

LiteSpan 990 IBR & 990 Standing Seam Insulated Roof Panels

PRODUCT DESCRIPTION

LiteSpan is a composite roof panel: a profiled Chromadek steel weatherskin, an FRCell fire-retardant EPS core and a Chromadek ceiling pan, laminated in the factory and laid in a single pass across the purlins. It comes in two profiles at 990 mm cover — 990 IBR (exposed valley fixing) and 990 Standing Seam (concealed clip, seamed on site). Its structural and thermal properties are independently type-tested to SANS 54509 (Omega Test House, OTH-T-2309-04, on a 125 mm 990 IBR panel), and it carries a B-s1,d0 reaction-to-fire class to SANS 53501-1 (Ignis Testing IT 24-06-00029).

LITESPAN 990 IBR & 990 STANDING SEAM INSULATED ROOF PANELS PROPERTIES

PROPERTY	VALUE
Cover width (both profiles)	990 mm
Core depths	50 / 75 / 100 / 125 / 150 mm
Maximum panel length	Cut to length, up to 12 000 mm on request
Minimum roof pitch	990 IBR 5 deg; 990 Standing Seam 3 deg (approx 1.5 deg mechanically seamed, on request)



Summary only — 13 further properties are given in the LiteSpan 990 IBR & 990 Standing Seam Insulated Roof Panels datasheet.

LOAD / SPAN — MAXIMUM UNSUPPORTED SPAN (M)

CONDITION & DESIGN LOAD	50	75	100	125	150
Single span · 0.75 kPa	4.26	5.32	6.30	7.22	8.10
Single span · 1.0 kPa	3.78	4.72	5.62	6.46	7.18
Continuous · 0.75 kPa	3.52	4.20	4.76	5.26	5.70
Continuous · 1.0 kPa	3.10	3.68	4.18	4.62	5.02

Core depth in mm across the top. Downward dead + imposed, short-term deflection limit span/200. Panel self-weight is already included. Generated from the SANS 54509 load/span engine in kits/litespan-roof-panels/span-tables.html, anchored to ITT OTH-T-2309-04. Further load levels are tabulated in the design guide. Wind uplift is a separate case with its own fastener schedule. Confirm the span for your actual load case and support condition before ordering.

APPLICATIONS AND SCOPE

APPLICATIONS

- Insulated roofs to warehouses, factories and industrial halls, where the roof must be weatherproof
- Agricultural and poultry buildings — the standard EPS-core roof product; 75 mm IBR is in regular use in poultry housing
- Roofs to laboratories, GMP areas, food-processing rooms, hospitals and clinics, where a washable, condensation-resistant steel soffit is wanted

WHERE NOT TO USE IT

- Not for use as a fire division, a fire compartment element, an escape-route enclosure or a boundary condition under SANS 10400-T
- Not on roofs pitched flatter than the profile minimum
- Not where the panel surface will sit above roughly 70–80 deg C for sustained periods