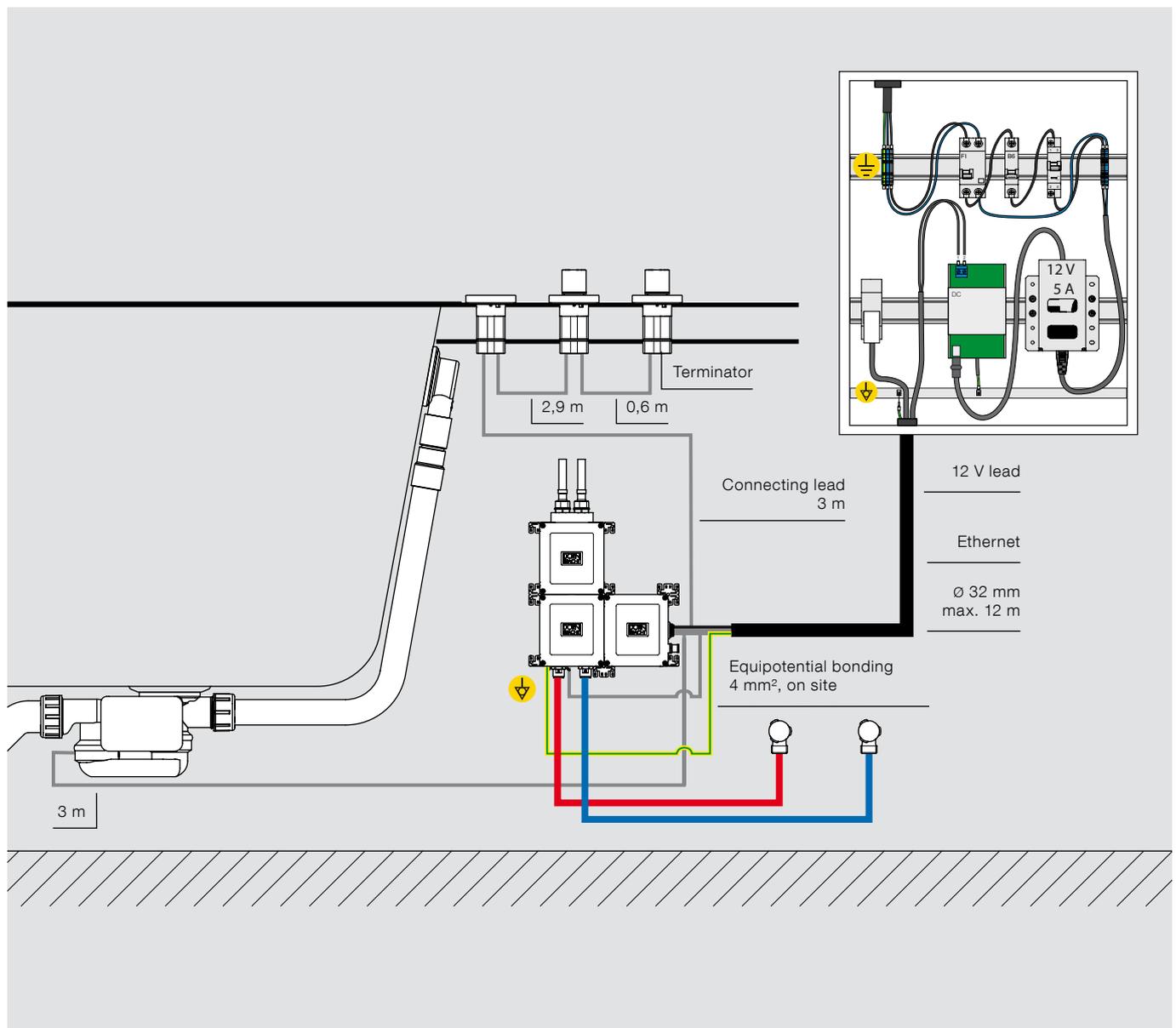


Compliance with national requirements for drinking water installations is mandatory. The supplied angle valves with filter have to be used. These special angle valves reliably protect the eVALVE from dirt and debris.

In case the hoses are extended on site, a cross-section reduction must be avoided

PLEASE ALSO REFER TO THE PLANNING INFORMATION

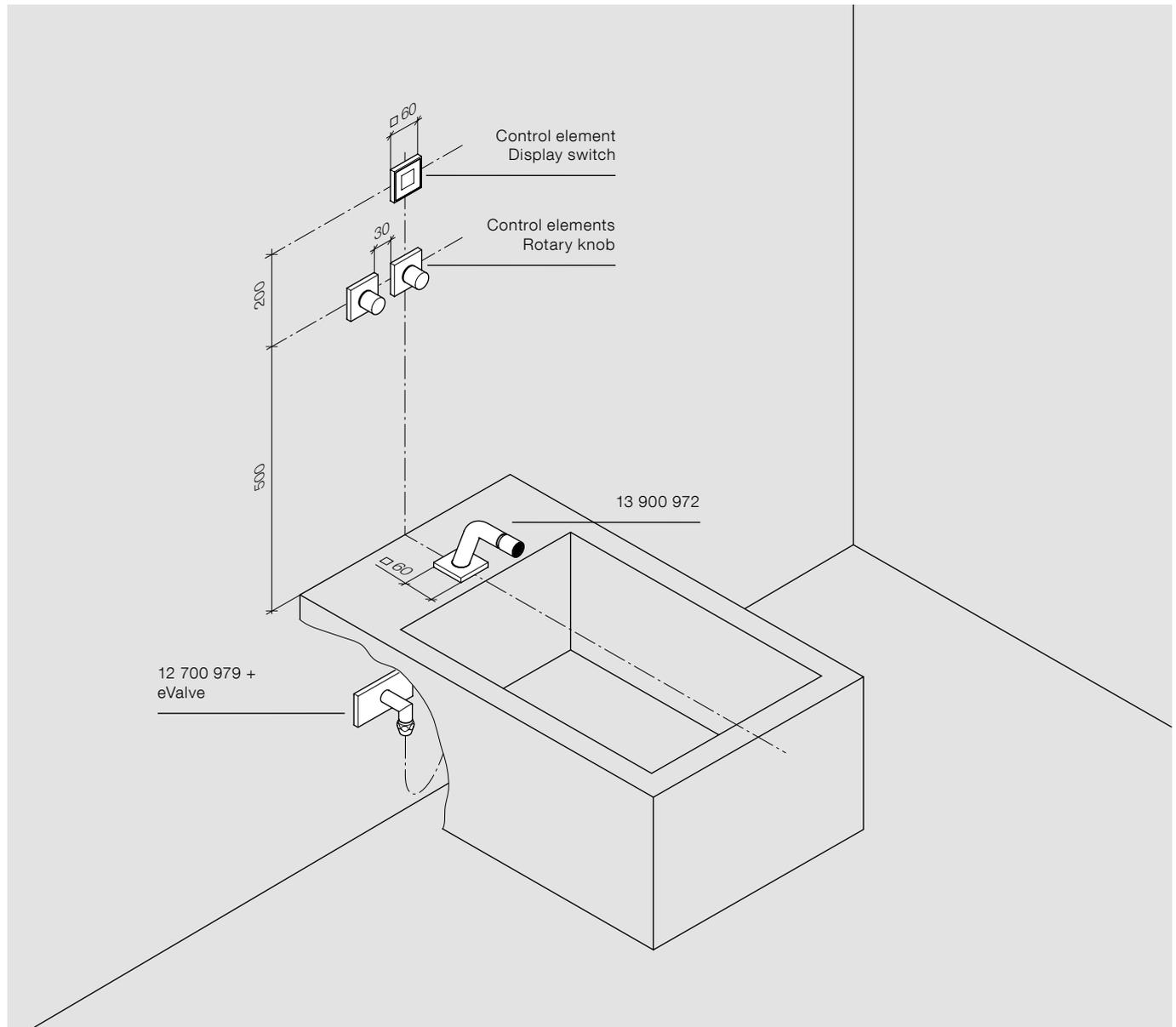
Electrical installation bath



Only connect to the electricity supply when the device is voltage-free. Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100. Please conform to national statutory regulations, where different. The power supply and the DC-filter are to be installed in a sub distribution board. The electronic valve (eVALVE) has a connection for an equipotential bonding lead which must be connected and fixed. The connection of an equipotential bonding cable (4mm²) to both concealed rough parts is mandatory. The supplied Ethernet cable can be used to connect the Dornbracht components to a network. A network outlet according to TIA 568A is necessary to connect SENSORY SKY to a network. The local network has to be behind a router with firewall. We recommend setting up a VLAN if there is more than one Dornbracht solution in a local network. The customer must provide the following circuit-breakers and electrical components: Earth leakage circuit breaker (30 mA, 2-pin, type A), safety cut-out (6 A, type B), equipotential busbar in sub distribution board, equipotential bonding (4 mm²) for concealed rough parts eVALVE

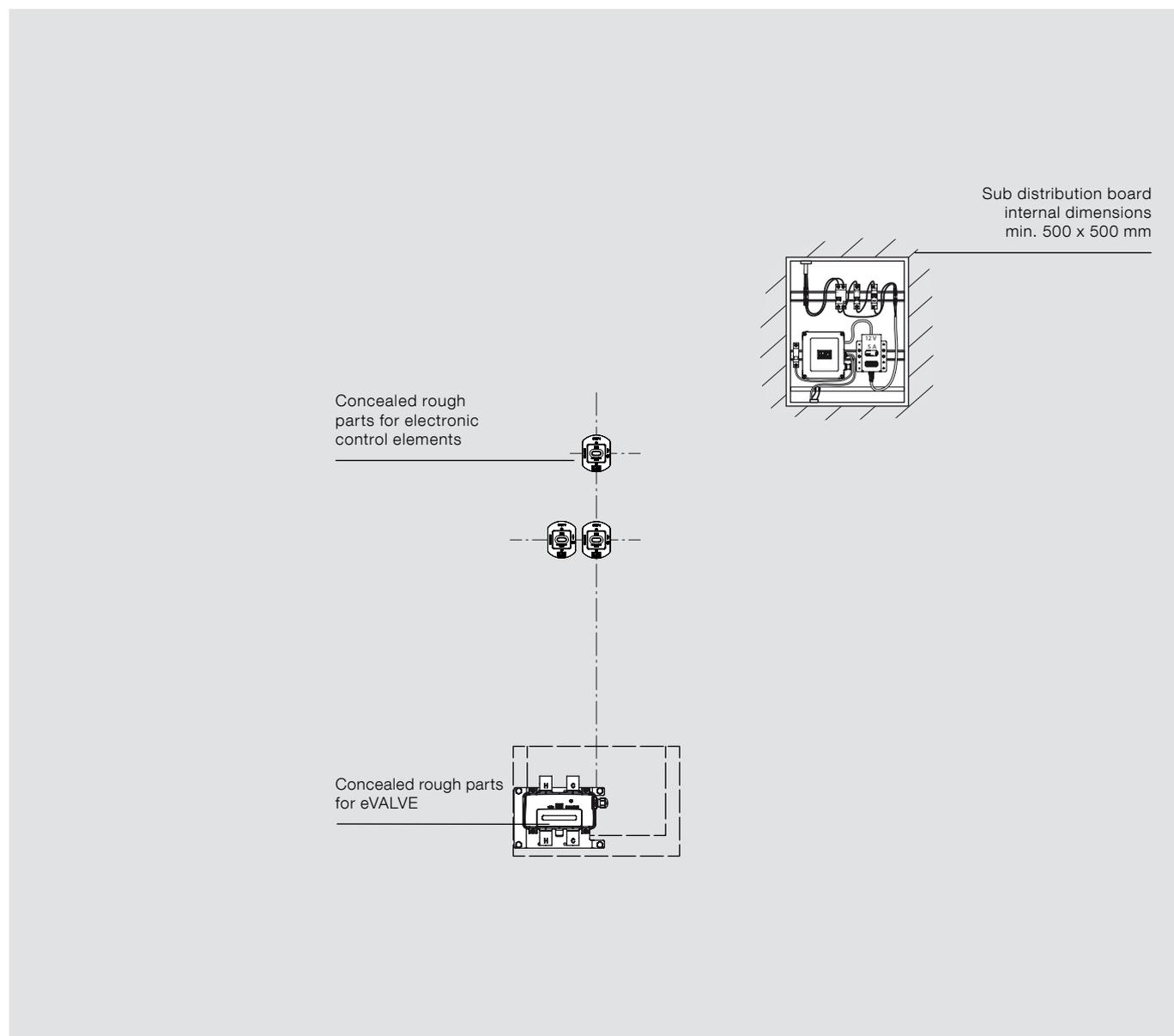
POSITIONING RECOMMENDATIONS	Installation	Washbasin	Bath Version A
Components	Data and standards	for 1 outlet point	Bath Version B
Access	Product overview	Washbasin	Bath Version C
	Checklists	for 2 outlet point	BIDET

Bidet



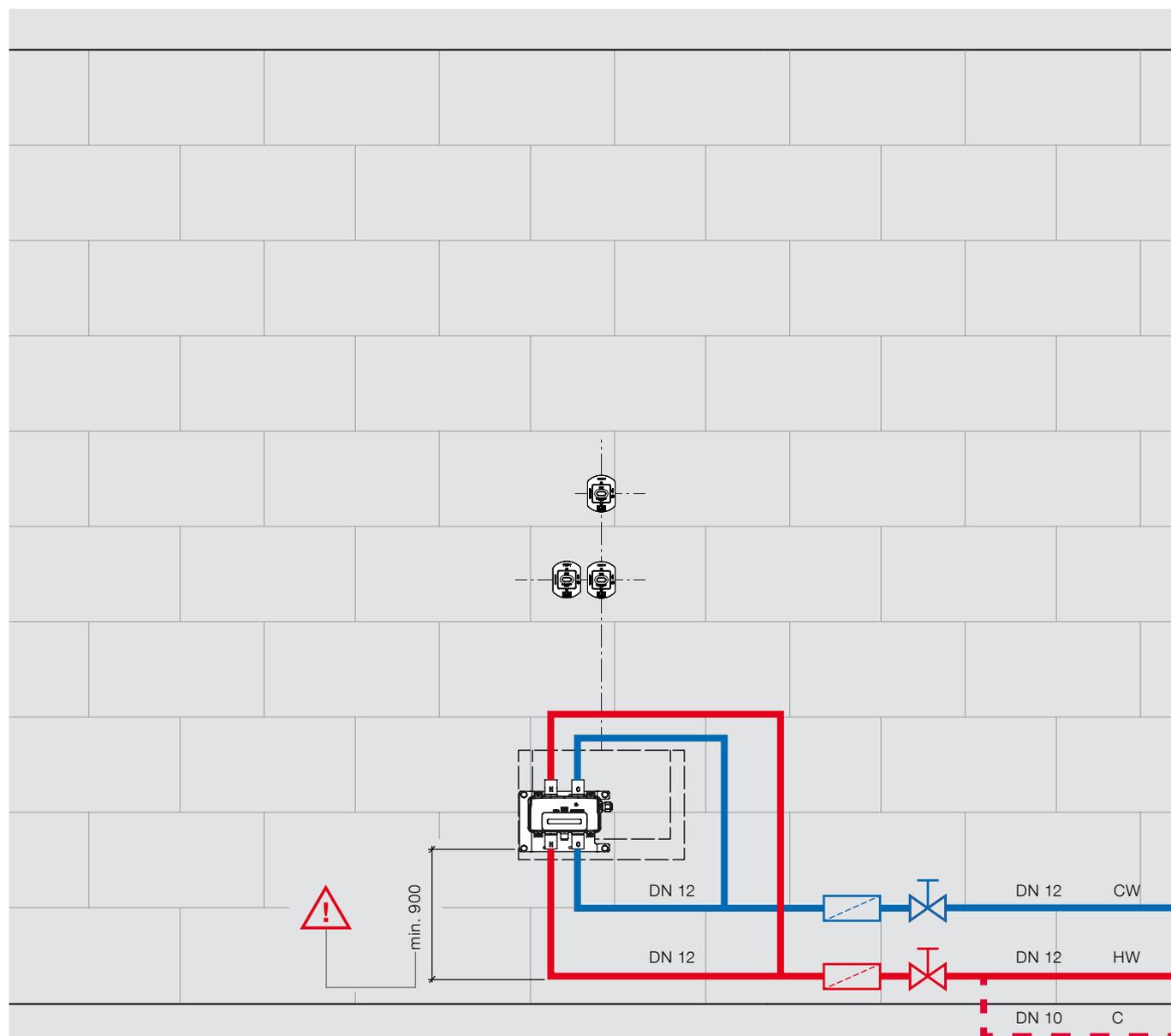
The recommended height for the rotary knob and the hand shower set on the wall is 500 mm measured from the top of the bidet. The recommended distance in height between the display switch is 200 mm. All measurements can be varied and customized according to the specific needs of the application. The horizontal and vertical distance between the control elements is 90 mm (center to center) and must not be less.

Concealed rough parts and peripheral equipment



- DIN VDE 0100, PART 701 compliant safety zones. Please conform to national statutory regulations, where different.
- The power supply has to be installed outside of safety zone 2 in a sub distribution board.
- The protection rating of the individual components has to be noted during installation and is only valid when installed correctly.
- Control elements and eVALVE are operated through safety extra-low voltage (SELV) and can be installed inside safety zone 1.

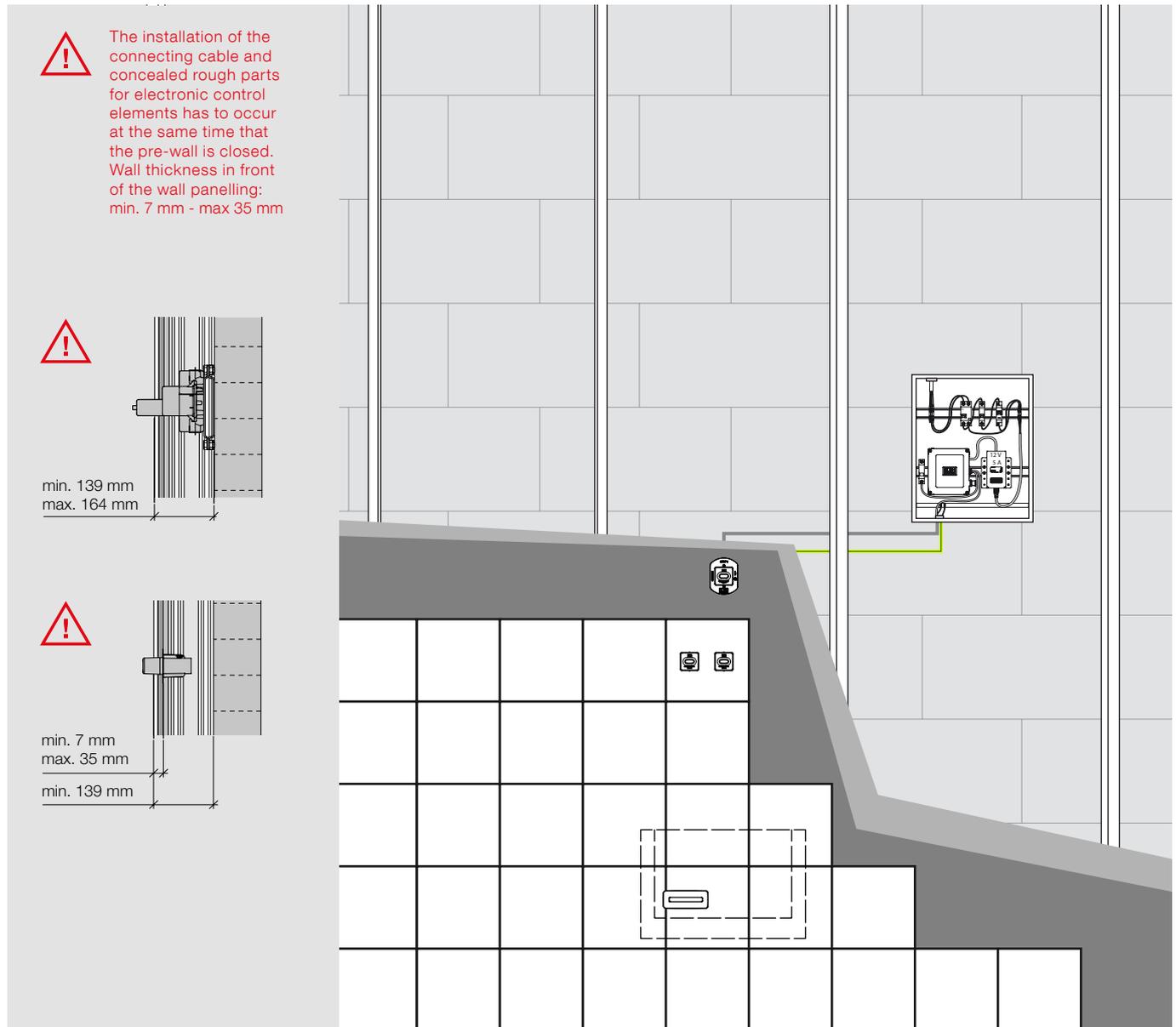
Water installation



- Separate shutoffs (DN 20) and filter (DN 20) for hot and cold water pipes are supplied with the product
- Separate shutoffs (DN 20) and filter (DN 20) for hot and cold water pipes have to be positioned to be accessible at all times
- With a circulation pipe, the minimum distance to the eVALVE of the hand shower set must be 900 mm.
- The nominal diameter (DN 12/10) has to be adhered to for both pipes and fittings.

PLEASE ALSO REFER TO THE PLANNING INFORMATION

Pre-wall installation bidet



The drywall has to meet quality standard Q3 (no visible gaps and closed pores). An installation with a pre-wall system in front of the wall is mandatory due to the minimum installation depth and the installation method of the concealed rough parts for electronic control elements. The proper installation of a pre-wall system enables compliance with on-site requirements with fire protection, heat and noise insulation. Pre-wall installation systems are available from various manufacturers. The thickness of the wall covering (tile, stone etc.) in front of the dry wall panelling (gypsum cardboard) around the rough parts for electronic control elements is min. 7 - max 35 mm.

Planning information

Plumbing

For water connection (HW + CW) adhere to the nominal diameter of the pipe (see water installation - washbasin, shower, bath, bidet).

The nominal diameter (DN 20) has to be adhered to for both pipes and fittings.

The supplied shutoffs, filters and angle valves have to be positioned to be accessible at all times.

A pressure reducing valve and a main filter have to be provided by the customer (installed after the water meter).

A min. distance for a circulation pipe of 900 mm from the eVALVE or 600 mm from the angle valve is required if a hot water circulation system is installed.

Calculate the piping according to DIN 1988, EN 806.

Pressure test (mandatory) the entire installation (without angle valves) with 1.5 times of the maximum operating pressure. Please refer to the current pressure test guidelines depending on the pipe material used (e.g. EN 806-4 / DIN 1988-2). Compile a test report.

The complete installation has to be flushed with clean water, e.g. EN 806-4 / DIN 1988-2). Compile a flushing report. Flushing has to occur prior to installing the SMART SETS installation and initial start-up.

An installation with a pre-wall system in front of the wall is mandatory if control elements (SMART TOOLS) are mounted on the wall. The installation of the connecting cable and concealed rough parts for electronic control elements has to occur at the same time that the pre-wall is closed.

Application area

The products are not meant to be used outside. Consult with Dornbracht if you plan to use the product in steam, chlorine or saline environments.

Water hardness

Recommended water hardness: 5-6 °e.
If your water is harder, install a water softening system into the feed pipes.

Hot water storage

For the optimum choice of hot water storage device – taking into consideration additional drawing-off points and parallel usage – you need to assess the specific demand (e.g. according to DIN 4708-2).

A thermostatic mixer has to be installed after the boiler if the hot water temperature of the boiler is set to more than 60 °C. A manual or automatic bypass for the thermostatic mixer has to be installed if regular thermal disinfection is required.

Drain

A specific calculation that takes into consideration the flow rate of all the outlet points is required for optimum floor drain sizing (calculated according to e.g. DIN 1986). Drainage pipe DN 50.

Access

The eSET bath components have to be accessible for the installation as well as service after the installation. An access panel is required (see access bath).

Maintenance

Depending on the local operational conditions the wire basket and the seal (for filters in angle valves, separate filters as well as filters provided on site) must be subjected to regular controls. If required, the wire basket has to be cleaned or replaced. Regarding inspection and maintenance, we recommend the conclusion of a service contract between the user of the system and the installation company.

Planning information

Electrical

Combine SMART SETS only with original Dornbracht components.

The customer must provide the following circuit-breakers and electrical components:

- Equipotential bonding busbar in subdistribution board – a mere connection to metal piping is not permissible
- Equipotential bonding (4 mm²)
- Earth leakage circuit breaker (30 mA, 2-pin, type A)
- Safety cut-out (6 A, type B).
- circuit breaker (16A, type 1S)

For eSET wash basin

- Power outlet

For eSET shower / bath / bidet

- subdistribution board with enough space for the electrical components

Only connect to the electricity supply when the device is voltage-free. Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100. Please conform to national statutory regulations, where different. The usage and the connection of equipotential bonding (4 mm²) is mandatory.

eSETS must be connected via a residual current circuit-breaker (rated differential current up to 30 mA). The electronic valve (eVALVE) has a connection for equipotential bonding, to which the equipotential bonding must be connected and fixed.

An uninterruptible power supply (UPS) is recommended.

Please note cable length for the positioning of the components and the sub distribution board (see electrical installation washbasin, shower, bath, bidet)

Relevant extension cables are available for the installed connecting leads, if required. But the total length of all connecting leads (from motherboard to the last element) must not be more than 30 m.

Technical data

Sanitär

Flow pressure	Wash basin	Shower	Bath	Bidet
Minimum flow pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Maximum flow pressure	4,0 bar	4,0 bar	4,0 bar	4,0 bar
Maximum difference in flow pressure between hot and cold water	1,0 bar	1,0 bar	1,0 bar	1,0 bar
Recommended flow pressure	3,0 bar	3,0 bar	3,0 bar	3,0 bar

Permissible operating temperatures

Hot water temperature range	50-60 °C	50-60 °C	50-60 °C	50-60 °C
Thermal disinfection (3-10 Min.)	75 °C	75 °C	75 °C	75 °C
Cold water temperature range	5-20 °C	5-20 °C	5-20 °C	5-20 °C
Anti-scald protection	43 °C	43 °C	43 °C	43 °C

Electrical

	Wash basin	Shower	Bath	Bidet
Input voltage power supply unit	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC
Input frequency power supply unit	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Output voltage power supply unit	12 VDC	12 VDC	12 VDC	12 VDC
Output current	1,5 A	5A	5A	5A
Maximum power consumption	18 W	60 W	60 W	60 W
Power consumption (in operation)	12 W	24 W	20 W	20 W
System of protection power supply unit	IP X0	IP X0	IP X0	IP X0
Nominal current	0,6 A	1,2 A	1,1 A	1,1 A

Display switch + rotary knob control elements

Input voltage	12 VDC	12 VDC	12 VDC	12 VDC
Power consumption (sleep mode)	<3 W	<5 W	<3 W	<3 W
System of protection	IP X4	IP X4	IP X4	IP X4
Maximum ambient temperature	35 °C	35 °C	35 °C	35 °C
Minimum ambient temperature	5 °C	5 °C	5 °C	5 °C

Control unit (with eVALVE)

Equipotential bonding	4 mm ²	4 mm ²	4 mm ²	4 mm ²
System of protection	IP X4	IP X4	IP X4	IP X4
System of protection eVALVE concealed rough	-	IP 67	-	IP 67
Maximum ambient temperature	40 °C	40 °C	40 °C	40 °C
Minimum ambient temperature	5 °C	5 °C	5 °C	5 °C
Marking	CE	CE	CE	CE

Technical data

General

Ambient temperatures	Wash basin	Shower	Bath	Bidet
Max. storage	35 °C	35 °C	35 °C	35 °C
Min. storage	5 °C	5 °C	5 °C	5 °C

Store somewhere dust-free and dry!

Provided by the customer:

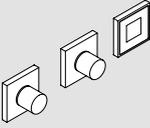
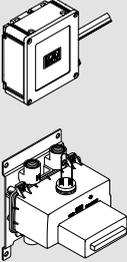
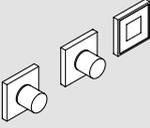
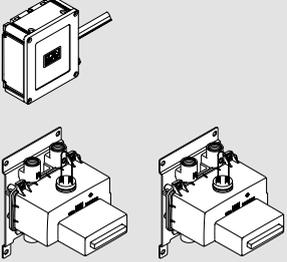
Minimum space requirement in the sub distribution board	-	500 x 500 mm min. internal	500 x 500 mm min. internal	500 x 500 mm min. internal
Earth leakage circuit breaker, 30 mA, 2-pin, type A	X	X	X	X
Safety cut-out, 6 A, type B	X	X	X	X
Equipotential bonding (4 mm ²) for eVALVE Box	X	X	X	X
Conduit	-	1 x 35 mm	1 x 35 mm	-

Please see pages for electrical installation (wash basin, shower, bath, bidet) for the cable length of the connecting leads of the control elements. A main filter (back-flushable) is recommended in addition to the supplied filters.

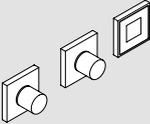
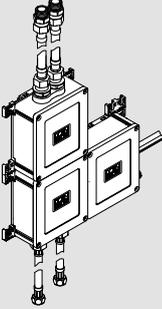
SMART SET

42 751 979	Washbasin for 1 outlet point SMART TOOLS Surfacemounted installation	chrome platinum matte platinum cyprum	42 751 979-00 42 751 979-06 42 751 979-08 42 751 979-49
35 022 970 90	eSET washbasin for 1 outlet point		35 022 970 90
42 751 979	Washbasin for 2 outlet points SMART TOOLS Surfacemounted installation	chrome platinum matte platinum cyprum	42 751 979-00 42 751 979-06 42 751 979-08 42 751 979-49
35 024 970 90	eSET washbasin for 2 outlet points		35 024 970 90

SMART SET

42 760 979	Bidet for 1 outlet point SMART TOOLS Concealed installation	chrome platinum matte platinum cyprum	42 760 979-00 42 760 979-06 42 760 979-08 42 760 979-49
	eSET bidet for 1 outlet point	35 023 970 90	
35 023 970 90			
			
42 760 979	Bidet for 2 outlet points SMART TOOLS Concealed installation	chrome platinum matte platinum cyprum	42 760 979-00 42 760 979-06 42 760 979-08 42 760 979-49
	eSET bidet for 2 outlet points	35 026 970 90	
35 026 970 90			
			

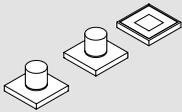
SMART SET

42 760 979	Bath for 2 outlet points incl. electronic pop-up waste and overflow set SMART TOOLS Concealed installation	chrome platinum matte platinum cyprum	42 760 979-00 42 760 979-06 42 760 979-08 42 760 979-49
			
35 025 970	eSET Bath for 2 outlet point	chrome platinum matte platinum cyprum	35 025 970-00 35 025 970-06 35 025 970-08 35 025 970-49
			

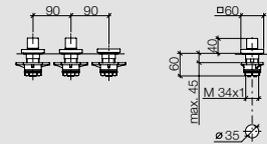
SMART SET WASHBASIN FOR 1 OUTLET POINT

SMART TOOL

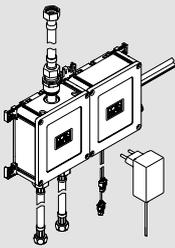
Electronic control elements
Surfacemounted installation



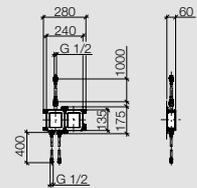
- 2x twist-action control elements with electronic control for temperature and volume, each 60 x 60 mm
- 1x display switch control elements with electronic control, each 60 x 60 mm
- Preset temperature and volume
- Button lock for cleaning
- Pause function
- Update capability
- Service displays
- IP X4



eSET Washbasin for 1 outlet point



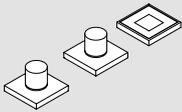
- ready-to-use control unit for wall mounting incl. 1 x eVALVE electronic valve for water temperature and volume adjustment, (240 mm x 135 mm x 60 mm)
- 2x pressure hose, 1/2 x 1/2 threads x 400 mm
- 100-240 V AC / 12 V DC, 50-60 Hz, 18 W power supply unit, incl. country-specific adapter set
- Connecting cable with preinstalled plugs for control elements (1x 1,5 m, 1x 0,6 m)
- IP X4



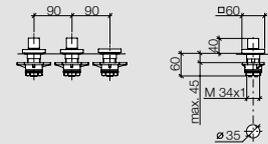
SMART SET WASHBASIN FOR 2 OUTLET POINTS

SMART TOOL

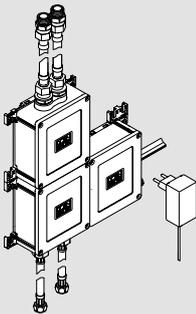
Electronic control elements
 Surfacemounted installation



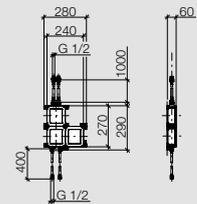
- 2x twist-action control elements with electronic control for temperature and volume, each 60 x 60 mm
- 1x display switch control elements with electronic control, each 60 x 60 mm
- Preset temperature and volume
- Button lock for cleaning
- Pause function
- Update capability
- Service displays
- IP X4



eSET Washbasin for 2 outlet points



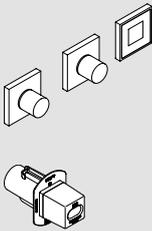
- ready-to-use control and distribution unit for wall mounting incl. 1 x eVALVE electronic valve for water temperature and volume adjustment and electronic, two-way diverter (240 mm x 270 mm x 60 mm)
- 2 x pressure hoses, 1/2 x 1/2 threads x 400 mm
- 100-240 V AC / 12 V DC, 50-60 Hz, 18 W power supply unit, incl. country-specific adapter set
- Connecting cable with preinstalled plugs for control elements (1x 1,5 m, 1x 0,6 m)
- IP X4



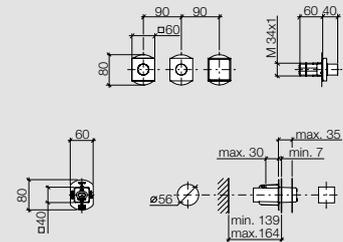
SMART SET BIDET FOR 1 OUTLET POINT

SMART TOOLS

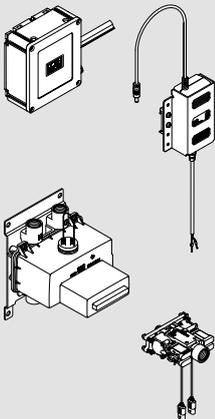
Electronic control elements
 Concealed installation



- 2x twist-action control elements with electronic control for temperature and volume, each 60 x 60 mm
- 1x display switch control elements with electronic control, each 60 x 60 mm
- Preset temperature and volume
- Button lock for cleaning
- Pause function
- Update capability
- Service displays
- IP X4



Bidet eSET for 1 outlet point



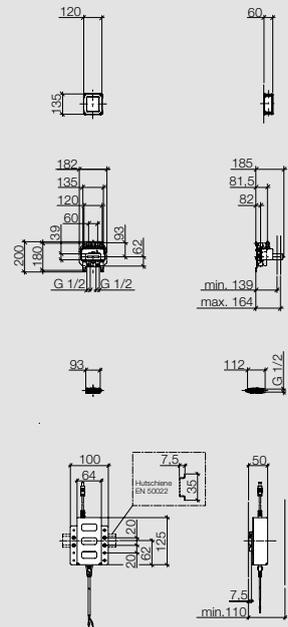
- ready-to-use control unit for DIN rail mounting TS 35 (120 mm x 135 mm x 60 mm)
- 1x eVALVE electronic valve for water temperature and volume adjustment
- 1x Concealed rough parts for eVALVE
- Power supply unit 100 - 240 V AC / 12 V DC, 50 - 60 Hz, 60 W

Technical data

- Minimum flow pressure 2.5 bar
- Max. flow pressure 4 bar
- Voltage supply 100 - 240 V AC / 12 V DC

Planning information

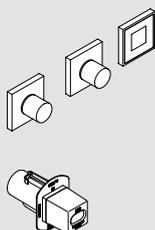
- Customer must provide an earth leakage circuit breaker
 - Earthing cable provided by customer
- Detailed planning information and technical data can be found at www.dornbracht-professional.com



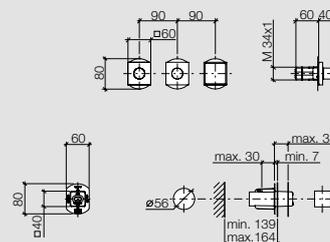
SMART SET BATH FOR 2 OUTLET POINTS

SMART TOOLS

Electronic control elements
 Concealed installation



- 2 x twist-action control elements with electronic control for temperature and volume, each 60 x 60 mm
- 1 x display switch control element with electronic control 60 x 60 mm
- 3x concealed box for fitting into the pre-wall installation or in the bath rim, hole diameter 56 mm, recess depth 75 mm
- preset temperature and volume
- Button lock for cleaning
- Pause function
- Update capability
- Service displays



Bath eSET for 2 outlet points

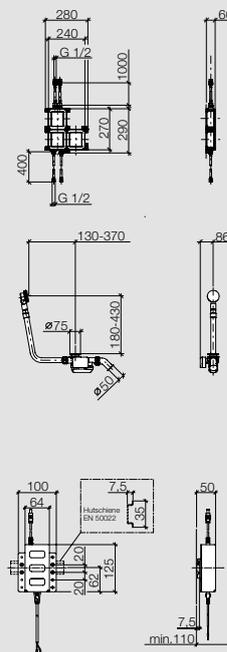
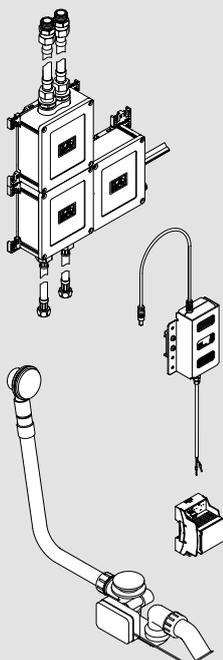
- ready-to-use control and distribution unit for wall mounting incl. 1 x eVALVE electronic valve for water temperature and volume adjustment and electronic, two-way diverter (240 mm x 270 mm x 60 mm)
- electronic pop-up waste and overflow set
- 2 pressure hoses, 3/8 x 1/2 threads x 500 mm
- Power supply unit 100 - 240 V AC / 12 V DC, 50 - 60 Hz, 60 W

Technical data

- Minimum flow pressure 2.5 bar
- Max. flow pressure 4 bar
- Voltage supply 100 - 240 V AC / 12 V DC

Planning information

- Customer must provide an earth leakage circuit breaker
 - Earthing cable provided by customer
- Detailed planning information and technical data can be found at www.dornbracht-professional.com



Planning advice – Smart Set

Use this checklist to verify that you have all the information you need from your SMART SET consultations. Please also see the checklists for shower and bidet, wash basin and bath on the following pages.

The following items are particularly important:

General

- Combine SMART SETS only with original Dornbracht components

- Please conform to national statutory regulations, where different

- Conform to noise insulation, heat insulation and fire protection regulations

- Application area
 - The products are not meant to be used outside
 - Consult with Dornbracht if you plan to use the product in steam, chlorine or saline environments

- Recommended water hardness: 5-6 °e
 - If your water is harder, install a water softening system into the feed pipes

- Provide for a main filter (back-flushable) and a pressure reducing valve if necessary for the main water supply (e.g. according to DIN 1988)

- Calculate the drain size (e.g. according to DIN 1986) taking into consideration all the outlet points

Electrical

- Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100

- Conform to DIN VDE 0100, PART 701 compliant safety zones

- Only connect to the electricity supply when the device is voltage-free

- Space required for all components in the sub-distribution board: approx. 500 x 500 mm (internal dimensions)

- The customer must provide the following circuit-breakers and electrical components
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B),
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board
 - Equipotential bonding (4 mm²) for eVALVE

- Network outlet according to TIA 568A

- Power Outlet

- Isolated ground receptacle (only wash basin)

- The connection of an equipotential bonding cable (4mm²) per eVALVE is mandatory

- The equipotential bonding cable is to end up in the sub-distribution board

- A mere connection of the equipotential bonding cable to metal piping is not permissible

- The installation of the connecting cable and concealed rough parts for electronic control elements has to occur at the same time that the pre-wall is closed

- Please note cable length and conduit diameter (see page for electrical installation washbasin, shower, bath, bidet)

Planning advice – Smart Set

Use this checklist to verify that you have all the information you need from your SMART SET consultations. Please also see the checklists for shower and bidet, wash basin and bath on the following pages.

The following items are particularly important:

Plumbing

-
- Hot water storage
 - Calculate optimum choice of hot water storage device (e.g. according to DIN 4708, DIN 1988-20)
 - Assessing the specific demand – taking into consideration additional drawing-off points and parallel usage – is mandatory
 - A thermostatic mixer has to be installed after the boiler if the hot water temperature of the boiler is set to more than 60 °C.
 - A manual or automatic bypass of the thermostatic mixer has to be installed if regular thermal disinfection is required.

 - Calculate the piping (e.g. according to DIN 1988-3 / EN 806-3)

 - The nominal diameter DN 20, DN 15, DN 12 and DN 10 has to be adhered to for both pipes and fittings

 - See page water installation for individual diameter

 - Shut offs are supplied with the product
 - The components have to be positioned to be accessible at all times

 - Filters or angle valves with filter are supplied with the product
 - The components have to be positioned to be accessible at all times

 - Pressure test (mandatory) the entire installation (without angle valves) with 1.5 times of the maximum operating pressure
 - Please refer to the current pressure test guidelines depending on the pipe material used (e.g. EN 806-4 / DIN 1988-2)
 - Compile a test report

 - The complete installation has to be flushed with clean water (e.g. EN 806-4 / DIN 1988-2) up to the last outlet
 - Adhere to the applicable guidelines
 - Compile a flushing report
 - Flushing has to occur prior to installing the SMART SETS and initial start-up

 - Hot water temperature range in operation 50-60 °C

 - Thermal disinfection (3-10 Min.) in operation max. 75 °C

 - Cold water temperature range in operation 5-20 °C

 - Flow pressure in operation 2,5 - 4,0 bar

 - Recommended flow pressure in operation 3,0 bar

 - Maximum difference in flow pressure between hot and cold water in operation max. 1,0 bar

Planning advice – shower and bidet

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Plumbing

- Calculate the piping
- Calculate optimum choice of hot water storage device
- Calculate optimum floor drain sizing
- Water hardness: 5 - 6 °e
- Leaktest entire installation
- Pipe flushing entire installation
- The shut offs for hot and cold water pipes (DN 20) have to be positioned to be accessible at all times
- The filters for hot and cold water pipes (DN 20) have to be positioned to be accessible at all times
- Piping as a ring line as shown in installation drawing
- A min. distance for a circulation pipe of 900 mm from the eVALVE is required if a hot water circulation system is installed
- Hot water temperature range in operation 50-60 °C
- Cold water temperature range in operation 5-20 °C
- Flow pressure in operation 2,5 - 4,0 bar
- Recommended flow pressure in operation 3,0 bar
- Maximum difference in flow pressure between hot and cold water in operation max. 1,0 bar

Dry wall rough-in

- An installation with a pre-wall system in front of the wall is mandatory due to the minimum installation depth and the installation method of the concealed rough parts for electronic control elements
 - Installation depth for concealed rough parts for eVALVE: min. 139 mm - max. 164 mm
 - Installation depth for concealed rough parts for electronic control elements: min. 139 mm - max. 164 mm
- Hole diameter for concealed rough parts for electronic control SMART TOOLS: 56 mm
- The installation of the connecting cable and concealed rough parts for electronic control elements has to occur at the same time that the pre-wall is closed

Planning advice – shower and bidet

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Electrical

-
- Distance between concealed rough parts for eVALVE and sub distribution board: max. 12 m

 - Please note the space requirement for electronic components in sub distribution board including power supply unit and control unit

 - Ethernet cable is to remain in the sub distribution board

 - Customer is to supply conduit according to installation schema

 - Customer has to supply an equipotential bonding cable 4 mm² per eVALVE

 - The equipotential bonding cable 4 mm² of the eVALVE is to end up in the sub-distribution board

 - The total length of all connecting leads (from motherboard to the last element) must not be more than 30m

 - Install the terminating resistor (Terminator) on the last element in the loop connected via connecting cables

 - All connecting leads have to be installed in a way that they can be pulled out of the wall at least 300 mm in order to service components

 - The customer must provide the following electrical components:
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B),
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board
 - Equipotential bonding (4 mm²)

 - Network outlet

Planning advice – wash basin

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Plumbing

- Calculate the piping
- Calculate optimum choice of hot water storage device
- Calculate optimum floor drain sizing
- Water hardness: 5 - 6 °e
- Leaktest entire installation
- Pipe flushing entire installation
- The angle valves with filter for hot and cold water DN 12 (1/2") have to be positioned to be accessible at all times
- A min. distance for a circulation pipe of 600 mm from the eValve is required if a hot water circulation system is installed
- Hot water temperature range in operation 50-60 °C
- Cold water temperature range in operation 5-20 °C
- Flow pressure in operation 2,5 - 4,0 bar
- Recommended flow pressure in operation 3,0 bar
- Maximum difference in flow pressure between hot and cold water in operation max. 1,0 bar

Electrical

- Please note space requirement for control and distribution unit under the wash basin
- Please note space requirement for electronic components in sub distribution board
- Ethernet cable is to remain with the control and distribution unit
- Customer has to supply an equipotential bonding cable 4 mm² per eVALVE
- The equipotential bonding cable 4 mm² of the eVALVE is to end up in the sub-distribution board
- Plan for power outlet
- Plan for multiple socket-outlet if necessary (to connect other electrical devices)
- Plan for network outlet
- Installed the terminating resistor (Terminator) on the last element in the loop connected via connecting leads
- The customer must provide the following electrical components:
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B)
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding (4 mm²)

Planning advice – bath

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Plumbing

- Calculate the piping
- Calculate optimum choice of hot water storage device
- Drainage capacity/connected rating 0.9 l/s
- Drainage pipe DN 50
- Water hardness: 5 - 6 °e
- Leaktest entire installation
- Pipe flushing entire installation
- The angle valves with filter for hot and cold water DN 12 (1/2") have to be positioned to be accessible at all times
- A min. distance for a circulation pipe of 600 mm from the angle valve is required if a hot water circulation system is installed
- Hot water temperature range in operation 50 - 60 °C
- Cold water temperature range in operation 5 - 20 °C
- Flow pressure in operation 2,5 - 4,0 bar
- Recommended flow pressure in operation 3,0 bar
- Maximum difference in flow pressure between hot and cold water in operation max. 1,0 bar

Dry wall rough-in

Depending on the installation Version A, B or C (see installation bath) the corresponding hole diameter for the control elements has to be chosen.

- Hole diameter SMART TOOLS min. 35 mm (Version A und C)
- An installation with a pre-wall system in front of the wall (Version B) is mandatory
- Installation depth for concealed rough parts for electronic control elements min. 139 mm - max. 164 mm (Version B)
- Hole diameter for concealed rough parts for electronic control SMART TOOLS 56 mm when installed in the wall
- The installation of the connecting cable and concealed rough parts for electronic control elements has to occur at the same time that the pre-wall is closed
- Install the terminating resistor (Terminator) on the last element in the loop connected via connecting leads
- Provide for access panel to install and service all components on the bathtub
- Please note space requirement for control and distribution unit near the bath
- Control and distribution unit has to be positioned to be accessible at all times

Planning advice – bath

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Electrical

-
- Please note space requirement for electronic components in sub distribution board including power supply unit and DC Filter

 - The customer must provide the following electrical components
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B)
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board
 - Equipotential bonding (4 mm²)
 - Network outlet

 - Customer has to supply an equipotential bonding cable 4 mm² per eVALVE

 - The equipotential bonding cable 4 mm² of the eVALVE is to end up in the sub-distribution board

 - Ethernet cable is to end up in the sub-distribution board

 - Install and test RJ45 plug on Ethernet cable

 - Power supply cable is to end up in the sub-distribution board

 - Distance between the control and distribution unit and the sub distribution board: max. 12 m

 - Customer is to supply conduit according to installation schema

 - The total length of all connecting leads (from motherboard to the last element) must not be more than 30 m

 - Install the terminating resistor (Terminator) on the last element in the loop connected via connecting cables

 - All connecting leads have to be installed in a way that they can be pulled out of the wall at least 300 mm in order to service components

Rough-in – shower and bidet

Use this checklist to verify that you have all the information you need from your SMART SET consultations. We recommend to check the rough installation at the same time that the walls are being closed. Please check the work of other trades at regular intervals. The following items are particularly important:

Plumbing

- Piping calculation present

- Hot water storage calculation present

- Drain size calculation present

- Leaktest protocol for entire installation present

- Flushing protocol for entire installation present

- Adhered to nominal diameter requirement
- Pipe system used (manufacturer):

- Shut offs for hot and cold water pipes (DN 20) installed in accessible area

- Filters for hot and cold water pipes (DN 20) installed in accessible area

- Piping installed as a ring line

- Adhered to min. distance for the circulation pipe (hot water circulation system) of 900 mm from the eVALVE

Dry wall rough-in

- Drywall and metal frame installed

- Checked min. rough in depth for eVALVE: min. 139 mm - max. 164 mm

- Checked min. rough in depth for SMART TOOL: min. 139 mm - max. 164 mm

- Hole with a 56 mm diameter in the dry panelling for concealed parts SMART TOOL

- Installed rough (level)

- Installed water protection sleeve (handed over to the tiler)

- Installed connection leads

Checklist Rough-in – Shower and bidet

Use this checklist to verify that you have all the information you need from your SMART SET consultations.

We recommend to check the rough installation at the same time that the walls are being closed.

Please check the work of other trades at regular intervals.

The following items are particularly important:

Elektro

-
- Checked distance between concealed rough part for eValve and sub distribution board : max 12 m

 - Checked for space requirements in the sub distribution board

 - Installed equipotential bonding (4 mm²) per eVALVE

 - Checked total length of all connection leads to be less than 30 m

 - Installed the terminating resistor (Terminator) on the last element in the loop connected via connecting cables

 - Installed all connecting leads to be pulled out off the wall at least 300 mm in order to service components

 - Installed electrical components in sub distribution board on TS 35 DIN rail
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B)
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board
 - Equipotential bonding (4 mm²)
 - Network outlet

 - Checked input voltage 230 V AC in sub distribution board

 - Checked output voltage 12 V DC

Checklist Rough-in – wash basin

Use this checklist to verify that you have all the information you need from your SMART SET consultations.

Please check the work of other trades at regular intervals.

The following items are particularly important:

Plumbing

- Piping calculation present

- Hot water storage calculation present

- Drain size calculation present

- Leaktest protocol for entire installation present

- Flushing protocol for entire installation present

- Adhered to nominal diameter requirement
- Pipe system used (manufacturer):

- Installed angle valves connection DN 12 (1/2") for hot and cold water pipes

- Installed filters for hot and cold water pipes (DN 20) in accessible area

- Piping installed as a ring line

- Adhered to min. distance for the circulation pipe of 600 mm from the angle valve (hot water circulation system)

Electrical

- Checked space for SMART TOOLS and hole size (min. 35 mm)

- Checked for space requirements for control and distribution unit under the wash basin

- Checked for space requirements in the sub distribution board

- Installed equipotential bonding (4 mm²) per eVALVE

- Prepared for power outlet

- Prepared for multiple socket-outlet if necessary (to connect other electrical devices)

- Prepared network outlet

- Installed electrical components in sub distribution board on TS 35 DIN rail
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B)
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board

- Checked input voltage 230 V AC in power outlet

Checklist Rough-in – bath

Use this checklist to verify that you have all the information you need from your SMART SET consultations. We recommend to check the rough installation at the same time that the walls are being closed. Please check the work of other trades at regular intervals. The following items are particularly important:

Plumbing

- Piping calculation present

- Hot water storage calculation present

- Drain size calculation present

- Leaktest protocol for entire installation present

- Flushing protocol for entire installation present

- Adhered to nominal diameter requirement
- Pipe system used (manufacturer):

- Installed angle valves connection DN 15 (1/2") for hot and cold water pipes

- Adhered to min. distance for the circulation pipe of 600 mm from the angle valve (hot water circulation system)

Dry wall rough-in

Depending on the installation Version A, B or C (see installation bath) the corresponding hole diameter for the control elements has to be chosen.

- Planned for hole diameter SMART TOOLS min. 35 mm (Version A und C)

- Drywall and metal frame installed (Version B)

- Checked min. rough in depth for SMART TOOL: min. 139 mm - max. 164 mm (Version B)

- Hole with a 56 mm diameter in the dry panelling for concealed parts SMART TOOL (Version B)

- Installed rough (level)

- Installed water protection sleeve (handed over to the tiler)

- Installed connection leads

- Provided or planned for access panels on the bath tub

- Please not space requirement for control and distribution unit near the bath

- Control and distribution unit installed to be accessible at all times

Checklist Rough-in – bath

Use this checklist to verify that you have all the information you need from your SMART SET consultations. We recommend to check the rough installation at the same time that the walls are being closed. Please check the work of other trades at regular intervals. The following items are particularly important:

Electrical

-
- Checked for space requirements for electrical components in sub distribution board
-
- Installed electrical components in sub distribution board on TS 35 DIN rail
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B),
 - Circuit breaker (16A, Type 1S)
 - Equipotential bonding busbar in subdistribution board
 - Network outlet
 - Power supply unit
 - DC-Filter
-
- Installed equipotential bonding (4 mm²) per eVALVE
-
- Checked total length of all connection leads to be less than 30 m
-
- Installed the terminating resistor (Terminator) on the last element in the loop connected via connecting cables
-
- Installed all connecting leads to be pulled out of the wall at least 300 mm in order to service components
-
- Installed and tested RJ45 Connector on Ethernet cable
-
- Checked input voltage 230 V AC in sub distribution board
-
- Checked output voltage 12 V DC
-

Trim installation – all sets

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Plumbing

<input type="checkbox"/>	Checked water hardness; recommended 5 - 6 °e	measured:°e
<input type="checkbox"/>	Installed filter (back flushable) and pressure reducing valve provided on site	
<input type="checkbox"/>	Flushed pipes prior to trim installation	
<input type="checkbox"/>	Checked parts supplied for trim installation are complete	
<input type="checkbox"/>	Installed product immediately after opening the box	
<input type="checkbox"/>	Installed complete trim parts, outlets and SMART TOOLS	
<input type="checkbox"/>	Installed angle valves with filter and filters respectively	
<input type="checkbox"/>	Shutoff for the hot and cold water pipes opened all the way	
<input type="checkbox"/>	Hot Water circulation present	
<input type="checkbox"/>	Hot water temperature range in operation 50 - 60 °C	measured:°C
<input type="checkbox"/>	Cold water temperature range in operation 5 - 20 °C C Measuring point: concealed rough parts for eVALVE or angle valves	measured:°C
<input type="checkbox"/>	Checked anti scald protection 43°C Measuring point: outlet	
<input type="checkbox"/>	Flow pressure in operation 2,5 - 4,0 bar	measured:bar
<input type="checkbox"/>	Recommended flow pressure in operation 3,0 bar	
<input type="checkbox"/>	Difference in flow pressure between hot and cold water in operation Measuring point: concealed rough parts for eVALVE or angle valves	measured:bar

Electrical shower, bidet, bath

<input type="checkbox"/>	Installed electrical components in sub distribution board on TS 35 DIN rail <ul style="list-style-type: none"> - Earth leakage circuit breaker (30 mA, 2-pin, type A) - Safety cutout (6 A, type B) - Circuit breaker (16A, Type 1S) - Equipotential bonding busbar in subdistribution board - Equipotential bonding cable 4mm² per eVALVE - DC-Filter (bath only) - Network outlet
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Trim installation – all sets

Use this checklist to verify that you have all the information you need from your SMART SET consultations. The following items are particularly important:

Electrical wash basin

-
- Installed electrical components in sub distribution board on TS 35 DIN rail
 - Earth leakage circuit breaker (30 mA, 2-pin, type A)
 - Safety cutout (6 A, type B)
 - Equipotential bonding busbar in subdistribution board
 - Equipotential bonding cable 4mm² per eVALVE

 - Power outlet

 - multiple socket-outlet (if necessary)

 - Network outlet

Electrical General

-
- Checked power supply 230 V AC an 12 V DC

 - Installed Ethernet cable

 - Turned on power supply

Trim installation and handing over

-
- Checked all functions of SMART SET

 - Instructed owner/ operator in use of SMART SET

 - Programmed Min. and Max. flow rates according to customer requirements

 - Programmed Auto fill function for bath tub according to customer requirements

 - Handed over quickinfo and user manual

 - Confirmed faultless operation with signature

Date: _____ Installer

Date: _____ Owner / Operator

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