Certificate no. **SI-MEGH-BS8490-001** Date of issue **15 October 2026**

Certificate of Compliance

BS 8490:2025 · Siphonic roof drainage systems

This is to certify that the siphonic design software

Megh™ · Siphonic Drainage Calculator

BUILD 142 · RELEASED 11 OCTOBER 2026

designs siphonic roof drainage systems in accordance with BS 8490:2025, *Siphonic roof drainage systems — Guide*, read with BS EN 12056-3. Every design is checked against the recommendations below, and each check is shown as pass or fail in Megh's design report.

SCOPE OF COMPLIANCE

Clause	Check in Megh	Limit applied	
6.1	**Design flow**	Steady-state flow at the design rainfall, sized with a safety factor S_F of at least 1.1	✓
6.2, 6.5	**Available head**	Head loss from every roof outlet to the point of discharge not greater than the available head	✓
6.5	**Balancing of outlets**	Difference in head loss between outlets on a common downpipe of 1.0 m or 10 % of the available head, whichever is smaller	✓
6.3	**Minimum pressure**	Not below (2.5 − H_0) m for cavitation-prone pipe materials, otherwise (1.5 − H_0) m; checked for cavitation (Annex A.5)	✓
6.4	**Minimum velocity**	1.0 m/s in tailpipes and horizontal pipes; 2.2 m/s in downpipes	✓
6.7, 8.8	**Speed of priming**	Priming time of 60 s or less	✓
7.3	**Pipe size**	Internal diameter of at least 32 mm; blockage risk flagged below 44 mm	✓
8.2	**Roof outlets**	Flow at every outlet within its tested capacity; number of outlets checked against roof flow	✓
8.5, 8.7	**Tailpipes and downpipes**	No pipe enlargement going down a vertical pipe	✓
8.9	**Primary and secondary systems**	Designed and reported separately, including secondary systems for internal gutters	✓
8.10	**Discharge arrangements**	Exit velocity into the discharge chamber of 3 m/s or less	✓

Annex C — Testing of siphonic outlets. Megh uses each roof outlet's tested capacity, from its rating curve (C.2), and its loss coefficient ζ (C.3), as supplied by the outlet manufacturer from tests to Annex C. Every outlet in a design is checked against that tested capacity.

- Applies to licensed versions of Megh, build 142 and later, for projects designed with the BS 8490:2025 setting.
- Design rainfall, return period and runoff are entered to BS EN 12056-3; outlet data comes from each manufacturer's catalogue.
- Each design is reviewed and approved by the responsible designer. This certificate is reviewed with every major Megh release and any amendment of BS 8490.

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BS 8490
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