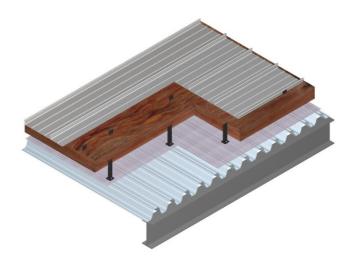


KALZIP NBS FORMAT (H31) OUTLINE SPECIFICATION Kalzip Deck Roof System 0.20 W/m²K U-Value



Project Name: Reference: Specifier: Date:

G30 METAL PROFILED SHEET DECKING

To be read with Preliminaries/General conditions

PROPRIETRY SPECIFIED ROOF DECKING

110 METAL PROFILED SHEET DECKING

-Manufacturer and reference: Kalzip Ltd

Haydock Lane Haydock St.Helens Merseyside WA11 9TY

Tel: 01942 295500 www.kalzip.co.uk

-Product reference: Kalzip Structural Decking Sheet KSD100

-Material: Galvanised steel to BS EN 1014

grade S220GD+Z with designation 275 coating.

-Thickness (nominal): 0.7mm.

-Soffit Finish: Poly RR20 white lining (for internal use).

-End laps (minimum): 150 mm.

-Configuration: Standard end lap.

-Side Lap: Standard side lap arrangement.

-Span configuration: Double span condition.

-Supporting structure: Structural steel rafters with minimum 100 mm bearing.
-Accessories: As per Kalzip Ltd standard details and recommendations.



It is important that the structural engineer responsible for the project confirms that the assumed loadings are correct or supplies alternatives in order that the metal deck suitability may be confirmed.

280 ATTACHMENT OF DECKING

-Primary fasteners: 5.5 mm diameter carbon steel self drilling fasteners, reference SD-8-T15-5.5

x 25. One fastener(s) to be installed in every valley at each sheet support.

-Side lap stitching: Side laps to be stitched in the valley of the profile at maximum 400 mm

centres with 4.8 mm diameter carbon steel self drilling stitching fasteners,

reference SL2-T-4.8x20.

-End lap stitching: End laps to be stitched in the web of the profile across centre line of end lap

with 4.8 mm diameter carbon steel self drilling stitching fasteners, reference SL2-T-4.8x20. One plus one fastener in every web at each sheet end support.

H31 METAL PROFILED/FLAT SHEET CLADDING/COVERING

To be read with Preliminaries/General conditions

120 METAL STANDING SEAM ROOF: Kalzip Deck Roof System 0.20 W/m²K U-Value

-Support structure: Kalzip Structural Metal Deck as per section G30 clause 110

-Pitch: Minimum 1.5°

-External sheets:

-Manufacturer and reference: Kalzip Ltd

Haydock Lane Haydock St.Helens Merseyside WA11 9TY

Tel: 01942 295500 www.kalzip.co.uk

-Product Reference: Kalzip Aluminium Standing Seam 65/400

-Material: Aluminium alloy BS EN AW 3004 (AlMn1Mg1)

0.2% proof stress ($R_{p0.2}$) = 185 N/mm² minimum.

Ultimate tensile strength (R_m) = 220 N/mm² minimum.

-Thickness: 0.9 mm (nominal)

Tolerance on thickness to be +0.05 mm and -0.025 mm. This is a class 2

thickness tolerance as per BS EN 508-2:2000.

- Finish: Mill Finished Natural Stucco Embossed

- Other requirements: ------

-Accessories:

- Extruded Aluminium Alloy (EN AW-6063) Gable End Channel
- Extruded Aluminium Alloy (EN AW-6061) Gable End Hooks
- Extruded Aluminium Alloy (EN AW-6063) Tolerance Gable Clip Extrusion
- Extruded Aluminium Alloy (EN AW-6063) Flat Bar 22mm x 6mm
- Fabricated Aluminium Alloy (EN AW-3004), Ridge Closures (KZ 65/400)
- Extruded Aluminium Alloy (EN AW-6063) Drip Angle 40mm x 20mm
- Kalzip profile ridge fillers (KZ 65/400)
- Kalzip profile eaves fillers (KZ 65/400)
- Fabricated aluminium alloy (EN AW-3004) flashings material and finish as per cladding sheets or as per project requirements.
- Fabricated welded soaker units material and finish as per cladding sheets <u>or</u> as per project requirements.



-End laps: No end laps – single length sheets.

-Side laps: Kalzip sheets are mechanically seamed over head of support clips with a

Kalzip "zipping" machine.

-Spacers Support clips, steel reinforced polyamide Kalzip E-clips type E.180 with S10

spacer pads.

-Fasteners: 6.0 mm diameter stainless steel torque controlled fasteners, reference

SDK3-S-377-6.0x45. Two fasteners per E.clip positioned diagonally opposite

in the holes of the base of the clip.

NB. The use of curved and/or long length Kalzip sheets (e.g. over 25 m) may require a greater number or different type of fastener, please consult with Kalzip technical services for project specific guidance.

-Thermal insulation: As per clause 271. -Vapour control layer: As per clause 261.

Aluminium Site Welding: Aluminium Site Welding (TIG) will be fully in accordance with Kalzip standard

recommendations and industry guide to good practice by Kalzip approved

welding contractors.

Site Welding must be carried out fully in accordance with Approved Welding Procedure Specification ASW/TIG/001 Rev 'B' 1997 as defined in BS EN ISO 9606-2 for material gauges between 0.8mm-3.0mm

thickness.

Site welding operatives must be certified to BS EN ISO 9606-2 standard

for material gauges between 0.8mm-3.0mm thickness.

The weld test procedure shall be in accordance with BS EN ISO 15614-

2:2005

210 STRUCTURE: Check that structure is in a suitable state to receive cladding before

commencing fixing. The subcontractor must confirm acceptance to Main

Contractor and C A.

211 STRUCTURE: Support structure tolerances to be as per cladding manufacturer's

recommendations.

215 STRUCTURE: Do not fix cladding until final coats of paint have been applied to outer

surfaces of the supporting structure.

217 PROTECTION: Store metal sheets under cover to keep dry and to prevent staining. Storing

should be all in accordance with the sheet and panel manufacturer's

recommendations.

219 FASTENINGS GENERALLY

Type(s), size(s), material(s) and finish(es) as specified, or in the absence of such specification, as Recommended for the purpose by the cladding

manufacturer.

221 FITTINGS AND ACCESSORIES GENERALLY:

Cappings, closure pieces, flashings, trims, gutters, fillers, spacers, tapes, sealants, fixings, etc, where not specified, to be types recommended by the

cladding manufacturer.



223 ISOLATING TAPE: A type recommended for the purpose by the cladding manufacturer. Apply to

those surfaces of supports, which would otherwise be in contact with cladding

or accessories after fixing.

261 VAPOUR CONTROL LAYER

-Manufacturer: Kalzip Ltd
-Product reference: Kalzip VCL Clear

-Material: Reinforced virgin polyethylene.

-Vapour resistivity: 530 MNs/g.

-Sealant tape: Kalzip VCL Sealant Tape. Butyl rubber tape with

vapour resistivity of 900 MNs/g.

-Size: 15 mm wide x 2 mm thick.

-Continuity: Lay as work proceeds ensuring continuity. Lap side and end laps of vapour

control layer and seal with sealant tape achieving full bond. Seal with sealant tape to perimeter and to pipes, ducts, structural members etc. which abut or

pass through achieving a full bond.

-Laps: Not less than 50 mm, seal with one row of sealant tape.

Joints in vapour control layer to run in the same direction as the liner sheet.

-Repairs: Carefully check for tears and punctures and seal them with lapped patch of

same vapour control layer material and seal with sealing tape along all edges

achieving full bond.

271 MINERAL WOOL THERMAL INSULATION

-Standard: To BS EN 13162 -Manufacturer: **Kalzip Ltd**

-Product reference: Kalzip Insulation Quilt Type 1

manufactured with ECOSETM Technology.

-Thickness: 200mm lightly compressed to overall thickness of 190mm to achieve

maximum U-value of 0.20 W/m²K.

-Installation: Install and secure insulation as the roofing work proceeds ensuring continuity

and that all edges are closed off and no gaps are left. Joints between layers

of insulation to be staggered. Keep insulation dry at all times

300 PROFILE FILLERS GENERALLY

-Drawing reference(s): As per architects details.

-Supplier: Kalzip Ltd

-Product reference: Kalzip profiled fillers

-Material: Closed cell cross-linked polyethylene with a minimum density of 30 kg/m³.

-Colour: Black

-Thickness: Minimum 30 mm

-Installation: Locate where shown on drawings and wherever necessary to close off

corrugation cavities from the outside and inside of the building. Ensuring a

tight fit, leaving no gaps.

305 FIRE RESISTING PROFILE FILLERS

-Types: To accurately match sheet profile.

-Fixing method: Adhesive recommended by profile filler manufacturer.

410 FIXING SHEETS GENERALLY



Cut sheets and flashings to give clean true lines, with no distortion. Remove burrs and any lubricant.

Cut openings in sheets for outlets, vent pipes, flues, etc. to the minimum size necessary and as per cladding manufacturer's recommendations.

For double skin construction do not line out building completely before installation of the outer sheets.

Lay sheets with exposed joints of side laps away from the prevailing wind unless shown otherwise on drawings.

Ensure that the raking cut edges at hips and valleys are fully supported.

Remove all drilling swarf, dust, debris and any other foreign matter before finally fixing sheets into position.

Protect sheets adequately during fixing and up to practical completion against mechanical damage, corrosion and disfigurement. Rectify any defects as quickly as practicable to minimise damage and nuisance.

Install fasteners to correct tightness using any special tools recommended by the fastener manufacturer. When used, screw guns must be fitted with depth sensitive devices and used at the correct speed.

411 FIXING KALZIP SHEETS

Kalzip sheets to be installed by mechanically seaming sheets to support clips with Kalzip zipping machine.

Kalzip sheets to be installed as per cladding manufacturer's instructions, British Board of Agrément Certification No. 98/3481 and Institute fur Bautechnic Zulassungbescheid N R 14.1-181.

Only roofing contractors who are members of Kalzip Ltd' approved roofing contractors programme should be employed to install Kalzip roofing.

Approved roofing contractor is to provide on site fully trained personnel at a minimum ratio of 1:3. All fully trained personnel to have obtained the General Operator's Certificate and Identification Card at Kalzip Ltd' training centre.

470 STRUCTURAL MOVEMENT JOINTS:

Leave space between sheets to coincide with structural movement joints. Fix weathertight movement joint cover to sheets on one side only. Movement joint cover detail to be as per Kalzip Ltd recommended detail KZ-0-MISC-K-8-006.

480 FLASHINGS/TRIMS:

Joints in flashings and trims to be installed to fully accommodate thermal movement. Flashing joints generally to be as per cladding manufacturer's recommendations.