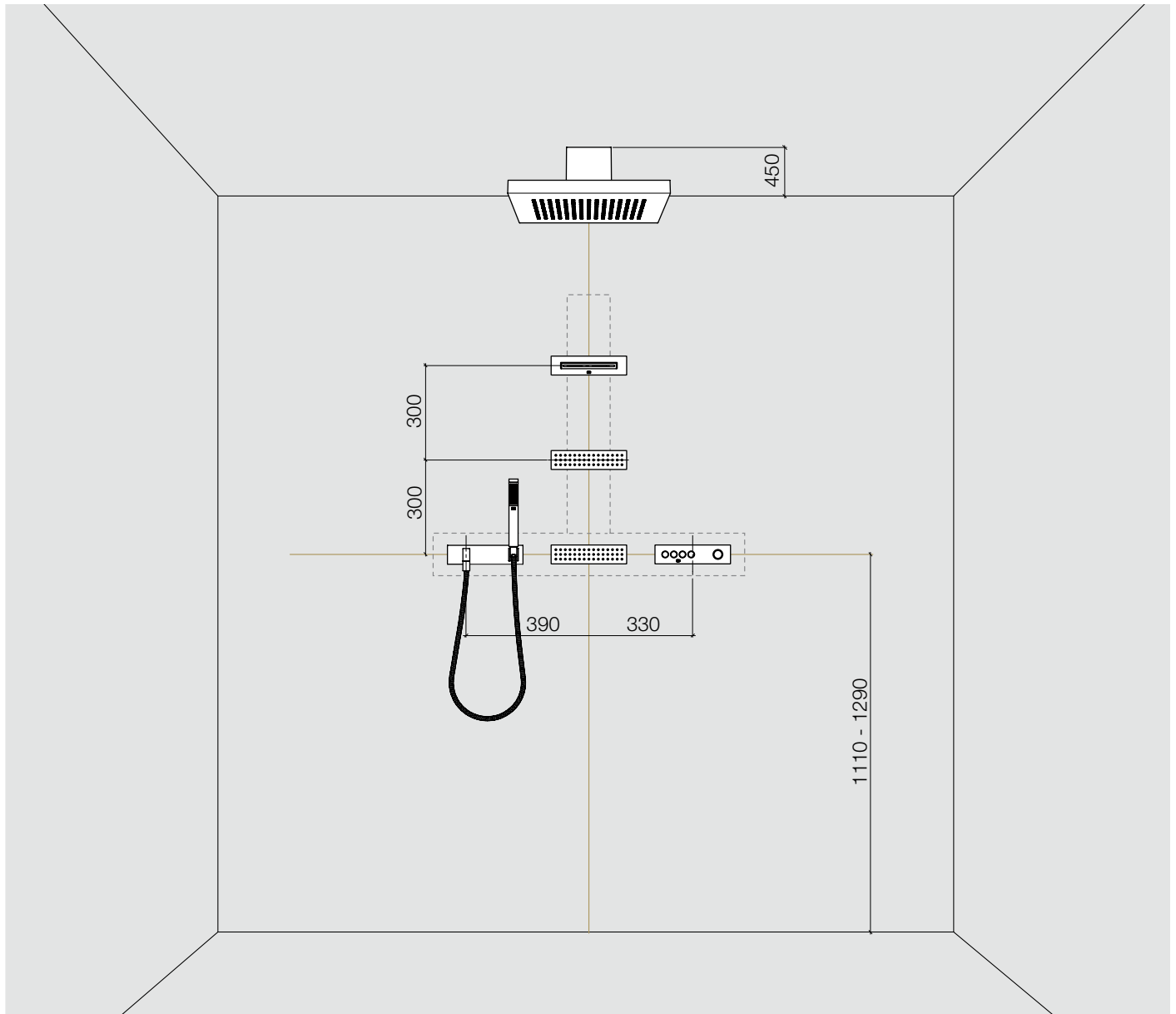


# PLANNING INSTRUCTIONS

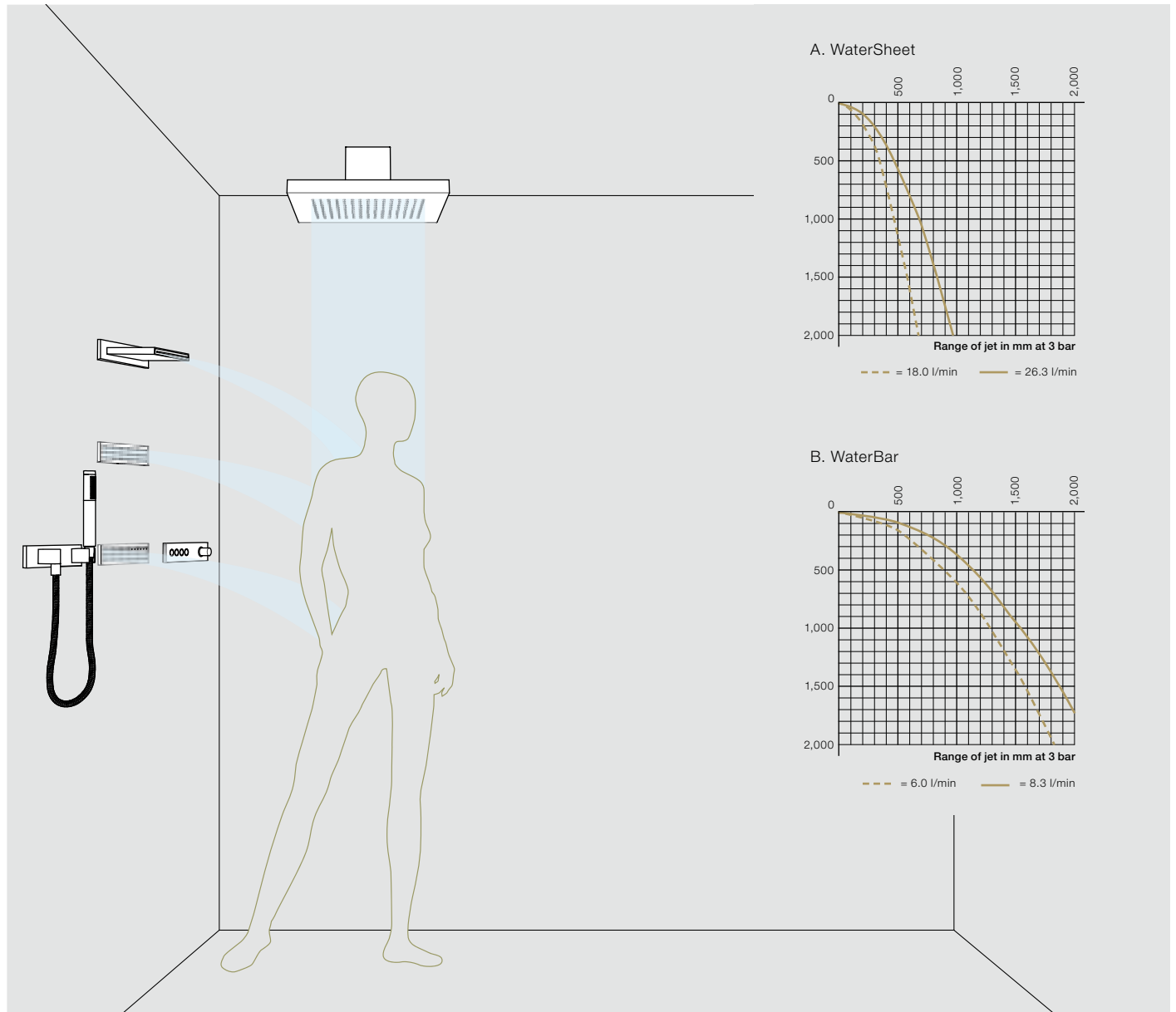
02	Basics
04	Components
07	Safety zones
08	Pre-wall system
11	Assembly
19	Data and standards
21	Product overview
32	Checklists

# APPLICATION

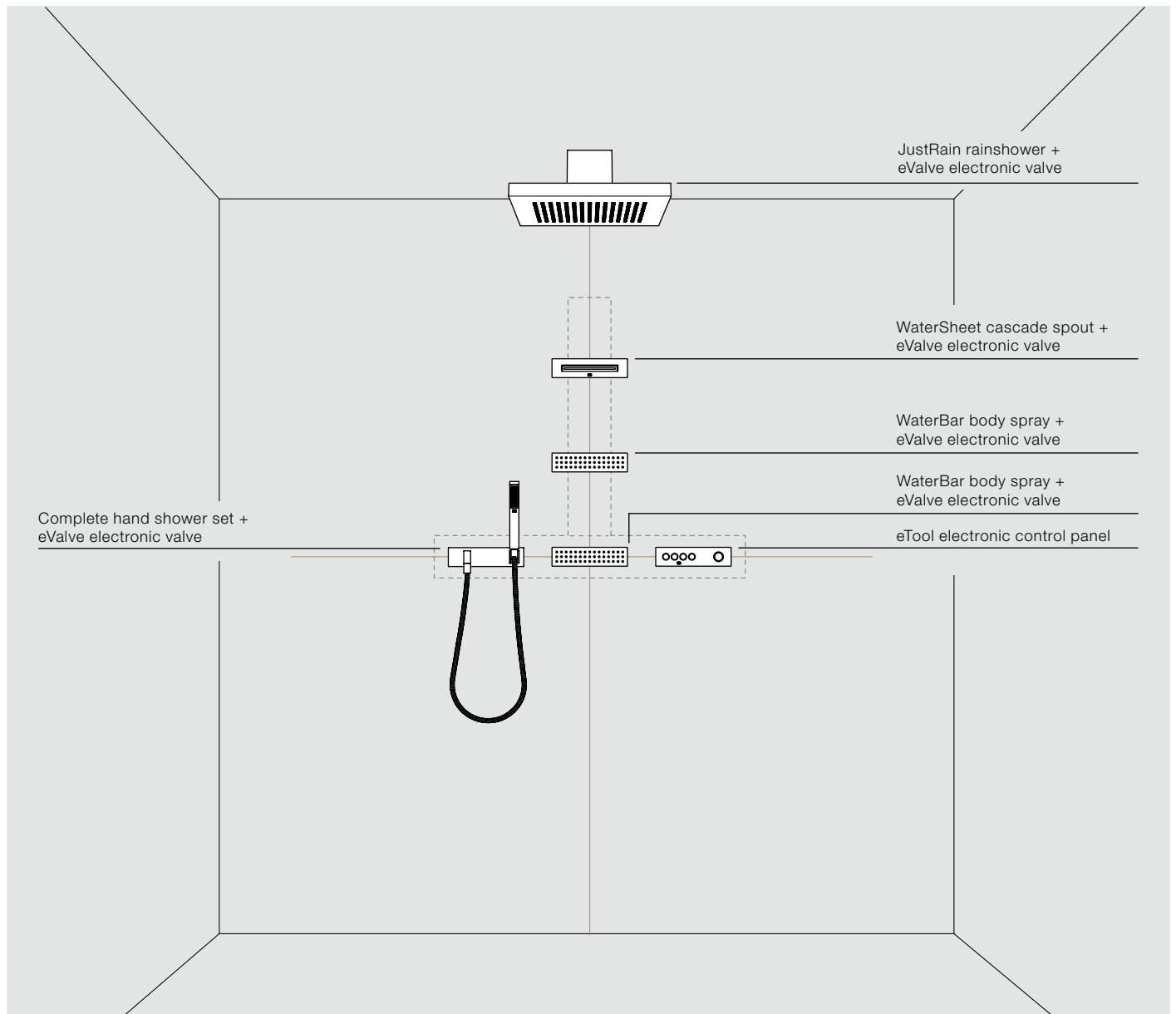


The basic installation height for the controls on the wall is 1,200 mm for a 1.75 m tall user. This can be varied as required and adapted to the height of the particular user.

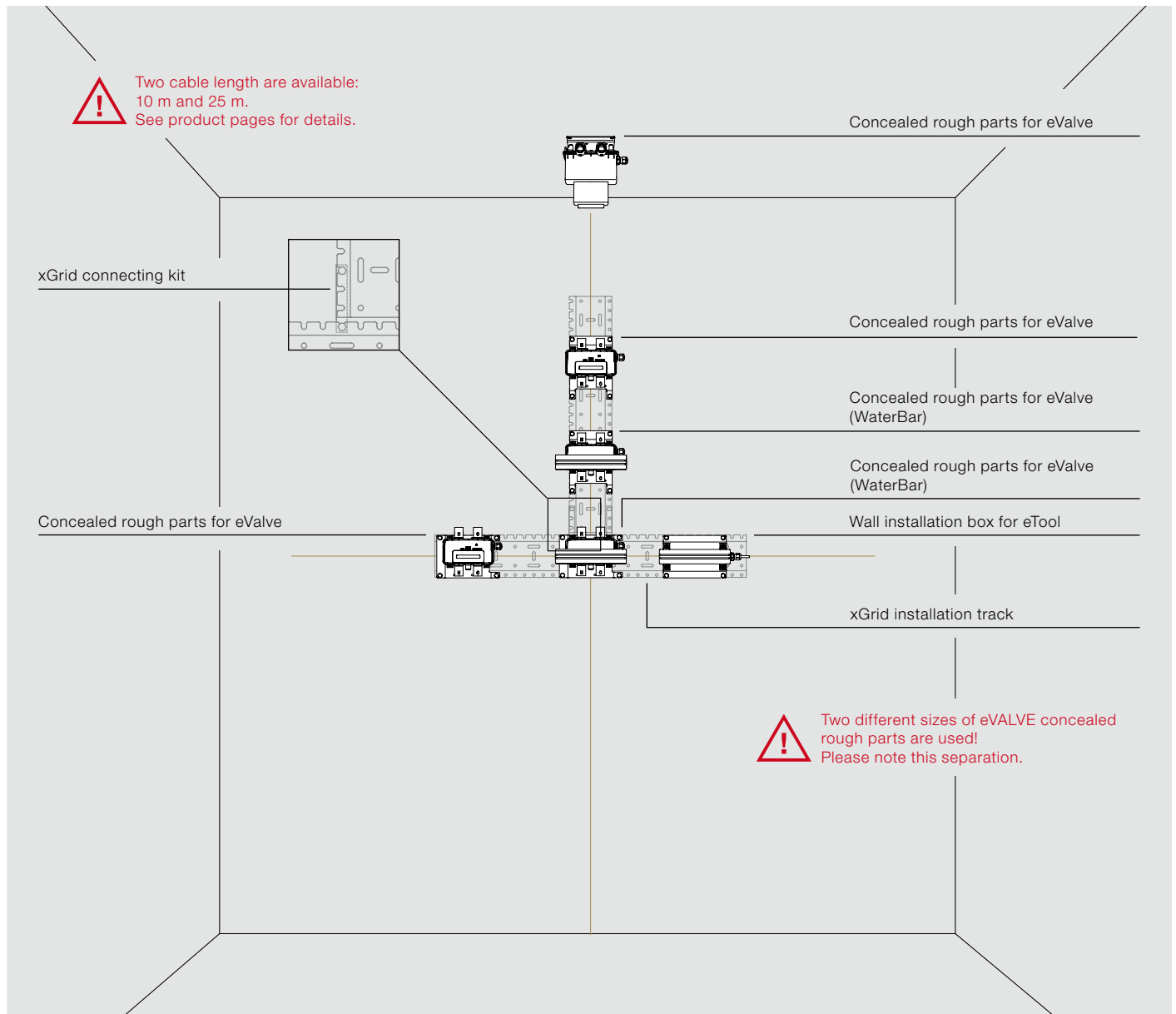
# WATER EFFECTS



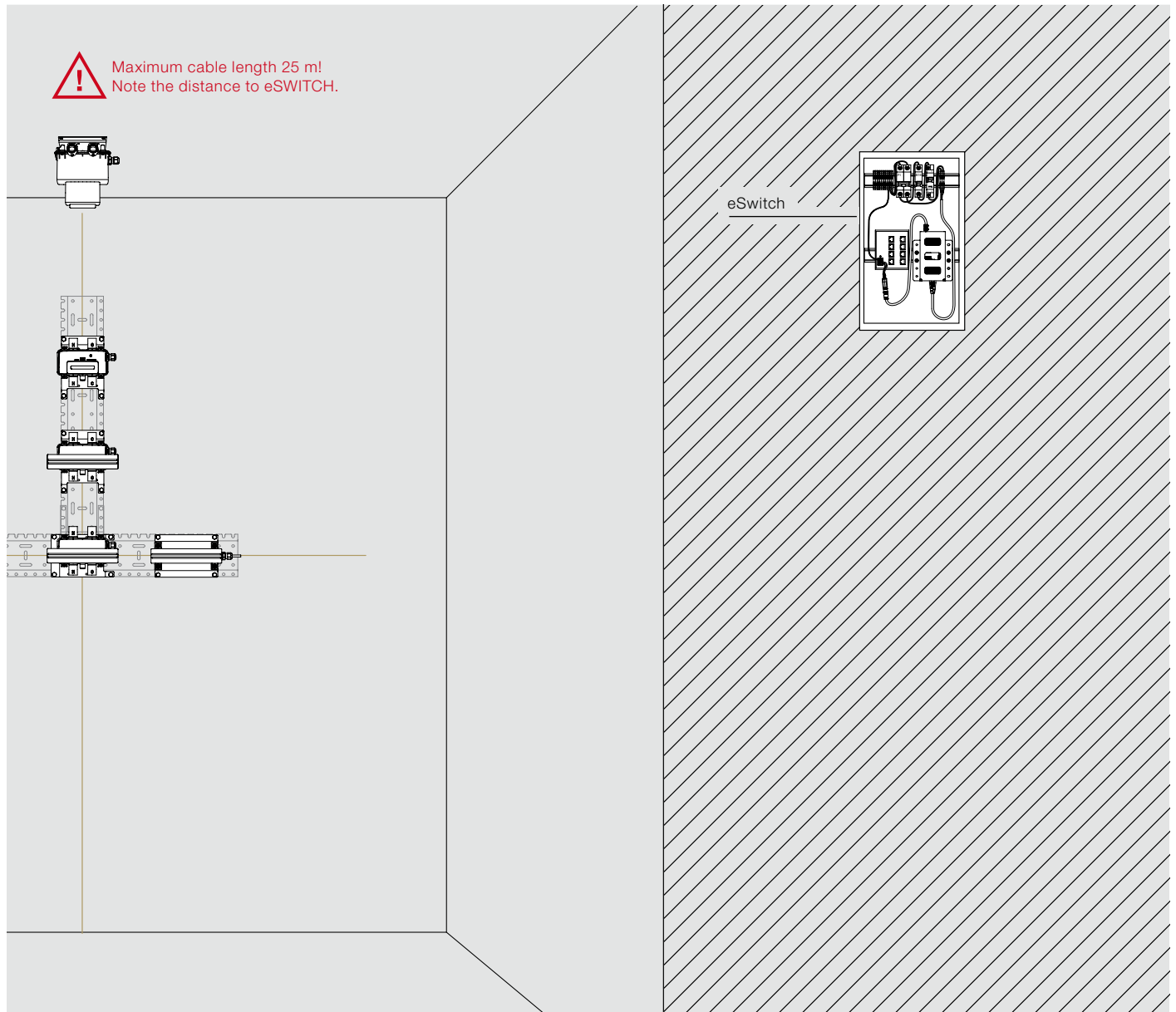
# EXPOSED TRIM COMPONENTS



# CONCEALED ROUGH COMPONENTS

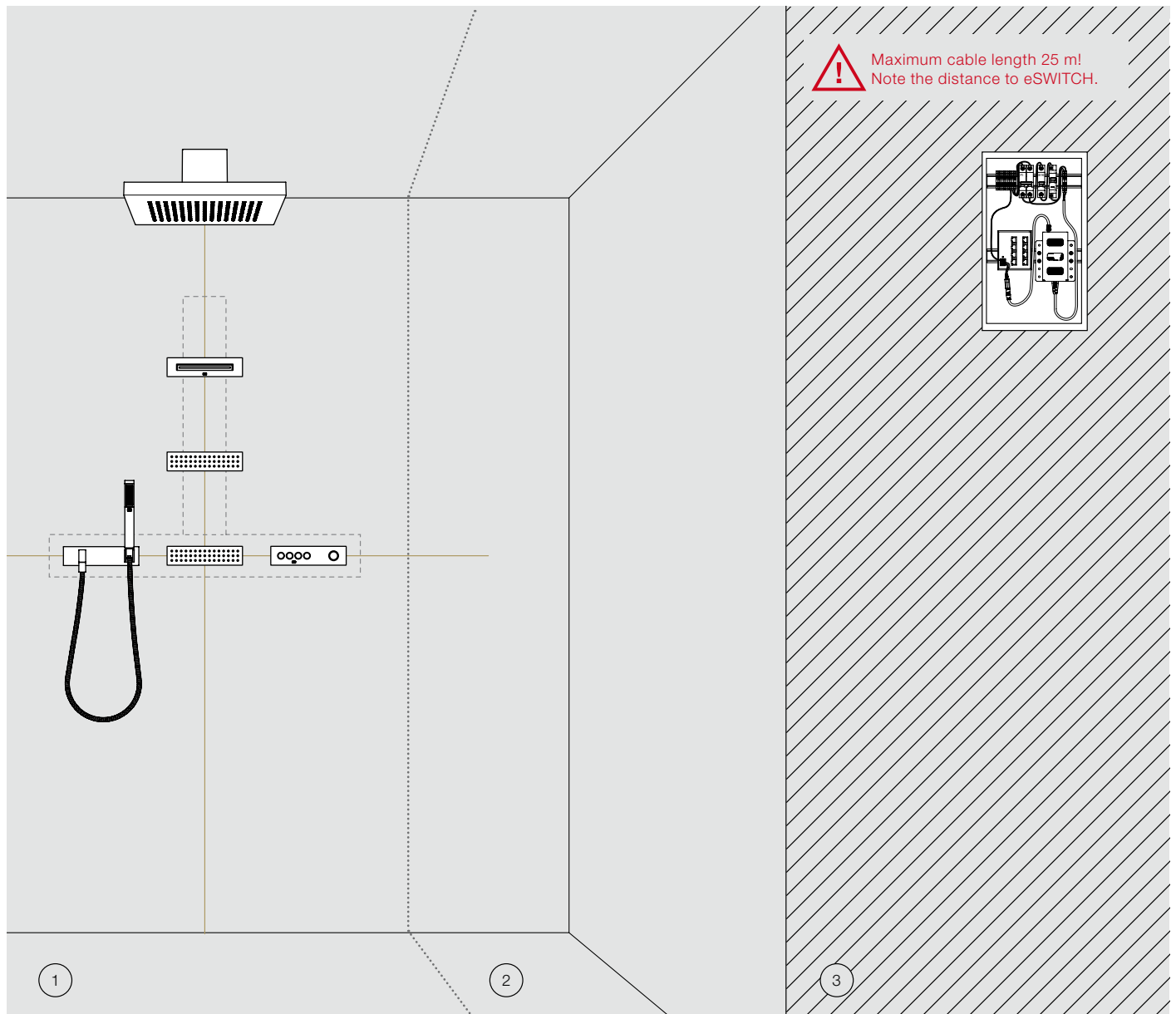


# NETWORK COMPONENTS



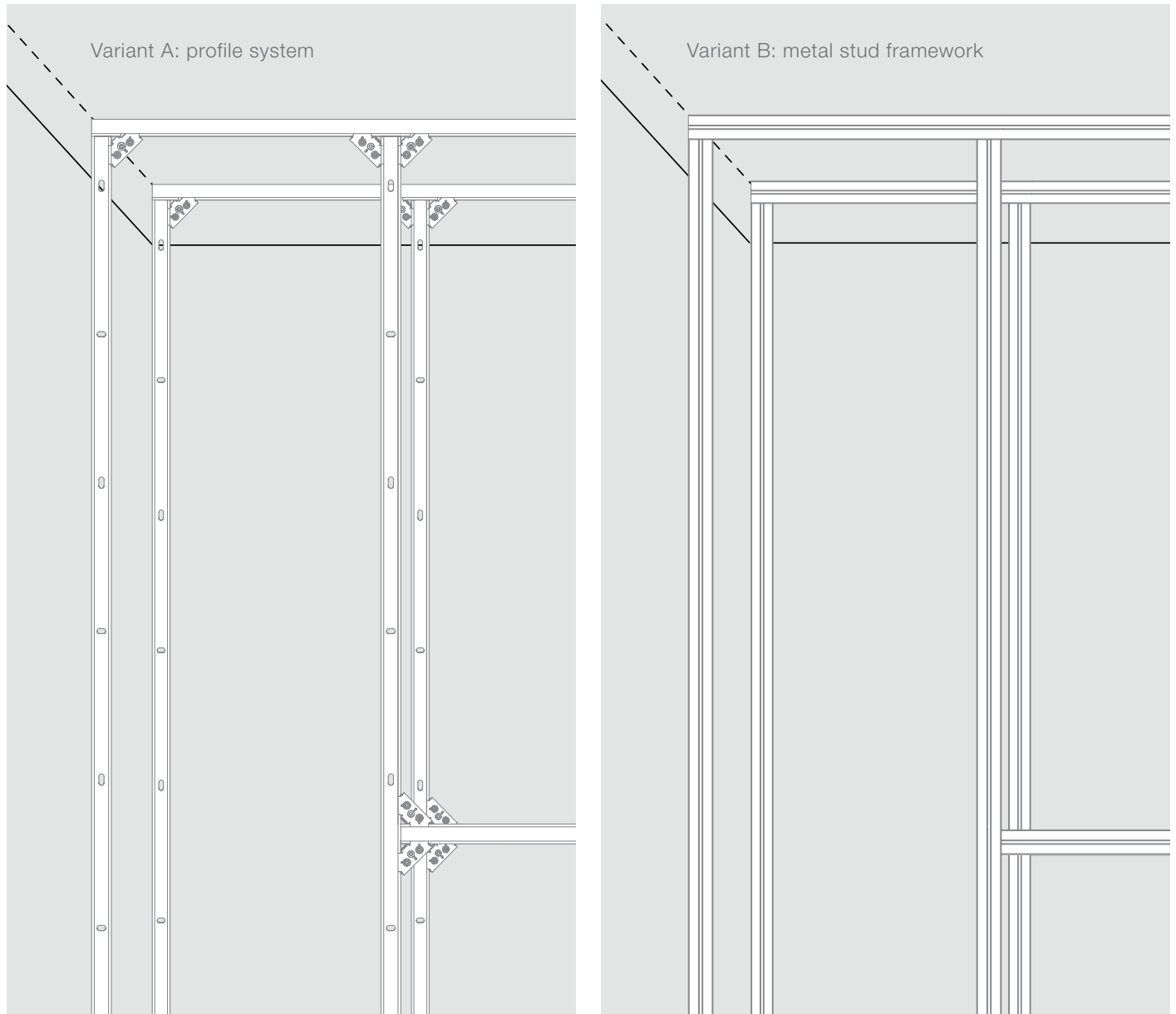
The network technology allows additional components such as a luminous ceiling/luminous wall to be incorporated.

# SAFETY ZONES



DIN VDE 0100, PART 701 compliant safety zones. Please conform to national statutory regulations, where different.  
eSWITCH must be installed outside the wet zone in a main board or a sub-distribution board.  
The installation must guarantee the relevant protection rating for each component.

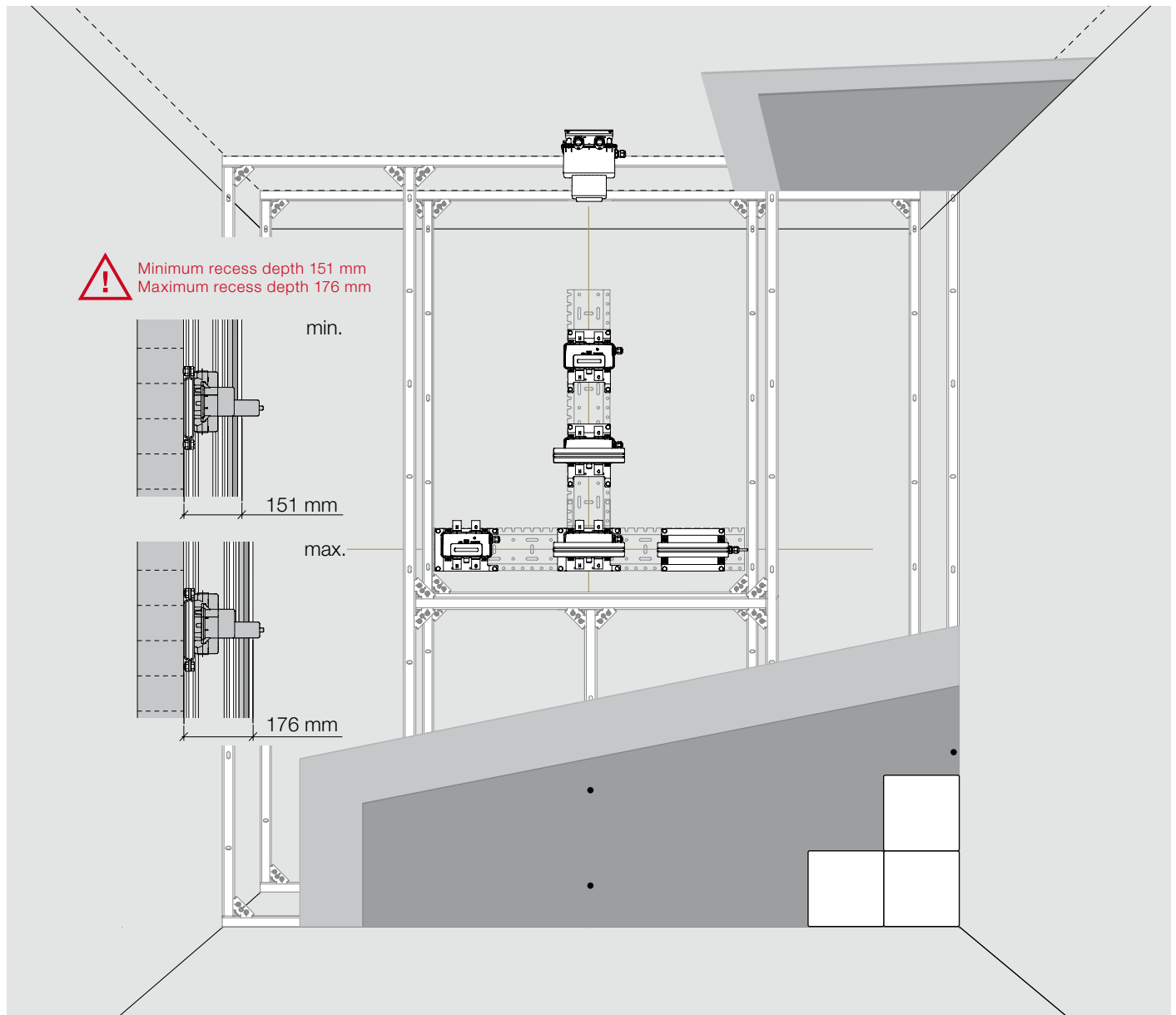
# PRE-WALL SYSTEM



For a faster and neater installation, we recommend a pre-wall installation. This will firstly make sure that the statics of an existing wall are not compromised and secondly, it will prevent potential soundproofing, heat insulation and fire protection problems. It does not matter whether you are planning a new construction or a subsequent installation, pre-wall integration allows you to be individual and creative in your bathroom planning at any time.

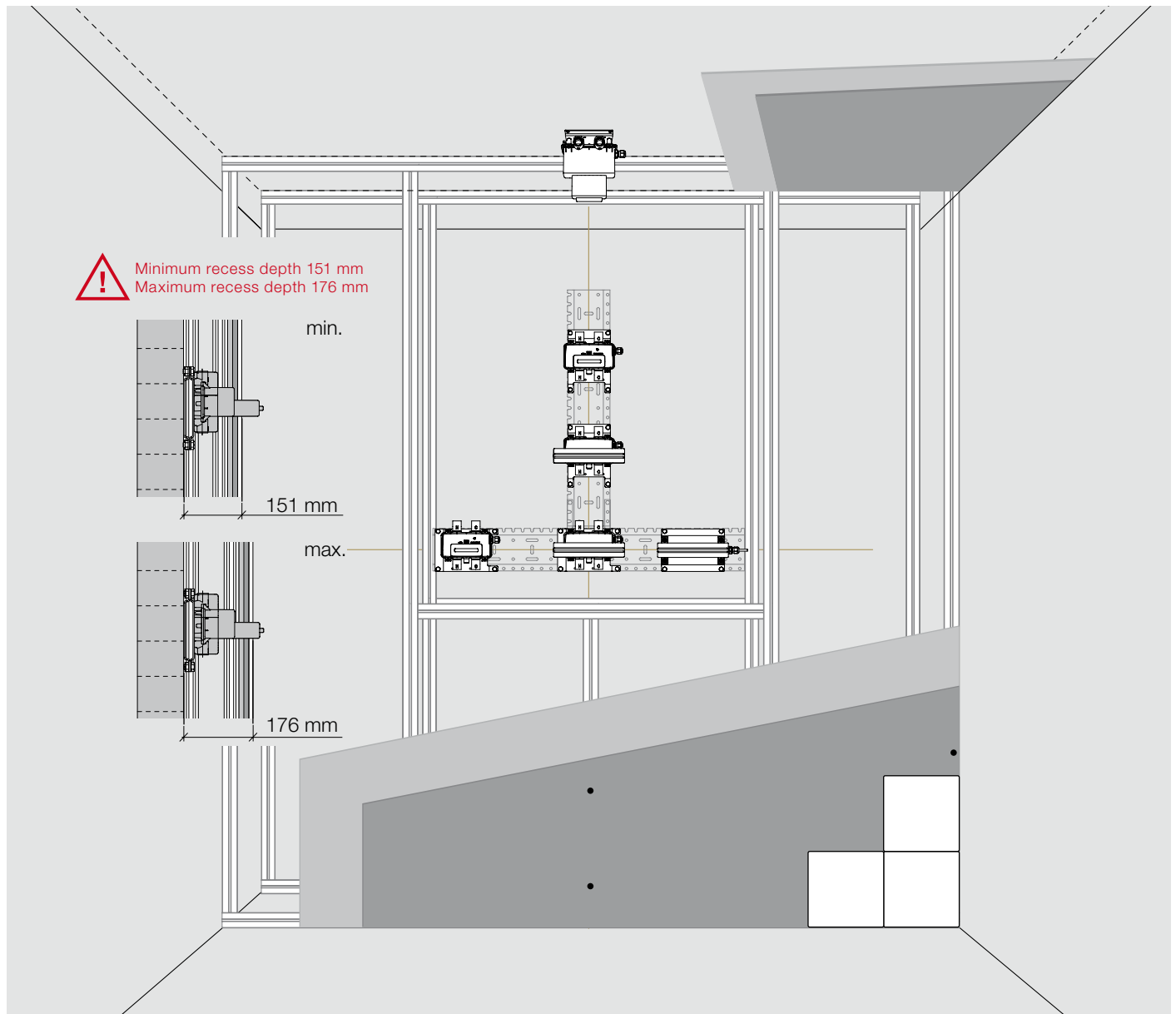


# PROFILE SYSTEM



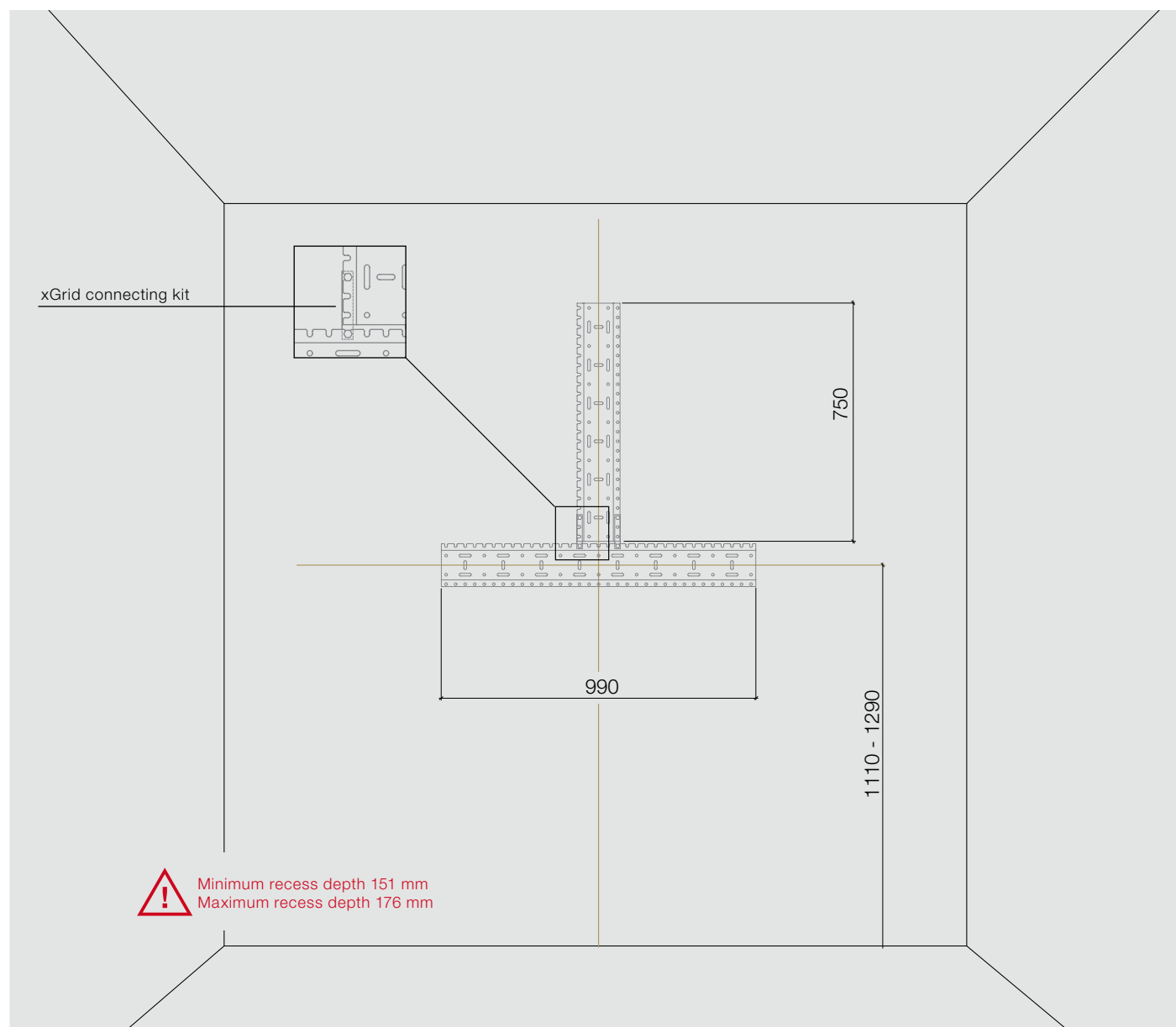
Profile systems are available from various manufacturers, such as brand name manufacturers Geberit, Viega and TeCe.

# METAL STUD FRAMEWORK



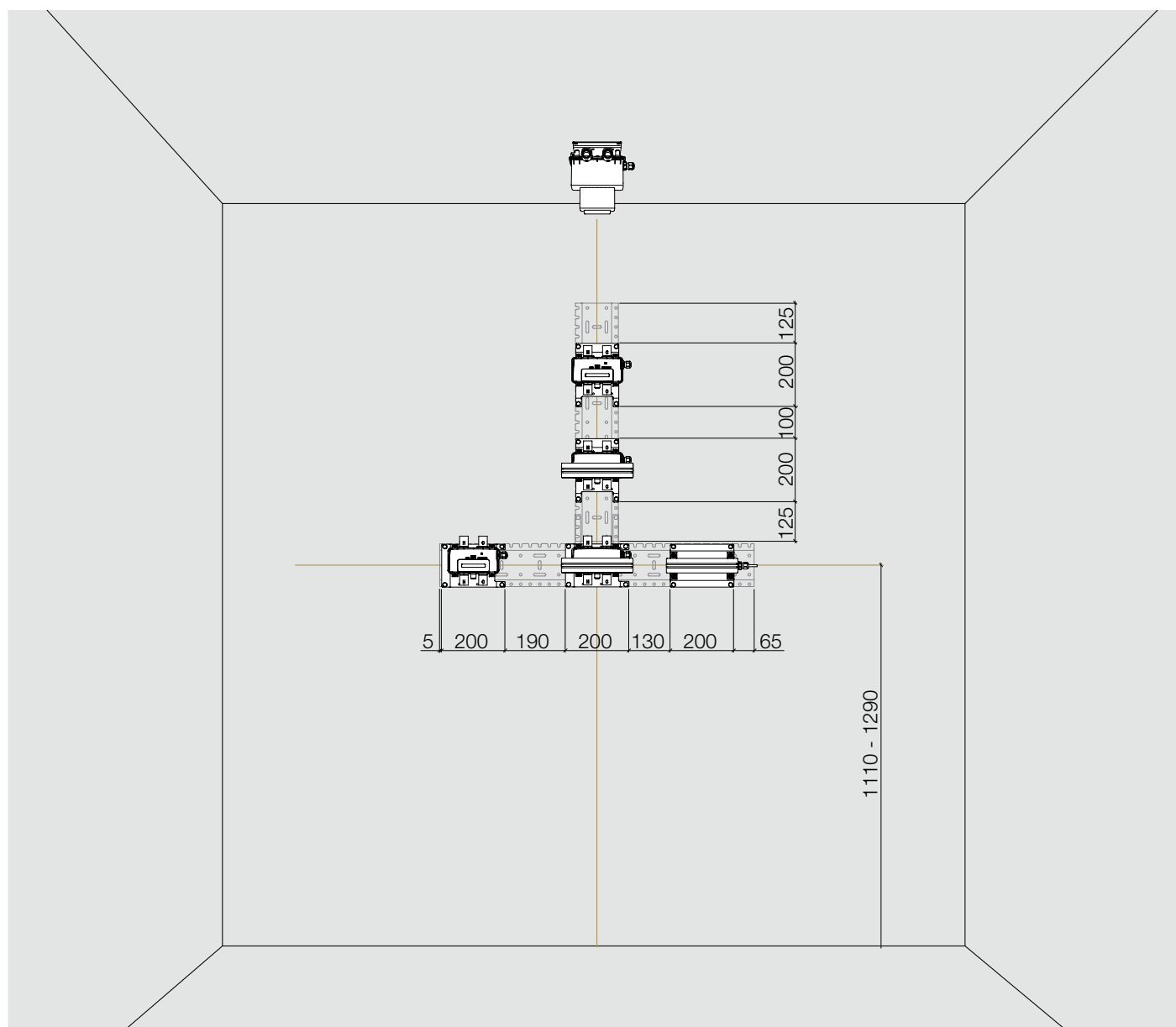
Metal stud framework are available from various manufacturers, such as the brand name manufacturers Knauf and Rigips.

# xGRID



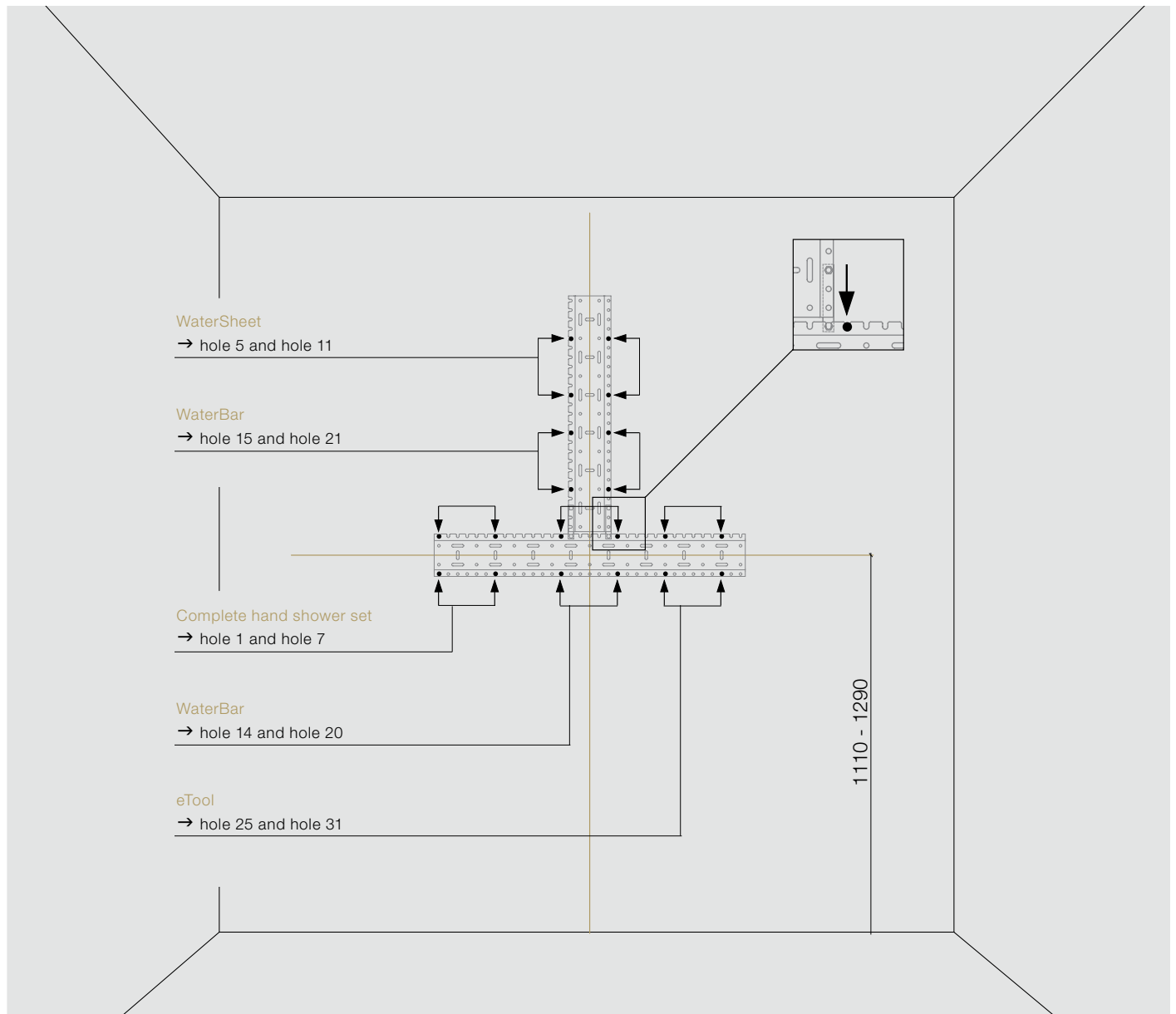
Three different lengths of xGRID installation track are available: 990/750/510 mm.  
 The tracks can be joined together with connectors.  
 There is a 30 mm component mounting grid.

# CONCEALED ROUGH PRODUCTS



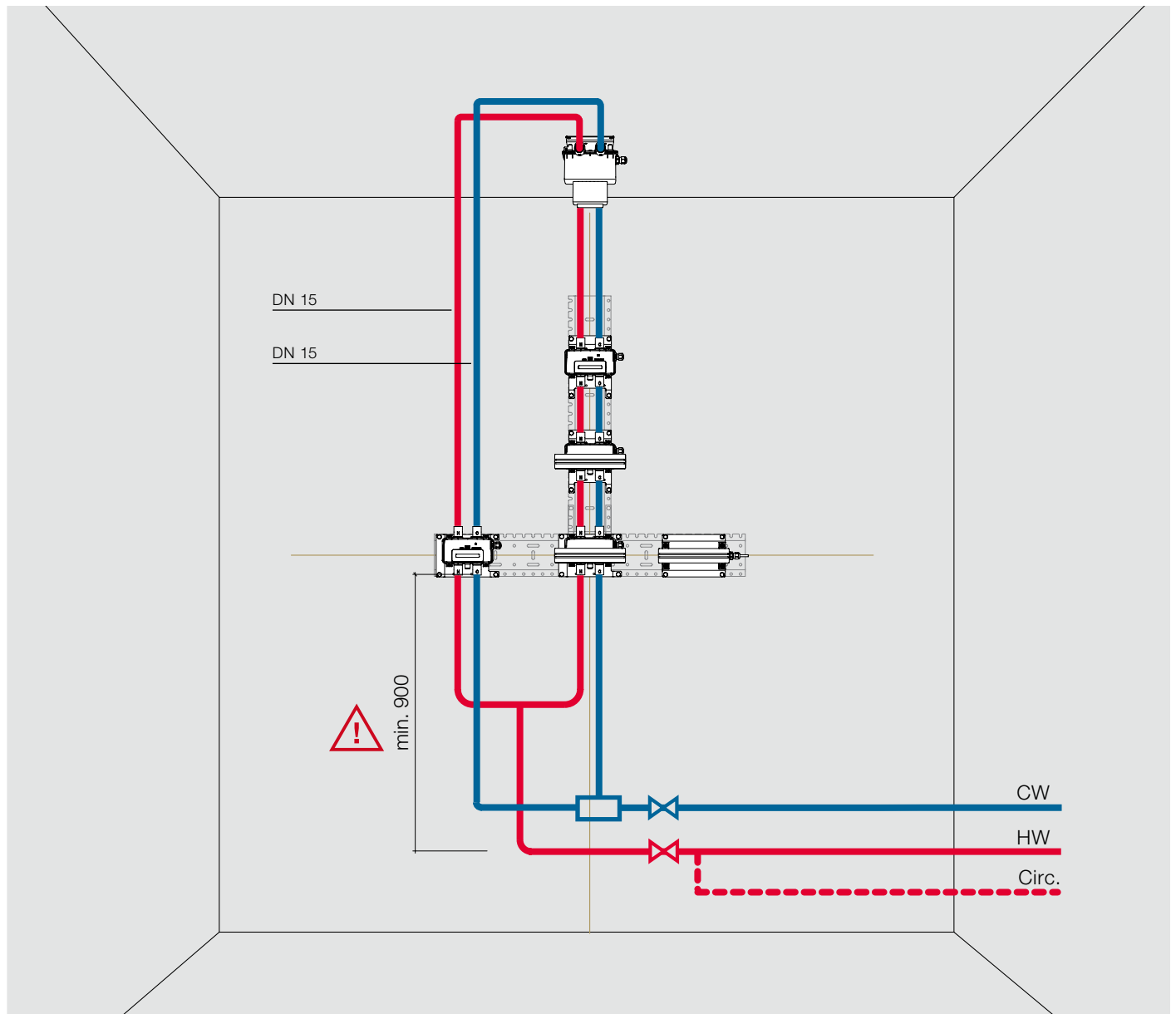
The mounting heights and distances must be made exact.

# MOUNTING POINTS



The mounting heights and distances must be made exact.

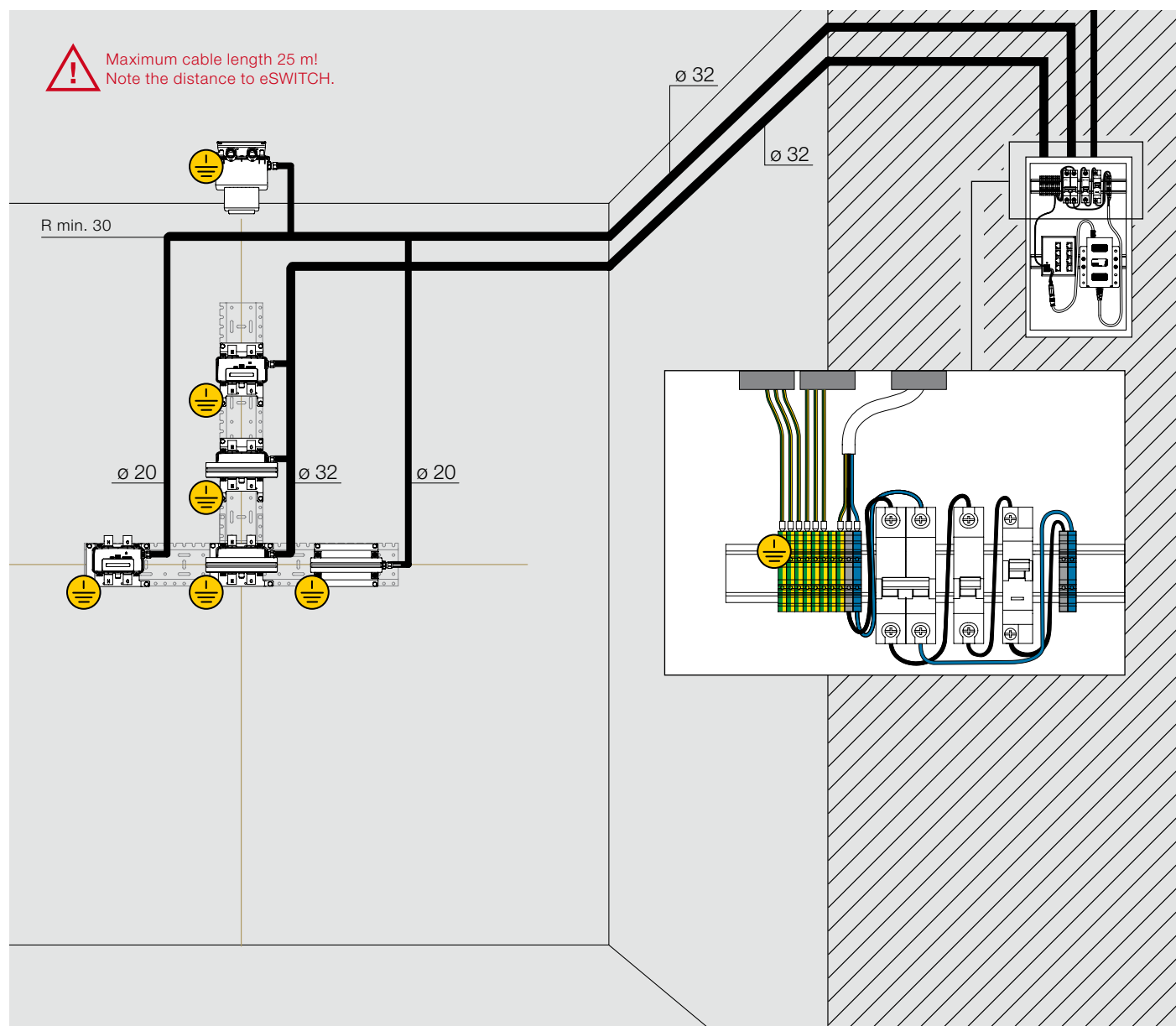
# WATER INSTALLATION



The customer must provide a separate cutoff for the hot and cold water pipes. Filters should be used. To prevent stagnant water, we recommend installing the hot and cold water piping as a ring main. With a circulation pipe, the minimum distance to the eVALVE must be 900 mm.

ALSO SEE PLANNING NOTES

# ELECTRICAL INSTALLATION



Only connect the device to the electricity supply when voltage free.

The electrician/plumber must provide the following circuit breakers and electrical components:  
 earth leakage circuit breaker (30 mA, 2-pin, type A), safety cut-out (16 A, type B),  
 circuit-breaker switch (16 A, 1 make contact, 230 V AC).

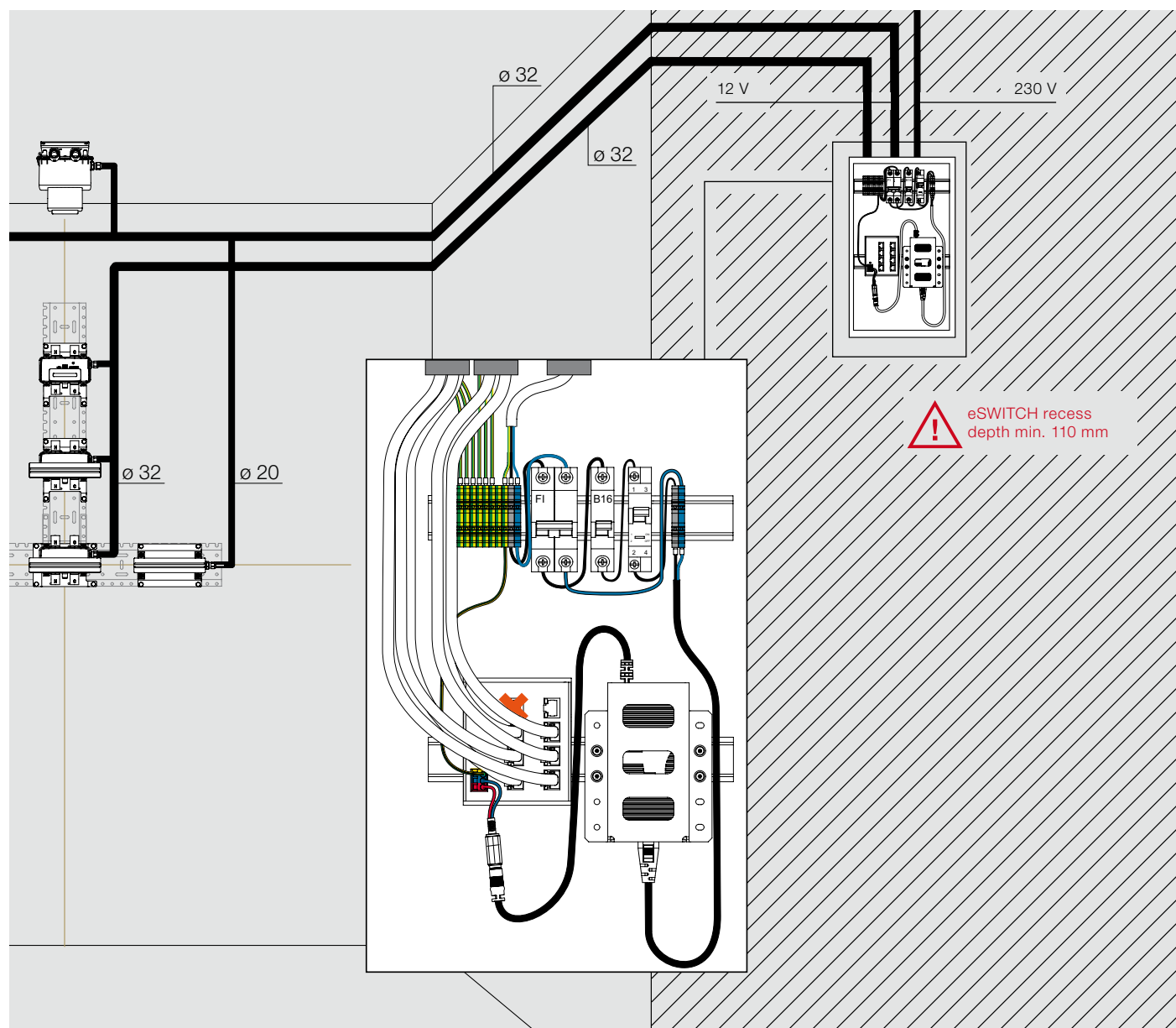
Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100.

Please conform to national statutory regulations, where different.

We recommend a cable ductwork diameter of 32 mm for the three Ethernet cables (included with the products) and the three grounding cables.

ALSO SEE PLANNING NOTES

# NETWORK INSTALLATION



Only connect the device to the electricity supply when voltage free.

The electrician/plumber must provide the following circuit breakers and electrical components:

earth-leakage circuit breaker (30 mA, 2-pin, type A), safety cut-out (16 A, type B),

circuit-breaker switch (16 A, 1 make contact, 230 V AC).

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

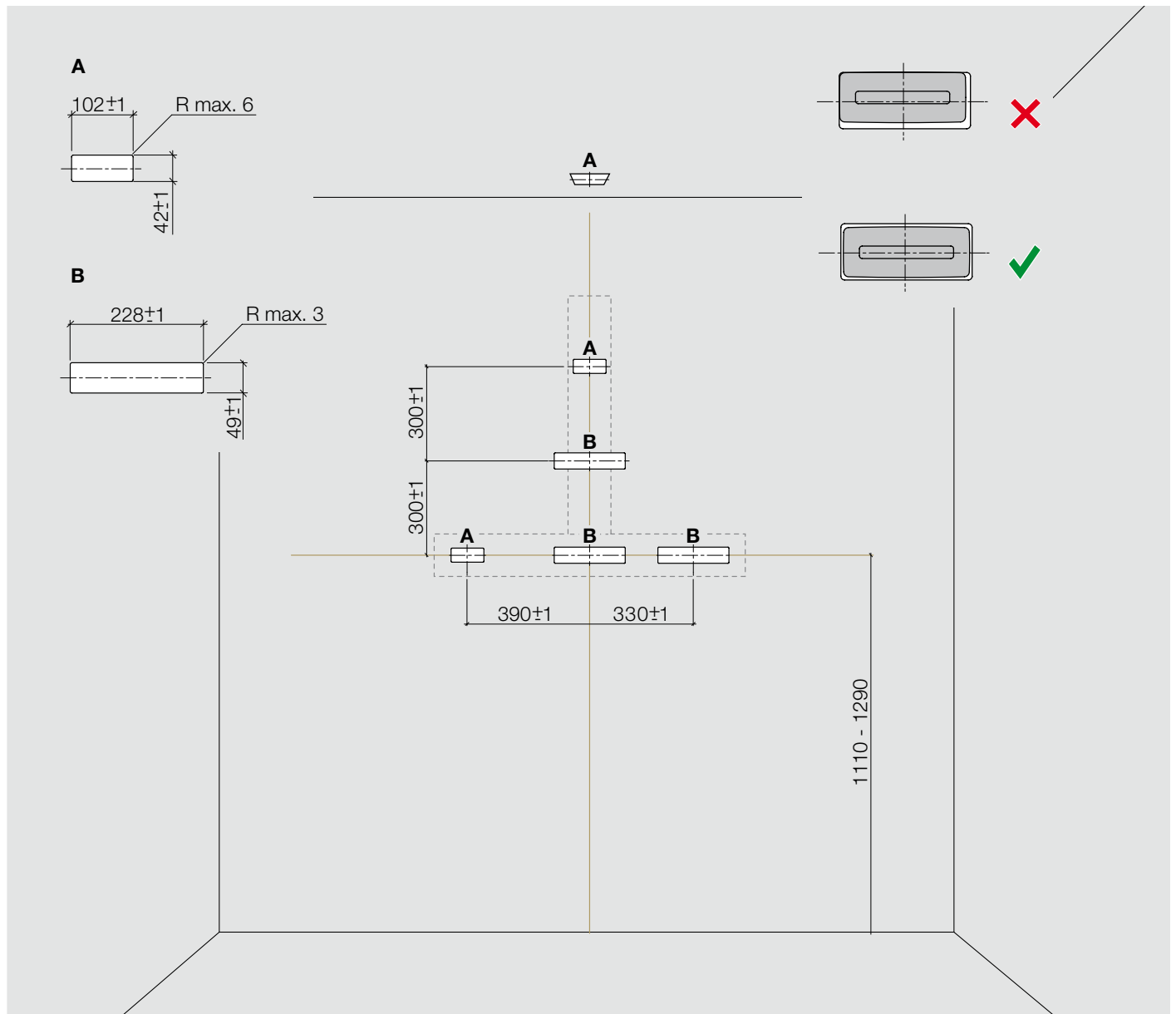
Please conform to national statutory regulations, where different.

We recommend a cable ductwork diameter of 32 mm for the three Ethernet cables (included with the products) and the three grounding cables.

ALSO SEE PLANNING NOTES

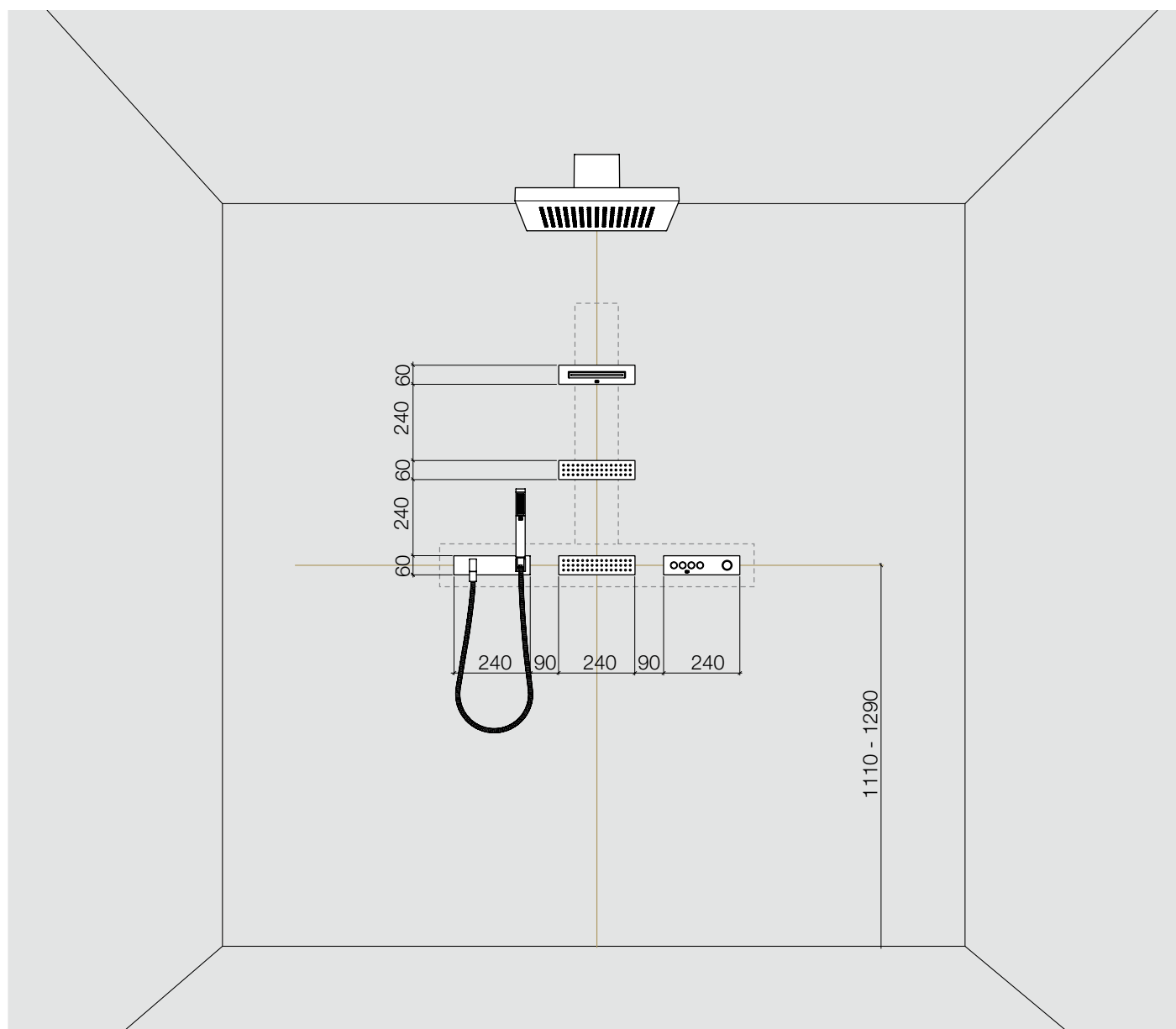


# CUTOUTS



Wall cutouts must be accurate.

# EXPOSED TRIM PRODUCTS



# PLANNING NOTES

## Plumbing

Water supply (hot + cold) 2 x DN 15 (eVALVE loop).  
A main filter should be used.  
To prevent stagnation of water and ensure a sufficient volume for each eVALVE during operation, we recommend installing the hot and cold water piping as a loop.  
Is a circulation line used back to the boiler, the minimum distance of the T connexion between the hot and circulation line to the first eVALVE must be 900 mm.

### Application

The devices are not designed for outdoor use.  
Do not install or use the devices outdoors.

### Water hardness

Recommended water hardness: 6-7° dH.  
If your water is harder, install a water softening system that uses the ion exchange principle into the feed pipes.

### Hot water storage

For the optimum choice of hot water storage device – taking into consideration additional drawing-off points – you need to assess the specific demand.  
Recommendation: storage capacity of at least 500 l.

### Floor drain

A specific calculation that takes into consideration the flow rate of all the outlet points in the shower is required for optimum floor drain sizing.  
Recommendation: connected rating 1.5 l/s.,  
drainage pipe DN 70.

## Electrical

Combine the devices only with original Dornbracht components. When connecting, make sure that the lead colours are assigned correctly.

The electrician/plumber must provide the following circuit breakers and electrical components:  
earth leakage circuit breaker (30 mA, 2-pin, type A), safety cut-out (16 A, type B).

Only connect the device to the electricity supply when 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. We recommend a cable ductwork diameter of 32 mm for the three Ethernet cables (included with the products) and the three grounding cables.

Basics	Assembly	PLANNING NOTES
Components	· Data and standards	· TECHNICAL DATA
Safety zones	Product overview	
Pre-wall system	Checklists	

# TECHNICAL DATA

## Plumbing

Flow at 3 bar flow pressure (max.)

- JUST RAIN	17.0 l/min.
- WATER SHEET	17.0 l/min.
- WATER BAR	6.5 l/min.
- Hand shower	8.3 l/min.
- Configuration total	55.3 l/min.

Scenario flows

- Balancing (ca. 5 mins.):	Total: approx. 61.5 litres
- Energizing (ca. 4.5 mins.):	Total: approx. 57.0 litres
- De-stressing (ca. 4.5 mins.):	Total: approx. 85.3 litres

Flow pressure

Minimum flow pressure	2.5 bar
Maximum flow pressure	4.0 bar
Maximum difference in flow pressure between hot and cold water	1.0 bar
Recommended flow pressure	3.0 bar

Permissible operating temperatures

Maximum hot-water temperature	65 °C
Minimum hot-water temperature	50 °C
Cold-water temperature range	5-20 °C

## Electrical

eSWITCH

Input voltage	100-240 VAC
Maximum power consumption	60 W
Output voltage	12 VDC
Output current	5 A
Input frequency	50-60 Hz
System of protection	IP 20
Maximum ambient temperature	40 °C
Minimum ambient temperature	0 °C

eTOOL

Equipotential bonding (per eTOOL)	4 mm <sup>2</sup>
System of protection	IP 66
Power consumption (when not in use)	2 W
Maximum ambient temperature	55 °C
Minimum ambient temperature	5 °C

eVALVE + concealed rough parts

Equipotential bonding (per eVALVE)	4 mm <sup>2</sup>
eVALVE protection	IP 66
Power consumption (when not in use)	4 W
Maximum ambient temperature	55 °C
Minimum ambient temperature	5 °C

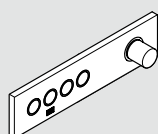
Mark

Electrician/plumber provides 30 mA earth leakage circuit breaker



## eTOOL

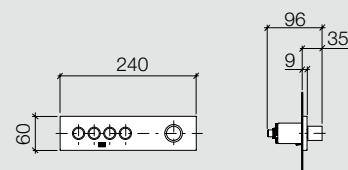
42 714 979



### eTool electronic control panel with 4 buttons

- Panel with electronic control 240 x 60 mm
- Electricity supply: 12 VDC via eSwitch for controlling ceiling-fitted JustRain (41 507 979), wall-fitted JustRain (41 550 979), WaterSheet (13 415 979), WaterBar (36 517 979) and hand shower (27 818 979)
- Temperature setting is in keeping with the individual's sensitivity to heat
- Water scenarios are readily accessible using four buttons via eTool
- Comfort function with a pre-defined temperature
- Cleaning mode
- Diagnostic capability
- Update capability
- Operating system: MS Windows CE 6.0

polished chrome 42 714 979-00  
platinum matt 42 714 979-06



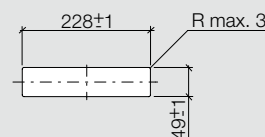
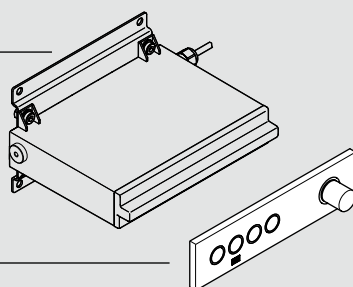
### Wall installation box for eTool

35 210 970 90 – with 25 m cable  
35 211 970 90 – with 10 m cable  
Concealed rough parts

### eTool

#### Electronic control panel with 4 buttons

42 714 979-00 polished chrome  
42 714 979-06 platinum matt  
Exposed trim parts



Additional downloads:

[eTool installation instructions](#) (42 714 979)

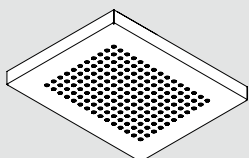
[Installation instructions for eTool concealed rough parts](#) (35 210 970 90 // 35 211 970 90)

# JUST RAIN

41 507 979

## JustRain rainshower with ceiling fixing

- Rainshower 400 x 320 mm
- Supply 1/2"
- Pre-installed stainless steel housing
- Anti-scale system
- Electronic control via eTool
- Max. flow rate 17 l/min.



Polished stainless steel  
Brushed stainless steel

41 507 979-85  
41 507 979-86

### Concealed rough parts for eValve

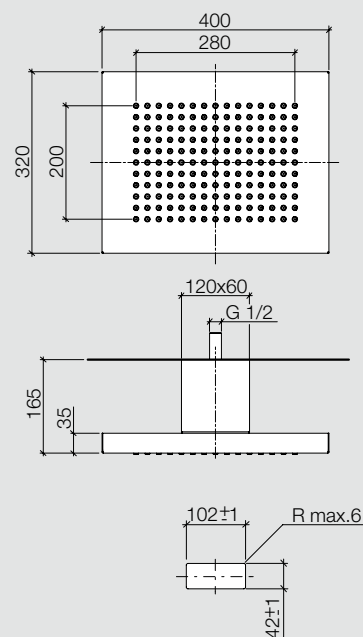
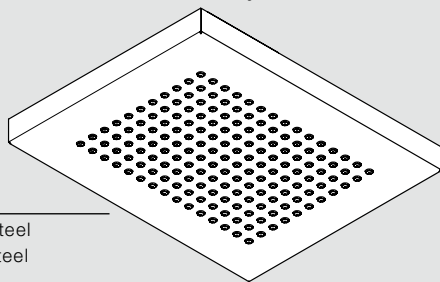
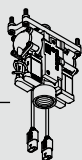
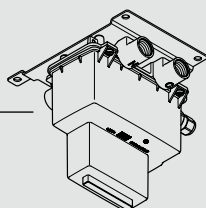
35 215 970 90 – with 25 m cable  
35 216 970 90 – with 10 m cable  
Concealed rough parts

### eValve Electronic valve

35 315 970 90  
Exposed trim parts

### JustRain Rain shower with ceiling fixing

41 507 979-85 polished stainless steel  
41 507 979-86 brushed stainless steel  
Exposed trim parts



Additional downloads:

[JustRain installation instructions](#) (41 507 979)

[eValve installation instructions](#) (35 315 970 90)

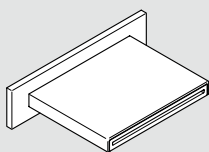
[Installation instructions for eValve concealed rough parts](#) (35 215 970 90 // 35 216 970 90)

# WATER SHEET

13 415 979

## WaterSheet cascade spout for wall mounting

polished chrome 13 415 979-00  
platinum matt 13 415 979-06



- Projection 150 mm
- Cover plate 240 x 60 mm
- Supply 1/2"
- With jet regulator
- Plug-link mounting
- Electronic control via eTool
- Max. flow rate 17 l/min.

### Concealed rough parts for eValve

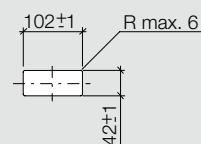
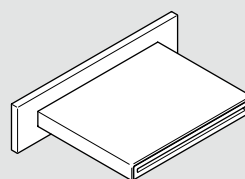
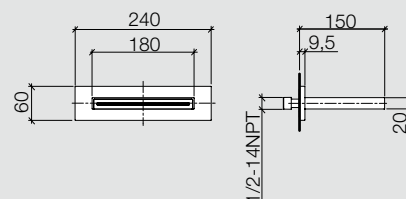
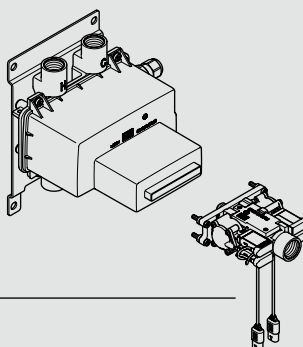
35 215 970 90 – with 25 m cable  
35 216 970 90 – with 10 m cable  
Concealed rough parts

### eValve Electronic valve

35 315 970 90  
Exposed trim parts

### WaterSheet Cascade spout for wall mounting

13 415 979-00 polished chrome  
13 415 979-06 platinum matt  
Exposed trim parts



Additional downloads:

[WaterSheet installation instructions](#) (13 415 979)

[eValve installation instructions](#) (35 315 970 90)

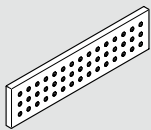
[Installation instructions for eValve concealed rough parts](#) (35 215 970 90 // 35 216 970 90)

# WATER BAR

36 517 979

## WaterBar concealed body spray

polished chrome 36 517 979-00  
platinum matt 36 517 979-06



- Cover plate 240 x 60 mm
- Anti-scale system
- Electronic control via eTool
- Max. flow rate 6.5 l/min.

### Concealed rough parts for eValve

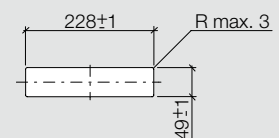
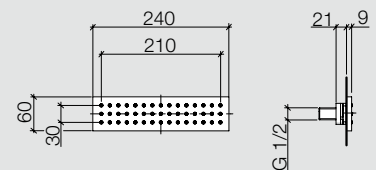
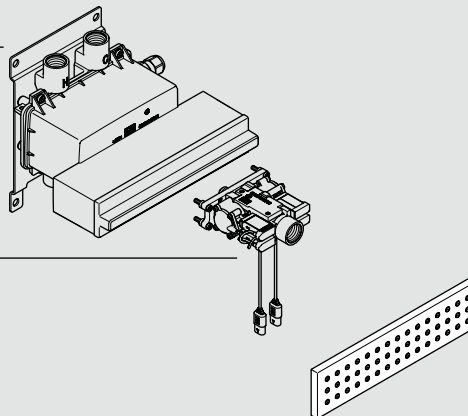
35 217 970 90 – with 25 m cable  
35 218 970 90 – with 10 m cable  
Concealed rough parts

### eValve Electronic valve

35 315 970 90  
Exposed trim parts

### WaterBar Concealed body spray

36 517 979-00 polished chrome  
36 517 979-06 platinum matt  
Exposed trim parts



Additional downloads:

[WaterBar installation instructions](#) (36 517 979)

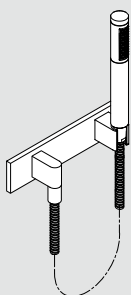
[eValve installation instructions](#) (35 315 970 90)

[Installation instructions for eValve concealed rough parts](#) (35 217 970 90 // 35 218 970 90)



# COMPLETE HAND SHOWER SET

27 818 979



## Complete hand shower set with cover plate

- Bar-type hand shower with anti-scale system and back flow preventer
- Shower outlet 3/8"
- Shower holder
- Cover plate 240 x 60 mm
- Shower hose 3/8" x 1/2" x 1,250 mm with pivoting cone
- Wall elbow 1/2" with back flow preventer
- Electronic control via eTool
- Max. flow rate 8.3 l/min.

Inherently safe from back flow.

polished chrome 27 818 979-00  
platinum matt 27 818 979-06

## Concealed rough parts for eValve

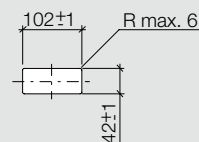
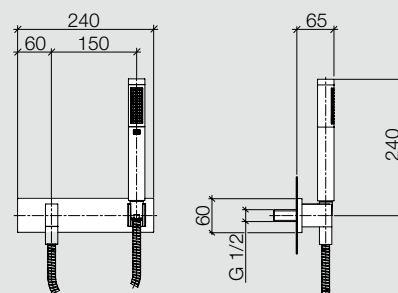
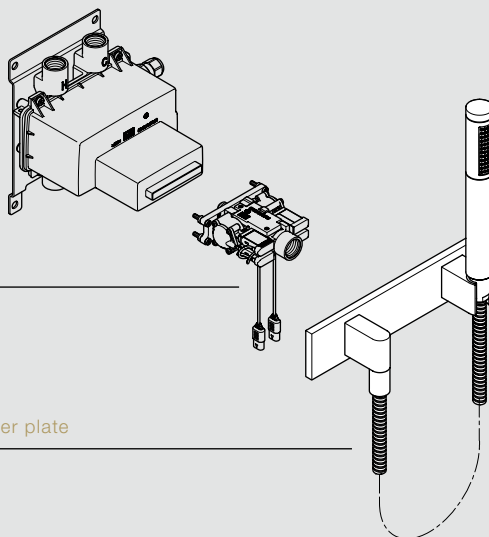
35 215 970 90 – with 25 m cable  
35 216 970 90 – with 10 m cable  
Concealed rough parts

## eValve Electronic valve

35 315 970 90  
Exposed trim parts

## Complete hand shower set with cover plate

27 818 979-00 polished chrome  
27 818 979-06 platinum matt  
Exposed trim parts



Additional downloads:

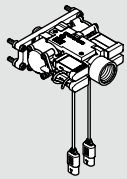
[eTool installation instructions](#) (27 818 979)

[eValve installation instructions](#) (35 315 970 90)

[Installation instructions for eValve concealed rough parts](#) (35 215 970 90 // 35 216 970 90)

# eVALVE

35 315 970 90



**eValve electronic valve for regulating water temperature and volume**

35 315 970 90

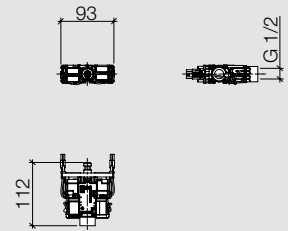
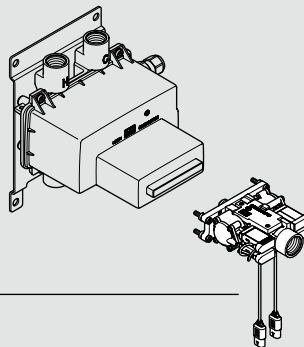
- Installed directly behind the water outlet point (direct feedback when the temperature and volume change)
- Supports water scenarios
- Diagnostic capability
- Update capability
- Supports thermal disinfection
- Automatic scald protection

## Concealed rough parts for eValve

35 215 970 90 – with 25 m cable  
35 216 970 90 – with 10 m cable  
Concealed rough parts

## eValve Electronic valve

35 315 970 90  
Exposed trim parts



Additional downloads:

[eValve installation instructions](#) (35 315 970 90)

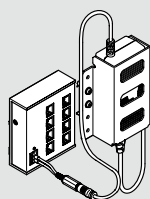
[Installation instructions for eValve concealed rough parts](#) (35 215 970 90 // 35 216 970 90)

# eSWITCH

43 000 970 90

## eSwitch

43 000 970 90

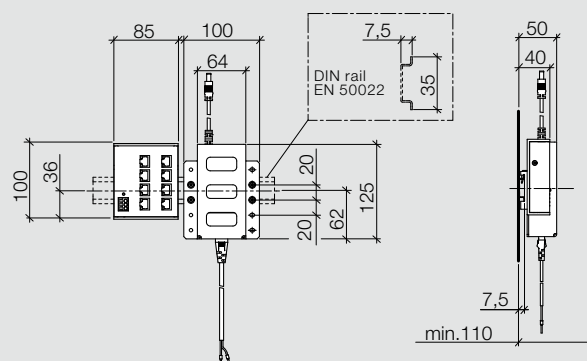
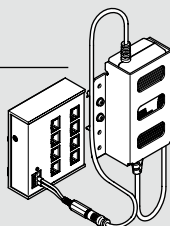


- eSwitch with 8 ports for connecting max. seven eValves/eTools and one service port
- The marked service port is provided for using the Dornbracht eAssist software
- Switched-mode power supply with 12 VDC voltage supply for eSwitch
- Input voltage for switched-mode power supply: 100 to 240 VAC, 50 to 60 Hz
- Nominal rating for switched-mode power supply: 60 W
- 1 x power supply adapter with 2 single part flexes, 1.5 mm<sup>2</sup>

**Note: Only the eSWITCH service port can be connected to a notebook/PC. The other ports are supplied with 12 VDC and can merely be used with eVALVES or eTOOL.**

### eSwitch

43 000 970 90  
Exposed trim parts



Additional downloads:

[eSwitch installation instructions](#) (43 000 970 90)

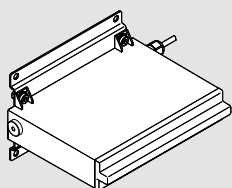
Basics	Assembly	TRIM PARTS	· eTOOL WALL INSTALLATION BOX
Components	Data and standards	· ROUGH PARTS	CONCEALED ROUGH PARTS FOR eVALVE
Safety zones	· <a href="#">Product overview</a>		CONCEALED ROUGH PARTS FOR eVALVE (WATER BAR)
Pre-wall system	Checklists		xGRID INSTALLATION TRACKS

## eTOOL WALL INSTALLATION BOX

35 210 970 90  
35 211 970 90

**Wall installation box, eTool with 25 m cable**  
**Wall installation box, eTool with 10 m cable**

35 210 970 90  
35 211 970 90



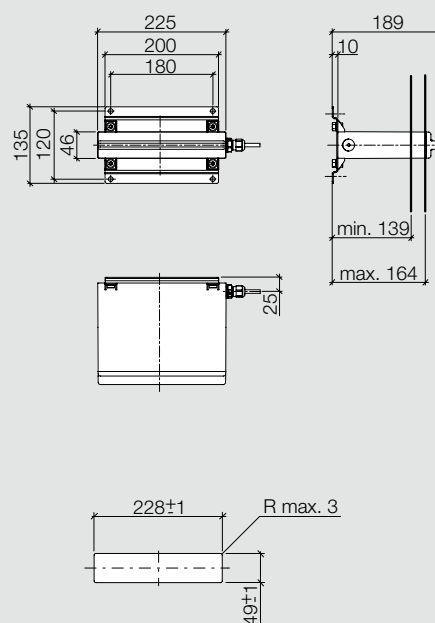
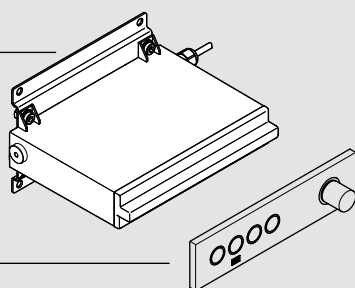
- Mounting kit
- Dust cover
- Anti-water packing
- Stainless steel tile protection template
- Min. recess depth (incl. xGrid installation track) 151 mm
- It is advisable to use a pre-wall installation
- Cable length 10 m (35 211 970 90) or 25 m (35 210 970 90)

### Wall installation box for eTool

35 210 970 90 – with 25 m cable  
35 211 970 90 – with 10 m cable  
Concealed rough parts

### eTool Electronic control panel

42 714 979-00 polished chrome  
42 714 979-06 platinum matt  
Exposed trim parts



Additional downloads:

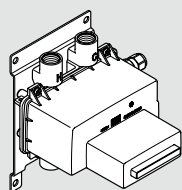
[Installation instructions for eTool concealed rough parts](#) (35 210 970 90 // 35 211 970 90)

[eTool installation instructions](#) (42 714 979)

Basics	Assembly	TRIM PARTS	eTOOL WALL INSTALLATION BOX
Components	Data and standards	· ROUGH PARTS	· CONCEALED ROUGH PARTS FOR eVALVE
Safety zones	· Product overview		CONCEALED ROUGH PARTS FOR eVALVE (WATER BAR)
Pre-wall system	Checklists		xGRID INSTALLATION TRACKS

## CONCEALED ROUGH PARTS FOR eVALVE

35 215 970 90  
35 216 970 90



**Concealed rough parts (120 x 60 mm) for eValve with 25 m cable**  
**Concealed rough parts (120 x 60 mm) for eValve with 10 m cable**

35 215 970 90  
35 216 970 90

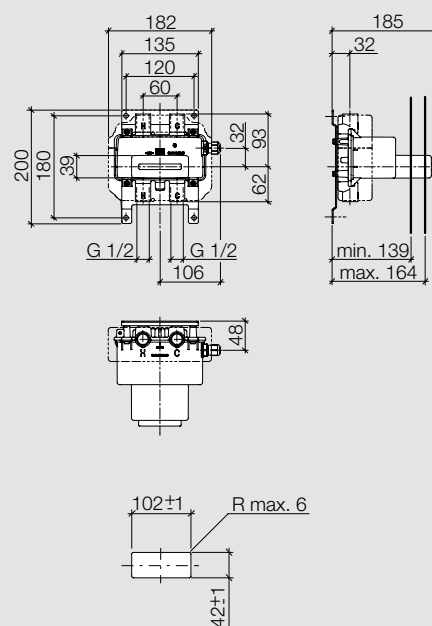
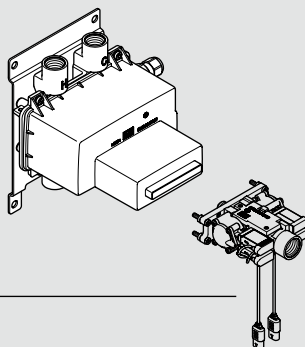
- For eValve in combination with ceiling-fitted JustRain (41 507 979), wall-fitted JustRain (41 550 979), WaterSheet (13 415 979) and hand shower (27 818 979)
- Concealed body, lead-free brass
- 2 x 1/2" female thread connectors (hot/cold)
- Electricity supply: 12 VDC via eSwitch
- 2 x 1/2" female thread outlets (hot/cold) for loop
- Mounting kit
- Dust cover
- Anti-water packing
- Operating system: MS Windows CE 6.0
- Min. recess depth (incl. xGrid installation track) 151 mm
- It is advisable to use a pre-wall installation

### Concealed rough parts for eValve

35 215 970 90 – with 25 m cable  
35 216 970 90 – with 10 m cable  
Concealed rough parts

### eValve Electronic valve

35 315 970 90  
Exposed trim parts



Additional downloads:

[Installation instructions for eValve concealed rough parts](#) (35 215 970 90 // 35 216 970 90)

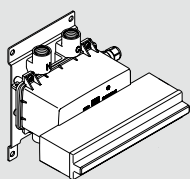
[eValve installation instructions](#) (35 315 970 90)

# CONCEALED ROUGH PARTS FOR eVALVE (WATER BAR)

35 217 970 90  
35 218 970 90

**Concealed rough parts (240 x 60 mm) for eValve with 25 m cable**  
**Concealed rough parts (240 x 60 mm) for eValve with 10 m cable**

35 217 970 90  
35 218 970 90



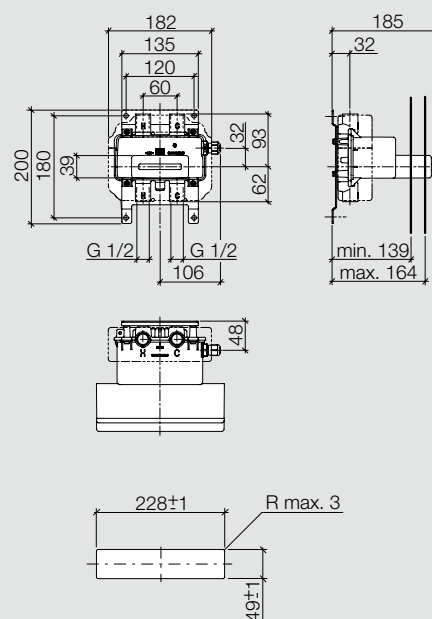
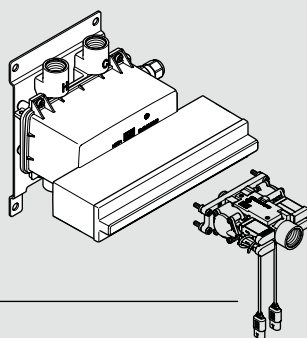
- For eValve in combination with WaterBar (36 517 979)
- Concealed body, lead-free brass
- 2 x 1/2" female thread connectors (hot/cold)
- Electricity supply: 12 VDC via eSwitch
- 2 x 1/2" female thread outlets (hot/cold) for loop
- Mounting kit
- Dust cover
- Anti-water packing
- Operating system: MS Windows CE 6.0
- Min. recess depth (incl. xGrid installation track) 151 mm
- It is advisable to use a pre-wall installation

## Concealed rough parts for eValve

35 217 970 90 – with 25 m cable  
35 218 970 90 – with 10 m cable  
Concealed rough parts

## eValve Electronic valve

35 315 970 90  
Exposed trim parts



Additional downloads:

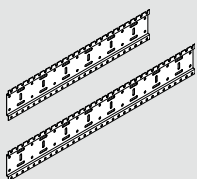
[Installation instructions for eValve concealed rough parts](#) (35 217 970 90 // 35 218 970 90)

[eValve installation instructions](#) (35 315 970 90)

Basics	Assembly	TRIM PARTS	eTOOL WALL INSTALLATION BOX
Components	Data and standards	· ROUGH PARTS	CONCEALED ROUGH PARTS FOR eVALVE
Safety zones	· <b>Product overview</b>		CONCEALED ROUGH PARTS FOR eVALVE (WATER BAR)
Pre-wall system	Checklists		· xGRID INSTALLATION TRACKS

## xGRID INSTALLATION TRACKS

12 315 970 90  
12 320 970 90



**xGrid installation track, 750 mm**  
**xGrid installation track, 990 mm**

- Fixing screws and dowels
- Width 750 mm/990 mm
- Height 135 mm
- Depth 12 mm

More about the xGrid installation track can be found in the planning appendix to the Symetrics brochure.

12 315 970 90  
12 320 970 90

12 300 970 90



**Connection kit**

For connecting horizontally and vertically installed xGrid installation tracks.

12 300 970 90

**xGrid  
Installation tracks**

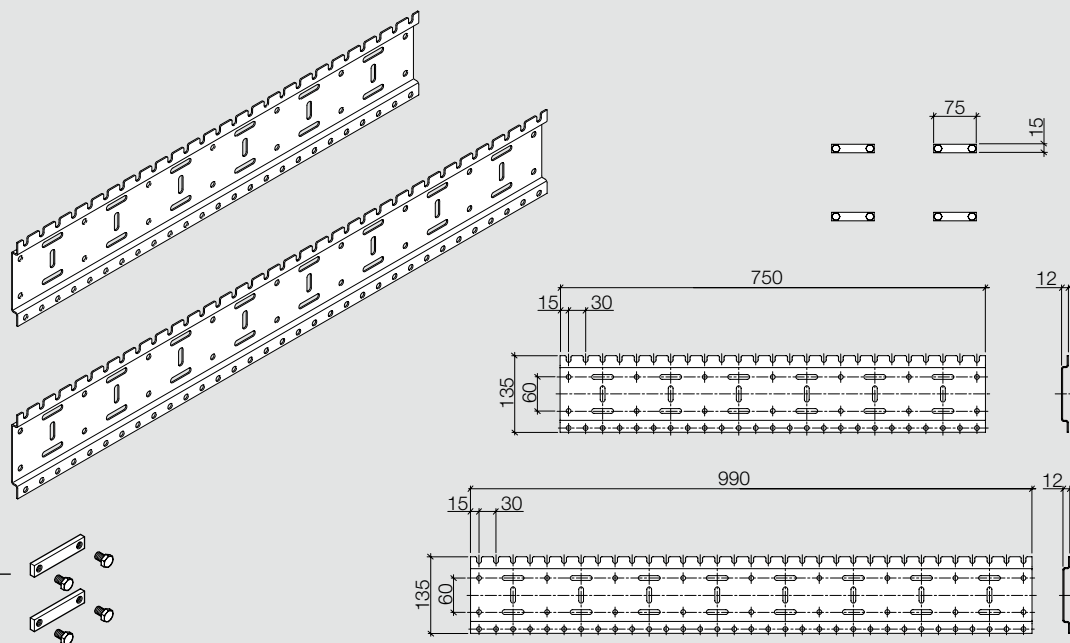
12 315 970 90 – 750 mm  
Concealed rough parts

**xGrid  
Installation tracks**

12 320 970 90 – 990 mm  
Concealed rough parts

**Connection kit**

12 300 970 90  
Concealed rough parts



Additional downloads:

[Installation instructions for xGrid installation tracks](#) (12 315 970 90 // 12 320 970 90 // 12 300 970 90)

# PLUMBING PLANNING ADVICE

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

<input type="checkbox"/>	Possible pre-wall system (recess depth including xGRID min. 151 mm - max. 176 mm)
<input type="checkbox"/>	Suspended ceiling construction (recess depth including xGRID min. 151 mm - max. 176 mm)
<input type="checkbox"/>	Alignment and attachment of the xGRID installation track
<input type="checkbox"/>	Maximum distance (25 m) of the concealed boxes from the main board or sub-distribution board
<input type="checkbox"/>	Supply pipes (loop) → CW + HW DN 15
<input type="checkbox"/>	Storage capacity is calculated on an individual basis → recommended storage capacity 500 l (scenario)
<input type="checkbox"/>	Cold-water temperature range 5-20 °C
<input type="checkbox"/>	Maximum hot-water temperature 65 °C
<input type="checkbox"/>	Minimum hot-water temperature 50 °C
<input type="checkbox"/>	Explain about water hardness → recommended water hardness 6-7° dH
<input type="checkbox"/>	Minimum flow pressure 2.5 - 4.0 bar → recommended flow pressure 3.0 bar
<input type="checkbox"/>	Maximum difference in flow pressure between hot and cold water: 1.0 bar
<input type="checkbox"/>	Pre-seal provided in supply pipes HW and CW DN 20
<input type="checkbox"/>	Explain benefit of main filter system
<input type="checkbox"/>	Individual outflow calculation, taking all outlet points into consideration → recommendation 1.5 l/sec.

ATT system partner	Property
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.....	.....

Project/order confirmation no.:

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Hot-water temperature:	Flow pressure:
.....	.....

Cold-water temperature:	Flow pressure:
.....	.....

Date:	Signature of ATT system partner
.....	.....



## ELECTRICAL PLANNING ADVICE

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

- |  |
|--|
| <input type="checkbox"/> eSWITCH installation → main board or sub-distribution board                                       |
| <input type="checkbox"/> Maximum distance (25 m) from main board/sub-distribution board to the ATT system                  |
| <input type="checkbox"/> Equipotential bonding (4 mm <sup>2</sup> ) to each eVALVE and to eTOOL                            |
| <input type="checkbox"/> Lead wire 3 x 1.5 mm <sup>2</sup> NYM   |
| <input type="checkbox"/> Individual protection by 30 mA earth-leakage circuit breakers                                     |
| <input type="checkbox"/> Safety cut-out B 16 A   |
| <input type="checkbox"/> Circuit-breaker switch (16 A, 1 make contact, 230 V AC)   |
| <input type="checkbox"/> VDE 0100-compliant installation, please conform to national statutory regulations where different |
| <input type="checkbox"/> Recommended cable ductwork 32 mm + 20 mm  |

ATT system partner

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Property

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Project/order confirmation no.:

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Date:

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Signature of ATT system partner

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# PLUMBING ROUGH-IN

The following items are particularly important:

<input type="checkbox"/>	Alignment and attachment of the xGRID installation track, taking the height of the user into consideration
<input type="checkbox"/>	Checking correct positioning of concealed bodies → WATER BAR / WATER SHEET / JUST RAIN / eTOOL
<input type="checkbox"/>	Checking attachment of concealed bodies
<input type="checkbox"/>	Fitted anti-water packing
<input type="checkbox"/>	Checking min. / max. recess depth
<input type="checkbox"/>	Checking hot and cold water supply pipes
<input type="checkbox"/>	Checking minimum distance from circulation pipe to eVALVE (min. 900 mm)
<input type="checkbox"/>	Rinsing pipes
<input type="checkbox"/>	Checking the application for leaks
<input type="checkbox"/>	Pre-seal considered in supply pipes e.g. wall valves DN 20

## Other trades

Please check the work of other trades at regular intervals.

- Check wall installation
- Check wall construction. Tiles, marble, etc.
- Check tile/marble cutout (concealed box)

ATT system partner

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Property

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Project/order confirmation no.:

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Date:

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Signature of ATT system partner

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# ELECTRICAL ROUGH-IN

The following items are particularly important:

<input type="checkbox"/>	eSWITCH installation → main board or sub-distribution board
<input type="checkbox"/>	Maximum distance (25 m) from main board/sub-distribution board to the ATT system
<input type="checkbox"/>	Equipotential bonding (4 mm <sup>2</sup> ) to each eVALVE and to eTOOL
<input type="checkbox"/>	Individual protection by 30 mA earth-leakage circuit breakers
<input type="checkbox"/>	Safety cut-out 16 A
<input type="checkbox"/>	Circuit-breaker switch (16 A, 1 make contact, 230 V AC)
<input type="checkbox"/>	Electrical installation must be carried out by a professional specialist, in accordance with VDE 0100 and comply with national statutory regulations, where different
<input type="checkbox"/>	Recommended cable ductwork 32 mm + 20 mm
<input type="checkbox"/>	Check power supply unit output for voltage, 12 VDC
<input type="checkbox"/>	Check wiring of Ethernet connectors (RJ45)
<input type="checkbox"/>	eSWITCH installation as per installation instructions

## Other trades

Please check the work of other trades at regular intervals.

- Check wall installation
- Check wall construction. Tiles, marble, etc.
- Check tile/marble cutout (concealed box)

ATT system partner

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 .....

Property

.....  
 .....

Project/order confirmation no.:

.....

Date:

.....

Signature of ATT system partner

.....

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CN	Dornbracht (Shanghai) Commercial Ltd.	Phone +86 (0)21-6360 6930 +86 (0)21-5150 6775
IN	Dornbracht India Private Ltd.	Phone +91 22-25705755

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