Data sheet roofing screws, facade screws and HPL panel screws — holes, fixed point, edge distance, EPDM

Screws for roof and facade work on timber substructure: roofing screws with EPDM washer for zinc, copper and lead work and roof edges, hexagon facade screws with sealing washer for corrugated and facade sheets, and stainless facade panel screws with lacquered head for HPL panels (Trespa, FunderMax) and fibre cement. HPL moves with temperature and moisture: the panel gets one fixed point and sliding points with a larger hole elsewhere; the screws sit centred in the hole and are tightened hand-tight.

HPL panels on timber: holes (Trespa Izeon: fixed point 5 mm, others 8 mm; Meteon: shank + 3 mm)

screw Ø	fixed point (1 per panel, in the centre)	sliding points
4.8	5	8
5.5	5.5 – 6	8.5 – 10

HPL panels: placement

topic	guide value
edge distance	at least 20 mm, at most 10 × panel thickness
screw spacing	depends on panel thickness and wind load; often 450–650 mm (6–8 mm panel); follow the manufacturer's table
tightening	hand-tight; screw centred in the hole, head just touching, the panel must be able to move
ventilation	ventilated cavity behind the panel, at least 20–30 mm, open at bottom and top
battens	treated timber or hardwood, EPDM tape on the battens where visible

Roofing and facade screws

topic	rule
EPDM washer	tighten until the washer compresses slightly and seats all round; do not overdrive (washer bulges, seal lost)
engagement	at least 25–30 mm in the timber; pre-drill 0.7 × d in hardwood
facade screw type A / BZ	A: flat seal under the head, in the trough or on a flat sheet; BZ: domed washer, on the crest of corrugated sheets
speed	low; keep the screw square so the washer seats all round
steel purlin / aluminium	no wood thread: choose a self-drilling screw with EPDM washer

Material

version	use
stainless A2	outdoors, normal environment
stainless A4	coast, swimming pool, industrial air
lacquered head RAL	head in the panel or profile colour; use a fresh bit
zinc plated	under cover only; outdoors the head rusts and stains the panel