



Dornbracht

Comfort Shower^{ATT}

Checklists – installation supervision

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INTRODUCTION

Planning advice

Concealed rough parts

Exposed trim parts / commissioning

Introduction

It is obligatory for technical planning, installation and initial commissioning to be accompanied by a certified system partner or by booking a Dornbracht service package. Detailed information on the service package can be found at www.dornbracht-professional.com.

Planning advice

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Order number (SO)

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Project / end customer

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Address

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Phone

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E-Mail

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Additional contact

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Phone

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E-Mail

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Person responsible for planning

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Address

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Phone

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E-Mail

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Fitter

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Address

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Phone

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E-Mail

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Electrician

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Address

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Phone

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E-Mail

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System partner / Dornbracht

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Address

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Phone

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Internal plumbing 1

Planning for the COMFORT SHOWER^{ATT} can be checked for completeness more easily with this checklist.

Operating conditions

Measuring point: Concealed rough parts for eVALVE (affusion pipe)

<input type="checkbox"/> Cold water temperature		5 – 20 °C /	41 – 68 °F
<input type="checkbox"/> Hot water temperature		55 – 65 °C /	131 – 149 °F
<input type="checkbox"/> Thermal disinfection (max. 15:00 mins.)		75 °C /	167 °F
<input type="checkbox"/> Permissible flow pressure	250 – 400 kPa /	36 – 58 psi /	2.5 – 4 bar
<input type="checkbox"/> Recommended flow pressure	300 kPa /	44 psi /	3 bar
<input type="checkbox"/> Difference in flow pressure between HW and CW	max. 100 kPa /	14.5 psi /	1.0 bar
<input type="checkbox"/> Recommended water hardness	6 – 7 °dH / 107 – 125 ppm /	7.5 – 8.8 °e /	10.7 – 12.5 °fH

Special features / comments

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Electrician

Internal plumbing 2

Planning for the COMFORT SHOWER^{ATT} can be checked for completeness more easily with this checklist.

Internal plumbing

- Pipework calculation (in accordance with EN 806-3, DIN 1988-300)
- Assessment of demand for the hot water supply on an individual basis (e. g. in accordance with DIN 4708-200, DIN 4753-7, VDI 6003)
- Assessment of demand for the drain on an individual basis (e. g. in accordance with DIN 1986-100, EN 12056-1/-2), AW 1.8 l/s / 0.5 gps, DN 75 / NPS 3"
- The following components for the hot and cold water pipe must be positioned so that access is possible at all times (accessible for inspection): 2 x stop valve (DN 20), 2 x strainer (DN 20), system plate.
- Filter (main pipe)
- Pressure reducing valve (main pipe)
- Water softener (main pipe)
- Speed-controlled pressure booster (e. g. in accordance with DIN 1988-500)
- 900 mm / 2 ft 11-3/8" minimum distance between the circulation pipe connection (circ.) and the first eVALVE of the COMFORT SHOWER^{ATT}
- 2,800 mm / 9 ft 2-1/4" maximum distance from the system plate to BIG RAIN
- 300 mm / 11-3/4" maximum height difference from the system plate to BIG RAIN (centre of xGRID track / top edge of suspended ceiling)
- 300 mm / 11-3/4" minimum distance (centre / centre) of concealed rough parts for WATER FALL with PEARL STREAM, WATER BARS

Required nominal diameter (DN) for pipes and fittings:

- DN 20 – hot and cold water pipe (HW + CW)
- DN 20 – ring main (loop)
- DN 15 – system plate feed pipes
- Testing the rough-in for leaks (in accordance with EN 806-4 / DIN 1988-200)
- Flushing the pipes after rough-in (in accordance with EN 806-4 / DIN 1988-200)

Special features / comments

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Person responsible for planning	Fitter	Electrician

Dry wall construction

Planning for the COMFORT SHOWER^{ATT} can be checked for completeness more easily with this checklist.

Pre-wall system

- Compliance with building services fire protection.
- 200 mm / 8" minimum distance of the suspended ceiling to the bottom edge of the finished ceiling
- 350 x 600 mm / 1 ft 1-5/8" x 1 ft 11-5/8" minimum size of the inspection opening
- 250 mm / 10" minimum thickness of the lightweight wall

Note the recess depths of the components:

- Wall with wall components: min. 153 mm – max. 176 mm
(WATER FALL with PEARL STREAM, WATER BARS, affusion pipe)
- Bench / wall with control elements: min. 141 mm
- Maximum thickness of the panelling for the control elements 30 mm
- Construction (tiles, natural stone, etc.), for the control elements 7 – 25 mm
- Ceiling with BIG RAIN: min. 200 mm
to the bottom edge of the finished ceiling
- System plate 72 mm
- The weight of the ceiling construction must not be carried by BIG RAIN.
- 12.5 mm / 1/2" maximum thickness of the ceiling panelling
- Profiles must be attached along the longer sides of the ceiling cutout.
- 200 – 250 mm / 8" – 10" (centre / centre) distance between BIG RAIN and the profiles of the ceiling construction.
- A structural engineer must design a suitable structure to span the distance between BIG RAIN and the ceiling
(at least 150 mm / 6").
- A structural engineer should select suitable fixing materials for the particular ceiling.

Special features / comments

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Electrical installation 1

Planning for the COMFORT SHOWER^{ATT} can be checked for completeness more easily with this checklist.

Positioning

- The system plate and power supply installations must be physically separate.
- The system plate must not be installed above the power supply.

System plate

- 2,800 mm / 9 ft 2-1/4" maximum distance from the system plate to BIG RAIN
- 300 mm / 11-3/4" maximum height difference from the system plate to BIG RAIN (centre of xGRID track / top edge of suspended ceiling)
- accessible for inspection
- 5 – 55 °C / 41 – 131 °F ambient temperature

Fuse box with electrical components

- 12,000 mm / 39 ft 4-3/8" maximum distance to the system plate
- outside the wet zone
- accessible for inspection
- 5 – 35°C / 41 – 95°F ambient temperature
- Space required for electrical components in the fuse box: min. 500 x 500 x 150 mm / 1 ft 7-3/4" x 1 ft 7-3/4" x 6" (inside)

Provided by customer:

- Safety cut-out (6 A, type B)
- Earth-leakage circuit breaker (30 mA 2-pin, type A),
- 1 x circuit-breaker switch (16 A)
- 2 x DIN rail mounting TS 35
- Equipotential bonding strip
- A network socket wired in accordance with TIA 568A, if necessary
- Equipotential bonding at the fuse box and within the fuse box (4 mm² / AWG 11)
- 1 x conduit Ø 20 mm / Ø 3/4" to max. 12,000 mm / 39 ft 4-3/8" (for the power supply from the fuse box to the system plate)
- 1 x conduit Ø 32 mm / Ø 1-1/4" to max. 12,000 mm / 39 ft 4-3/8" (for the equipotential bonding cable from the fuse box to the system plate)
- 1 x conduit Ø 20 mm / Ø 3/4" to max. 12,000 mm / 39 ft 4-3/8" (for the system plate equipotential bonding cable and the Ethernet cable from the fuse box to the system plate)

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Electrical installation 2

Planning for the COMFORT SHOWER^{ATT} can be checked for completeness more easily with this checklist.

Installation

- Electrical installation must be carried out by a professional specialist, in accordance with DIN VDE 0100.
- As part of the cable length is required for connection, the conduits must be correspondingly shorter.
- Do not roll up excess cable lengths. Shorten the excess cable lengths or fasten them in a meandering pattern.
- 5 x equipotential bonding 4 mm² for the system plate, WATER FALL with PEARL STREAM, 2 x WATER BAR and affusion pipe.
- The VBUS connection of the electrical components (daisy chain) must finish with a terminator.
- Daisy chain in accordance with the planning information.
- The total length of the daisy chain must not exceed 30,000 mm / 98 ft 5-1/8".
- The concealed rough parts for eVALVES and SMART TOOLS, as well as the VBUS cable must be fitted and tested before the pre-wall is closed.
- 90 mm / 3-1/2" minimum horizontal and/or vertical distance (centre / centre) for SMART TOOLS
 - The distance must never be less than this!-
- Ø 56 mm drilled hole in the panelling for the control element concealed rough parts
- 42±1 x 42±1 mm cutout in the wall construction (tiles, natural stone, etc.)

Special features / comments

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Concealed rough parts

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Dry wall construction / plumbing

Rough-in for the COMFORT SHOWER^{ATT} can be checked more easily for completeness with this checklist.

Checks to be made:

- A bench construction with adequate structural strength
- A slight slope to the top of the bench
- Recess depths (min. / max.) in the bench, the wall and the ceiling
- A ceiling cutout for BIG RAIN in accordance with the planning information
- A suitable structure to span the distance between BIG RAIN and the ceiling (at least 150 mm / 6")
- The mounting and horizontal alignment of the eVALVE concealed rough parts
- The mounting of the waterproof packing (eVALVE concealed rough parts, SMART TOOLS concealed rough parts)
- 900 mm / 2 ft 11-3/8" minimum distance between the circulation pipe connection (circ.) and the first eVALVE of the COMFORT SHOWER^{ATT}

Required nominal diameter (DN) for pipes and fittings:

- DN 20 – hot and cold water pipe (HW + CW)
- DN 20 – ring main (loop)
- DN 15 – system plate feed pipes

In the main pipe:

- Filter
- Pressure reducing valve
- Water softener, if necessary
- Speed-controlled pressure booster, if necessary

Component mounting and accessibility for inspection:

- 2 x stop valve (DN 20)
- 2 x strainer (DN 20)
- 2 x Y press and flush device
- Report on testing the concealed rough parts for leaks in accordance with EN 806-4 / DIN 1988-200
- Report on flushing the pipes after rough-in, in accordance with EN 806-4 / DIN 1988-200

Special features / comments

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Electrical installation

Rough-in for the COMFORT SHOWER^{ATT} can be checked more easily for completeness with this checklist.

Checks to be made:

- Maximum distances: fuse box, system plate, BIG RAIN, concealed rough parts for eVALVE, SMART TOOLS
- Conduits in accordance with the planning information
- Electrical installation must be carried out by a professional specialist, in accordance with DIN VDE 0100. Please conform to national statutory regulations, where different.

Dimensions, positions and accessibility for inspection, mounting if necessary:

- Space must be provided for the system plate.
- Fuse box with 2 x DIN rail mountings TS 35 and an equipotential bonding strip
- Minimum distances: BIG RAIN (ceiling), concealed rough parts for eVALVE, SMART TOOLS
- All cables installed without damage.
- VBUS cables between the system plate, WATER FALL with PEARL STREAM, WATER BARS, affusion pipe and control elements
- Daisy chain in accordance with the planning information.
- Excess cable lengths not rolled up. Cables shortened or fastened in a meandering pattern.
- Test all cables.

Arriving at the fuse box:

- 1 x Ethernet cable
- 1 x power supply (12 V DC, 5 A)
- 5 x equipotential bonding 4 mm² for the system plate, WATER FALL with PEARL STREAM, 2 x WATER BAR and affusion pipe

In the fuse box:

- Safety cut-out (6 A, type B)
- Earth-leakage circuit breaker (30 mA 2-pin, type A)
- 1 x circuit-breaker switch (16 A)
- Network connection in accordance with TIA 568A, if necessary

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Exposed trim parts / commissioning

Supervision of final assembly and COMFORT SHOWER^{ATT} commissioning are easier with this checklist.

Checks to be made:

- (Hot and cold water) pipe flushing at BIG RAIN
- Flush each concealed body separately before fitting the eVALVES.
- Report on flushing the pipes after rough-in, in accordance with EN 806-4 / DIN 1988-200, if necessary
- Completeness of the scope of supply of the concealed rough parts - Once the packaging is open, install the components immediately.-
- The mounting and horizontal alignment of BIG RAIN
- COMFORT SHOWER^{ATT} fully and securely mounted (ceiling module (BIG RAIN, system plate), WATER FALL with PEARL STREAM, 2 x WATER BAR; affusion pipe, control elements, electrical components)
- Accessibility for inspection (system plate, electrics and components for the hot and cold water pipe)
- Daisy chain in accordance with the planning information
- Terminator at the end of the VBUS cables
- Components provided by customer fully and securely mounted
- Nameplate in the fuse box attached where it can be seen (e. g. door)
- Voltage in the fuse box (100 – 240 V AC, 12 V DC)
- Power supply cable wires (12 V DC) connected correctly at the DC filter.
- Voltage at the system plate (power supply unit output) (12 V DC)

Commissioning:

- Open the cutoff for the cold and hot water supply.
- Check all the functions of the COMFORT SHOWER^{ATT} individually in accordance with the operating manual.
- Instruct the operator / owner how to operate the COMFORT SHOWER^{ATT}.
- Hand over the Quick Info and operating manual.
- Confirm that the COMFORT SHOWER^{ATT} is working perfectly:

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Signature (operator / owner of the COMFORT SHOWER^{ATT})

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Person responsible for planning

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Fitter

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