



S4 ROOFIT UNIVERSAL

TEST & CERTIFICATION REGISTER

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Certifications, approvals and every test S4 has carried out – individually, with organisation, method and result.

Certification & standing

MCS CERTIFICATION (MCS 012)

CERTIFIED

Tested by: BBA Method / standard: Microgeneration Certification Scheme – MCS 012 (Solar Mounting Kits)

Result: Certified: MCS BBA 7468

roof-integrated PV mounting system; pitch 12–70°; flat tiles, profiled tiles and slates.

BBA AGRÉMENT – BUILDING REGULATIONS & NHBC

VALIDATED

Tested by: BBA Method / standard: UK Building Regulations (E&W / Scotland / NI);

NHBC Standards 2025 (Ch. 7.2 & 8.2)

Result: BBA Agrément validated (Certificate 25/7499). Assessed as contributing to the relevant UK Building Regulations and as compliant with NHBC Standards 2025 (Ch. 7.2 & 8.2).

Weathertightness

WEATHERTIGHTNESS – UNDERLAY

RESULT CONFIRMED

Tested by: BBA (Test Report T1 65103)

Method / standard: MCS 012, Appendix A.6 (225 mm/hr run-off)

Result: Pass – no leaks observed.

WEATHERTIGHTNESS – COMPLETE INSTALLED SYSTEM

RESULT CONFIRMED

Tested by: BBA (Test Report T1 65103)

Method / standard: MCS 012, Appendix A.6, Method D

Result: Pass – no leaks observed on the full system.

Wind uplift

RESISTANCE TO WIND UPLIFT

RESULT CONFIRMED

Tested by: BBA (Test Report T1 65103) Method / standard: BS EN 14437 / MCS 012, Appendix A4 (45° incline)
Result: Certified design wind uplift resistance 2.18 kN/m² (kPa); mean failure load 7.17 kN for the 1-panel / 8-bracket configuration.

WIND UPLIFT – LARGE-FORMAT MODULE VALIDATION

PASSED · REPORT PENDING

Tested by: BBA Method / standard: BS EN 14437 / MCS 012, Appendix A4 – large-format PV module (approx. 1303 × 2384 mm)
Result: Large-format module validation supporting extension of the wind uplift assessment across smaller module families (“worst-case” engineering approach) – test passed. Report being finalised; measured values added on receipt.

Structural strength

STATIC TENSILE (PULL-OUT) BY BRACKET CONFIGURATION

RESULT CONFIRMED

Tested by: CSTB (EEM 25-60715-35) Method / standard: NF P 34-503; Cahier CSTB 3817 (GS21)
Result: 4.36 to 8.94 kN across four bracket configurations (4-4, 3-3, 2-3, 2-2). Governing failure mode: pull-out of the fixing screw from the timber – the S4 components remained intact.

BRACKET-PIN SHEAR (ART2609)

RESULT CONFIRMED

Tested by: CSTB (EEM 26-00062165-36) Method / standard: CSTB internal shear protocol (100 kN machine)
Result: Double anchor 1459 N (Portrait 2) / 1489 N (Landscape 2);
single anchor 630 N / 647 N; pin alone 2255 N.

Fire performance

EXTERNAL FIRE EXPOSURE – BROOF(T4)

RESULT CONFIRMED

Tested by: Efectis (classification report EUI-25-000797B; EXAP reports EUI-26-000003 C-I) Method / standard: BS EN 13501-5 / CEN/TS 1187 (test method t4)

Result: Classified BRoof(t4) – the highest UK roof external fire classification, carrying no restriction relative to a relevant boundary under the Building Regulations. Established by physical fire test and extended by assessment methodology to more than 2,000 PV module references across 24 leading global manufacturers, covering monoglass and bifacial module types. Fire-classification pitch scope: 12–70°.

EXTERNAL FIRE EXPOSURE – METHODS T1, T2, T3

PASSED · REPORT PENDING

Tested by: Test house Method / standard: CEN/TS 1187 (BROOF t1 / t2 / t3)

Result: Supports recognition across European markets that specify these test methods.

Durability & ageing

THERMAL CYCLING – CT 200

RESULT CONFIRMED

Tested by: Certisolis Method / standard: 200 cycles –40 / +85 °C, 15-minute holds at the extremes

Result: Accelerated ageing under repeated thermal expansion and contraction to assess long-term dimensional stability and mechanical durability – result confirmed (pass).

DAMP HEAT – DH 1000

RESULT CONFIRMED

Tested by: Certisolis Method / standard: 1000 h at 85 °C / 85% RH

Result: Resistance to prolonged heat and humidity exposure simulating long-term environmental ageing – result confirmed (pass).

UV + THERMAL + HUMIDITY-FREEZE SEQUENCE

RESULT CONFIRMED

Tested by: Certisolis (IEC 61215-type sequence)

Method / standard: 60 kWh/m² UV preconditioning + CT 50 + HF 10

Result: Combined accelerated weathering sequence reproducing UV, thermal and humidity-related ageing mechanisms – result confirmed (pass).

DURABILITY - WEATHERPROOFING ELEMENTS - RIGID UNDERLAY

IN PROGRESS

Tested by: LNE Method / standard: NF EN 13859-1, Annex C, applied to the S4 element as a rigid, non-foldable product: UV ageing (EN 1297), heat ageing (EN 1296), tensile strength (EN 12311-1), watertightness (NF EN 1928)

Result: Long-term durability of S4 elements contributing to roof weathertightness – testing under way.

Electrical safety & earthing

ELECTRICAL CONTINUITY, BONDING & ENVIRONMENTAL

PASSED · REPORT PENDING

Tested by: LCIE (Bureau Veritas) Method / standard: Contact resistance (IEC 61730-2); lightning surge 20 kA (NF EN 62475); salt-spray corrosion (IEC/EN 60068-2-11); climatic cycling (NF EN 61215-2)

Result: Verification of electrical continuity, surge withstand, corrosion resistance and climatic durability of the earthing path – test passed.

Figures shown are taken from issued reports, certificates and confirmed test results.

Tests marked "Report pending" are completed;

the formal reports are being finalised and measured values will be added on receipt.

Wind value is the certified design figure (2.18 kN/m²). Technical Validation Register, Public Version.



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