

# Test of Emergency Showers

CHECK AREA	TEST DESCRIPTION*	APPROVED
Marking/signs	Safety sign must be in accordance with ISO 3864-1, clearly visible and unmistakable.	
Free space	Free space under shower head must be 800mm in diameter. Eye wash may protrude from it. Floor label is available (BROEN-LAB item no. 96M0366).	
Installation height	The shower head must be installed at $2200 \pm 100$ mm from the floor to the lowest edge of the shower head. See page 2 for illustration.	
Flow test	Place a test trolley (BROEN-LAB item no. 27570211000001) under the shower head. Video reference is available here: <a href="https://www.youtube.com/watch?v=14ef2bKxkoc">https://www.youtube.com/watch?v=14ef2bKxkoc</a>	
	To avoid any dirt or bacteria built-up inside the piping the shower should be flushed with min 30 liters of water.	
Valve	Maximum force for operation shall be 100N or max torque 7Nm. May not close automatically.	
Flow rate of water	Min. 60 l/min	
Water distribution	Conically shaped. See page 2 for illustration. For testing procedure please refer to EN 15154.	
Safety	Wipe the water off the floor to avoid fall injuries	

\* For more information and description please refer EN 15154

Tested and signed by:

Date:

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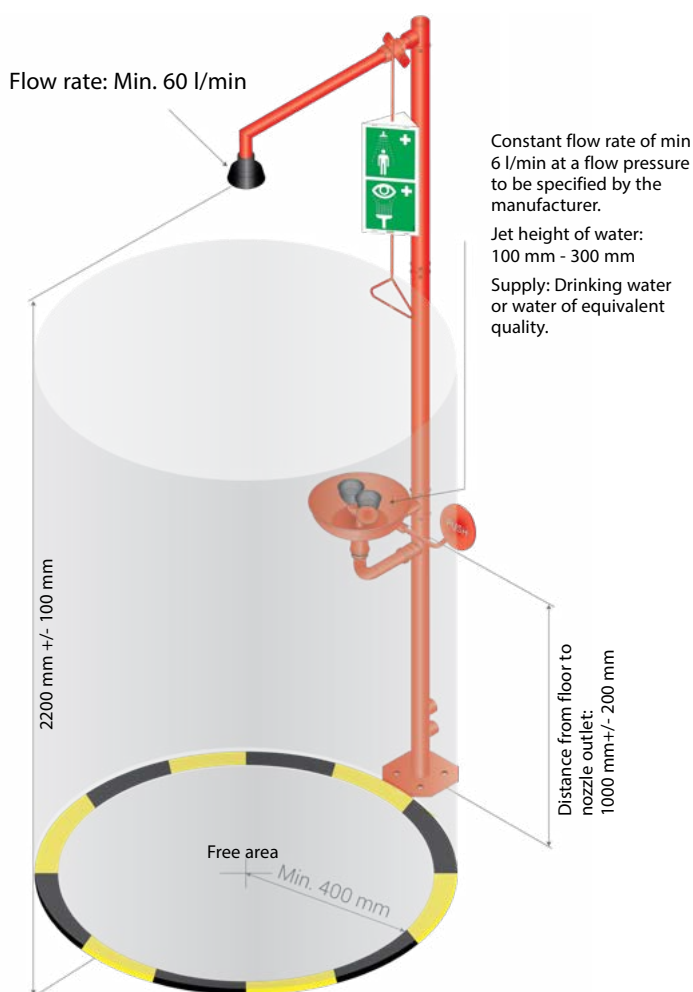
# NORM EN 15154-1&2

(European Committee for Standardization)

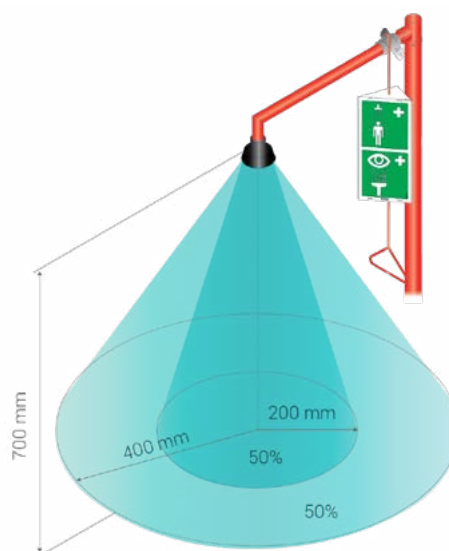
## MAIN REQUIREMENTS

- The water supplied by the body shower shall be of constant flow rate in accordance with national regulations at a flow pressure to be specified by the manufacturer. The flow pressure shall be specified and measured where the shower is connected to the water system. The body shower shall be capable of delivering this supply for a minimum of 15 minutes. Note: When no national or local regulations apply, a constant flow rate of min. 60 l/min is suitable.
- It shall only be possible to make adjustments with a tool to the direction of spray or the water distribution of a shower head. The shower head shall be self-draining between the valve and the outlet. The shower head shall be removable for maintenance but only by use of a tool.
- At a distance 700 mm below the shower head, 50% (+/- 10%) of the volume of water delivered shall fall in a circle with a radius of 200 mm; the water level in the individual compartments in this circle shall not deviate by more than 30% from the mean value. At this measuring level, the area reached by minimum 95% of the water shall be limited to a circle with a radius of 400 mm. The velocity of the water spray shall be low enough to be non-injurious to the user.
- The shower head shall be designed to be installed so that its lower edge is (2200 +/- 100) mm above the level on which the user stands.
- The valve shall not close automatically once it has been opened. The direction of operating the valve actuator shall be clearly visible and unmistakable.

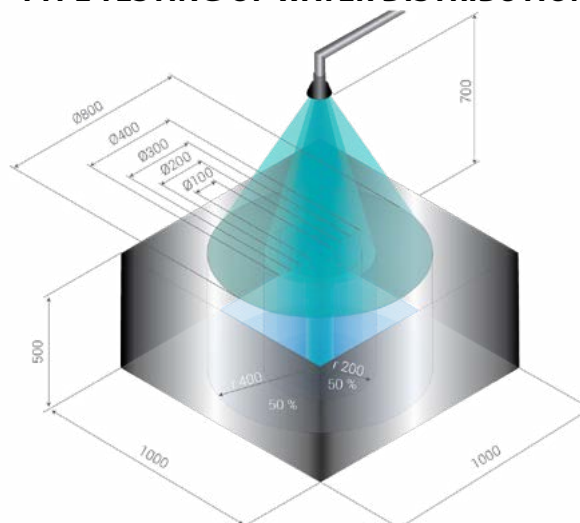
## OPEN SPACE



## WATER PATTERN



## TYPE TESTING OF WATER DISTRIBUTION



All dimensions in mm

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