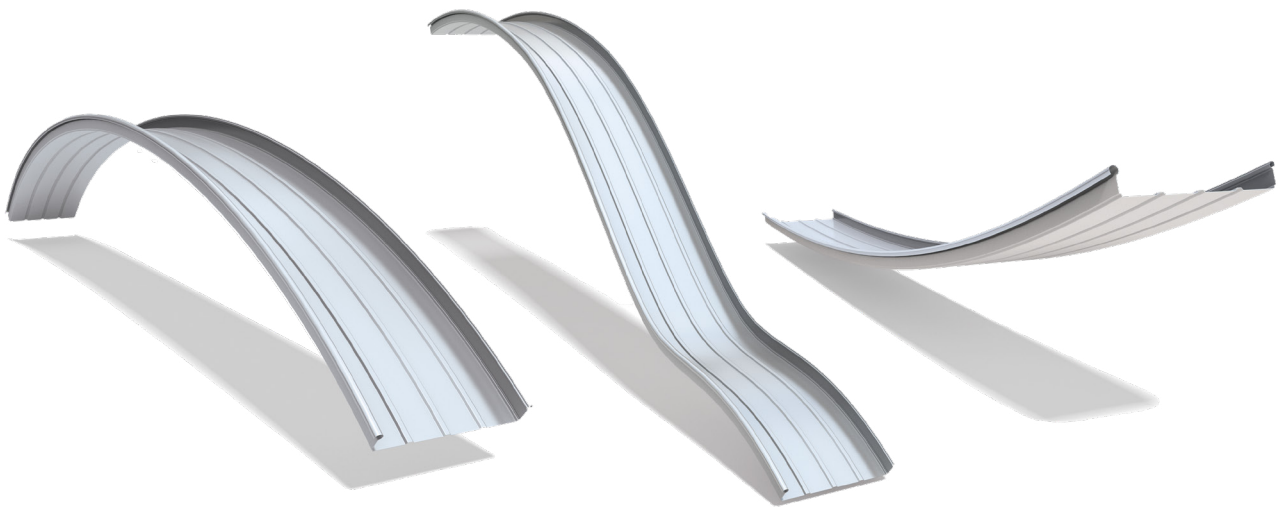


KingZip

Standing seam system for
façades and roofs



- Construction solution for the execution of curved and three-dimensional envelopes with organic geometries, using seamed trays, with lengths from 1.5 up to 150 metres.
- Architectural envelopes for industrial, residential, commercial buildings and sports facilities. Available in aluminium, with various finish options.

KingZip

Standing seam system for façades and roofs

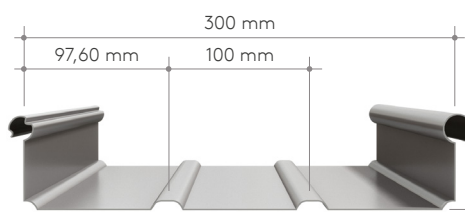
DESCRIPTION AND APPLICATIONS

The KingZip system allows the design of building envelopes with total flexibility, creating angular, convex, concave and conical architectural forms.

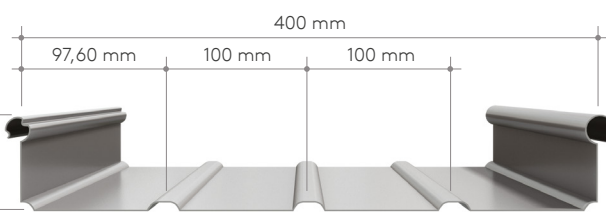
KingZip is designed for use in all roofing applications where the installed roof slope is 1.5° or greater. KingZip can also be used as a cladding solution for façades.

MANUFACTURING CHARACTERISTICS

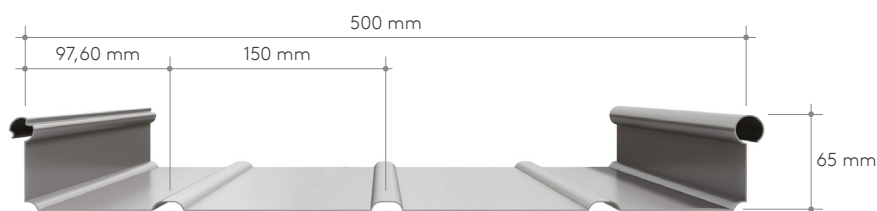
KingZip 300 series



KingZip 400 series



KingZip 500 series



| | |
|----------------------------------|--|
| Panel width (mm) | 300 400 500 |
| Panel length (m) | 1.5 to 15 (Factory produced – limited by transport) 1.5 to 150 (Produced on-site) |
| Materials | Aluminium |
| Nominal Aluminium thickness (mm) | 0,90 / 1,00 / 1,20 |
| Profile height (mm) | 65 |

KingZip

Standing seam system for façades and roofs

Below you will find a more detailed breakdown of the possible roof pitches for various applications using KingZip:

| | |
|---|--------|
| Continuous sheet ridge to eaves | 1,5° |
| Overlapped joint | 1,5° |
| Welded roof penetrations | 1,5° |
| Flush skylights from ridge to eaves | 1,5° |
| Skylights laid over KingZip | > 4,0° |
| Overlapped joints with sealants and fixings | 3,0° |

NOTES:

Roof slopes must be determined taking into account loads and deflections. Ensure that gutter purlins and edge flashing details at the eaves do not reduce the required slopes to avoid water ponding at the sheet edge.

PROFILE TECHNICAL DATA

| Aluminium thickness (mm) | 0,9 | 1,0 | 1,2 |
|--------------------------|------|------|------|
| Weight (kg/m²) | | | |
| LINE 300 | 3,90 | 4,33 | 5,20 |
| LINE 400 | 3,54 | 3,94 | 4,72 |
| LINE 500 | 3,34 | 3,70 | 4,44 |

FIRE REACTION

The KingZip system profiles are classified A1 according to EN 13501-1.

Classified Broof (t1/t2/t3) according to EN 13501-5.

COATINGS

The seamed tray is available in coated aluminium alloy series 3000 or 5000, or in mill finish aluminium, stucco-embossed and embossed aluminium.

KingZip

Standing seam system for façades and roofs

KINGZIP TRAY CURVING

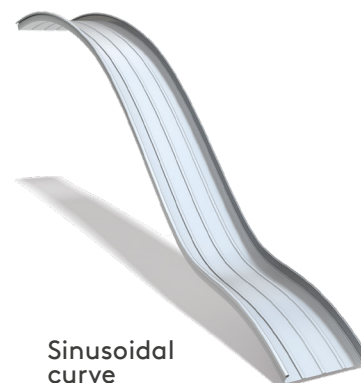
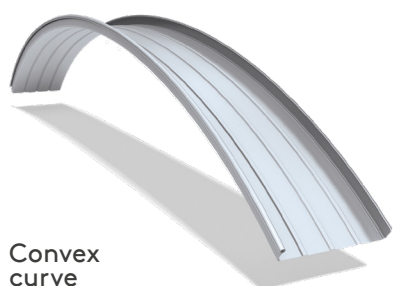
KingZip profiles are available in several curving options to suit the required application. The profile can be concave, convex or sinusoidal, combining both curves in a single sheet.

Sheets self-curve up to a certain point; otherwise, they can be mechanically flattened or curved by seaming, as detailed below. When straight sheets are lowered to match the curve, the purlin supports should be spaced approximately 5 mm wider than the tray cover width, depending on the radius. This relieves tray stress by allowing the uprights to open outwards.

| Convex curve | Convex curved sheet thickness (mm) | Recommended support spacing (m) | Radius (m) |
|--------------------------------|------------------------------------|---------------------------------|-------------|
| Job site spring-curved sheets | 0,90 Aluminium | 1,5 | 40,0 / 45,0 |
| | 1,20 Aluminium | 1,6 | 55,0 / 60,0 |
| Smooth laminated curved sheets | 0,90 Aluminium | 1,5 | 5,0 |
| | 1,20 Aluminium | 2,0 | 5,0 |
| Factory seamed curved sheets | 0,90 Aluminium | 1,5 | 0,75 |
| | 1,20 Aluminium | 1,6 | 0,75 |
| Concave curve | | | |
| Job site spring-curved sheets | 0,90 Aluminium | 1,6 | 50,0 |
| | 1,20 Aluminium | 1,6 | 60,0 |
| Smooth laminated curved sheets | 0,90 Aluminium | 1,5 | 8,0 |
| | 1,20 Aluminium | 1,6 | 8,0 |

NOTES:

For other metals and radii beyond the above parameters, please consult our Kingspan technical department.



KingZip

Standing seam system for façades and roofs

KINGZIP TAPERED TRAY

KingZip tapered trays provide the flexibility required to design more complex geometries, such as curved-in-plan or dome structures.

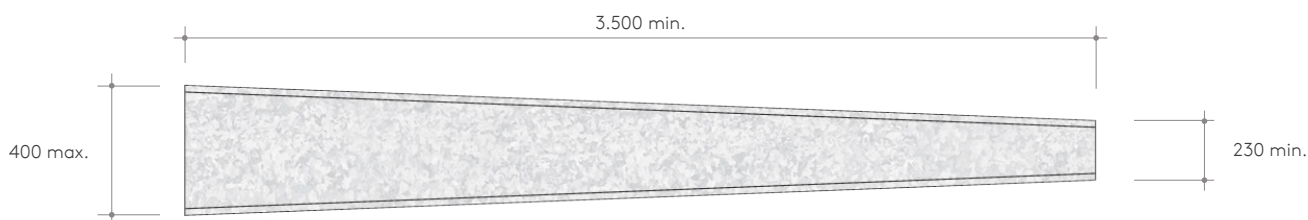
Tapered sheets have the same curvature radii as standard KingZip sheets and can be fully integrated into KingZip applications.



- Minimum length: 3.5 m
- Factory production: up to 15 m (limited by transport vehicle dimensions)
- On-site production: up to 150 m
- Minimum taper width: 230 mm
- Maximum taper width: 400 mm



MANUFACTURING SPECIFICATIONS



NOTES:

All measurements in mm.

KingZip

Standing seam system for façades and roofs

FINISHES

The external aluminium sheets are available in a wide range of finishes, including: mill finish, stucco, PVDF or polyester.



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