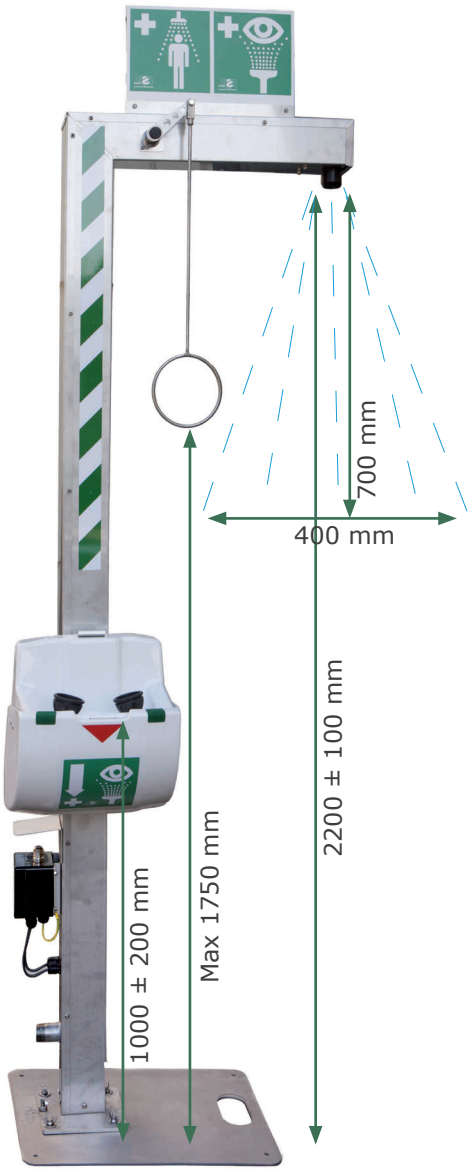
CHECKLIST

European Regulations for Emergency Eye Wash and Shower Equipment* Standard EN15154



Part 1 - plumbed-in laboratory showers

- ◯ 1. Is the water supplied by the body shower at a constant flow rate in accordance with national regulations at a flow pressure to be specified by the manufacturer. (a constant flow rate of min. 60 l/min is suitable where no regulations apply)? (4.1)
- ◯ 2. Is the body shower capable of delivering this supply for a minimum of 15 minutes? (4.1)
- ◯ 3. Is the water supply tepid - EN regulations 'informative' says between 15-37°C? (Annex A)

4. **Water distribution**

- ◯ a) At a distance of 700 mm below the shower head, does (50 ± 10) % of the volume of water delivered fall in a circle with a radius of 200 mm? (4.2)
- ◯ b) At ground level, is the area reached by minimum 95 % of the water limited to a circle with a radius of 400 mm? (4.2)
- ◯ 5. Is the shower head designed to be installed so that its lower edge is (2200 ± 100) mm above the level on which the user stands? (5.1)

6. **Free Space**

- ◯ a) Is the free space between the centre line of the shower head and the nearest obstruction (wall, vertical supply tube or similar) a circle with a minimum radius of 400 mm? (5.2)
- ◯ b) Does ONLY the valve control element and/or the eyewash station and/or the hand held shower on a combination shower project into this space by a maximum of 200 mm?

7. **Valve**

- ◯ a) For manual operation, can the valve be opened in a single operation by turning or moving a valve actuator to max. 90° or max. 200 mm stroke? (6)
- ◯ b) For automatic operation, is the valve fully open within 1 second? (6)
- ◯ c) Does the valve stay open (it shall NOT close automatically) once it has been opened? (6)
- ◯ d) Is the valve actuator large enough to be easily located and operated by the user even when wearing protective gloves? (6)
- ◯ e) Is the valve actuator positioned between floor level and max. 1750 mm above that level? (6)

Part 2 - plumbed-in eye washes

- ◯ 1. Does the eye wash deliver a constant flow rate of min. 6 l/min at a flow pressure to be specified by the manufacturer? (4.1)
- ◯ 2. Does the unit deliver this supply for a minimum of 15 minutes? (4.1)
- ◯ 3. Are the nozzle(s) protected from airborne contaminants (4.1)
- ◯ 4. Does the jet of water supplied by the nozzle(s) spray at a minimum height of 100 mm and at a maximum height of 300 mm, both measured from the nozzle centre, before tipping over or collapsing (4.2)
- ◯ 5. Is the water tepid? EN regulations 'informative' says between 15-37°C? (4.4, Annex A)
- ◯ 6. Is the outlet nozzle(s) mounted in fixed position installed at a height of (1000 ± 200) mm above the stand level and at least 150 mm from the nearest wall or obstruction? (5)
- ◯ 7. Is there enough room to allow both eyelids to be held open while the eyes are in the water flushing stream? (7)

8. **Valve**

- ◯ a) For manual operation, can the valve be opened in a single operation by turning or moving a valve actuator to max. 90° or max. 200 mm stroke and is the valve fully open within 1 second? (6)
- ◯ b) For automatic operation, is the valve fully open within 1 second and is it fail-safe at the open position if operated electrically? (6)
- ◯ c) Does the valve stay open (it must NOT close automatically) once it has been opened? (6)
- ◯ d) Is the valve actuator large enough to be easily located and operated by the user even when wearing protective gloves? (6)

*These EN standards apply to laboratory showers. There is no EN standard as yet for emergency safety showers used on industrial sites or in other such areas.

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