DORN BRACHT

Dornbracht

Leg Shower^{ATT}

Checklists – installation supervision

Version 1.1

Culturing Life

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)

…….. Project / end customer	…….. Address	
…….. Phone	…….. E-Mail	
…….. Additional contact	…….. Phone	…….. E-Mail
…….. Person responsible for planning	…….. Address	
…….. Phone	…….. E-Mail	
…….. Fitter	…….. Address	
…….. Phone	…….. E-Mail	
…….. Electrician	…….. Address	
…….. Phone	…….. E-Mail	
…….. System partner / Dornbracht	…….. Address	
…….. Phone	…….. E-Mail	

Internal plumbing 1

Planning for the LEG SHOWER[ATT] can be checked for completeness more easily with this checklist.

Operating conditions

☐ Cold water temperature			5 – 20 °C /	41 – 68 °F
☐ Hot water temperature			55 – 65 °C /	131 – 149 °F
☐ Thermal disinfection (max. 15:00 mins.)			75 °C /	167 °F
☐ Permissible flow pressure		250 – 400 kPa /	36 – 58 psi /	2.5 – 4 bar
☐ Recommended flow pressure		300 kPa /	44 psi /	3 bar
☐ Difference in flow pressure between HW and CW		max. 100 kPa /	14.5 psi /	1.0 bar
☐ 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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Order number (SO)

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City	Date	**System partner / Dornbracht**
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Person responsible for planning	**Fitter**	**Electrician**

Internal plumbing 2

Planning for the LEG 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 0.6 l/s / 0.2 gps, (with COMFORT SHOWER^{ATT} 2.4 l/s / 0.6 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), booster 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 booster plate
- ☐ 2800 mm / 9 ft 2-1/4" maximum distance of the booster plate to the centre of the concealed rough parts for the LEG SHOWER^{ATT}
- ☐ 500 mm / 1 ft 7-3/4" minimum height difference between the top edge of the finished floor (TEFF) and the booster plate (centre of the xGRID track)

Required nominal diameter (DN) for pipes and fittings:

- ☐ DN 25 – COMFORT SHOWER^{ATT} + LEG SHOWER^{ATT} - hot and cold water pipe (HW + CW)
- ☐ DN 20 – LEG SHOWER^{ATT} - hot and cold water pipe (HW + CW)

- ☐ 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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Dry wall construction

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

Pre-wall system

☐ Compliance with building services fire protection.

☐ 500 mm / 1 ft 7-3/4" minimum height difference between the top edge of the finished floor (TEFF) and the booster plate (centre of the xGRID track)

☐ 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:

☐ Bench with LEG SHOWER^{ATT} concealed rough parts

External length (recommended)	1600 mm
Sides (recommended)	850 mm x 400 mm
Seat (recommended)	550 mm x 800 mm
Shower area (recommended)	800 X 300 mm

☐ 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

☐ Booster plate — 72 mm

☐ 500 mm / 1 ft 7-3/4" minimum seat height

☐ The weight of the bench construction must not be carried by the LEG SHOWER^{ATT}.

☐ The customer must provide suitable fixing materials for the particular floor.

Special features / comments

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Person responsible for planning	**Fitter**	**Electrician**

Electrical installation 1

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

Positioning

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

Booster plate

- ☐ 2800 mm / 9 ft 2-1/4" maximum distance of the booster plate to the centre of the concealed rough parts for the LEG SHOWER^{ATT}
- ☐ 500 mm / 1 ft 7-3/4" minimum height difference between the top edge of the finished floor (TEFF) and the booster plate (centre of the xGRID track)
- ☐ accessible for inspection
- ☐ 5 – 55°C / 41 – 131°F ambient temperature

Fuse box with electrical components

- ☐ 12000 mm / 39 ft 4-3/8" maximum distance to the booster 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
- ☐ Equipotential bonding at the fuse box and within the fuse box (4 mm² / AWG 11)
- ☐ 1 x conduit Ø 20 mm / Ø 13/4" to max. 12000 mm / 39 ft 4-3/8" (for the equipotential bonding cable from the fuse box to the booster plate)
- ☐ 1 x conduit Ø 20 mm / Ø 3/4" to max. 12000 mm / 39 ft 4-3/8" (for the power supply from the fuse box to the booster plate)
- ☐ If the cables inside the lightweight wall are routed as far as the shower conduits, there is no need for separate conduits. Do not run the power supply through the same conduit with equipotential bonding or Ethernet.

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Electrical installation 2

Planning for the LEG 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.
- ☐ 1 x equipotential bonding 4 mm² for the booster plate
- ☐ 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 30000 mm / 98 ft 5-1/8".
- ☐ The concealed rough parts for the LEG SHOWER^{ATT} 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 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 LEG 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
- ☐ The weight of the bench construction must not be carried by the LEG SHOWER^{ATT}.
- ☐ Recess depths (min. / max.) in the bench and the wall
- ☐ The mounting and horizontal alignment of the LEG SHOWER^{ATT} concealed rough parts
- ☐ The mounting of the waterproof packing (LEG SHOWER^{ATT} concealed rough parts, SMART TOOLS concealed rough parts)
- ☐ 900 mm / 2 ft 11-3/8" minimum distance between the circulation pipe connection (Z) and the booster plate

Required nominal diameter (DN) for pipes and fittings:

- ☐ DN 25 – COMFORT SHOWER^{ATT} + LEG SHOWER^{ATT} - hot and cold water pipe (HW + CW)
- ☐ DN 20 – LEG SHOWER^{ATT} - hot and cold water pipe (HW + CW)

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

Checks to be made:

- ☐ Maximum distances: fuse box, booster plate, concealed rough parts for the LEG SHOWER^{ATT}, 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 booster plate.
- ☐ Fuse box with 2 x DIN rail mountings TS 35 and an equipotential bonding strip

- ☐ Minimum distances: booster plate (floor), SMART TOOLS
- ☐ All cables installed without damage.
- ☐ VBUS cables between the shower (COMFORT SHOWER^{ATT}), booster plate and control element
- ☐ Daisy chain in accordance with the planning information (terminator in the LEG SHOWER^{ATT} control element).
- ☐ Excess cable lengths not rolled up. Cable shortened or fastened in a meandering pattern.
- ☐ Test all cables.

Arriving at the fuse box:

- ☐ 1 x power supply (12 V DC, 5 A)
- ☐ 1 x equipotential bonding 4 mm² / AWG 11 for the booster plate

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)

Special features / comments

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Exposed trim parts / commissioning

…….. Order number (SO)	…….. Serial number	…….. Date of initial commissioning
…….. Project / end customer	…….. Address	
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…….. Person responsible for planning	…….. Address	
…….. Phone	…….. E-Mail	
…….. Fitter	…….. Address	
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Exposed trim parts / commissioning

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

Checks to be made:

- ☐ (Hot and cold water) pipe flushing at the LEG SHOWER^{ATT}
- ☐ Flush each outlet point before fitting the exposed trim parts.
- ☐ Report on flushing the pipes after rough-in, in accordance with EN 806-4 / DIN 1988-200
- ☐ Completeness of the scope of supply of the concealed rough parts - Once the packaging is open, install the components immediately.-
- ☐ LEG SHOWER^{ATT} fully and securely mounted (4 x WATER BAR, control element, electrical components)
- ☐ Accessibility for inspection (booster 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 booster 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 LEG SHOWER^{ATT} individually in accordance with the operating manual.
- ☐ Instruct the operator / owner how to operate the LEG SHOWER^{ATT}.
- ☐ Hand over the Quick Info and operating manual.
- ☐ Confirm that the LEG SHOWER^{ATT} is working perfectly:

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

Special features / comments

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Person responsible for planning	**Fitter**	**Electrician**

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