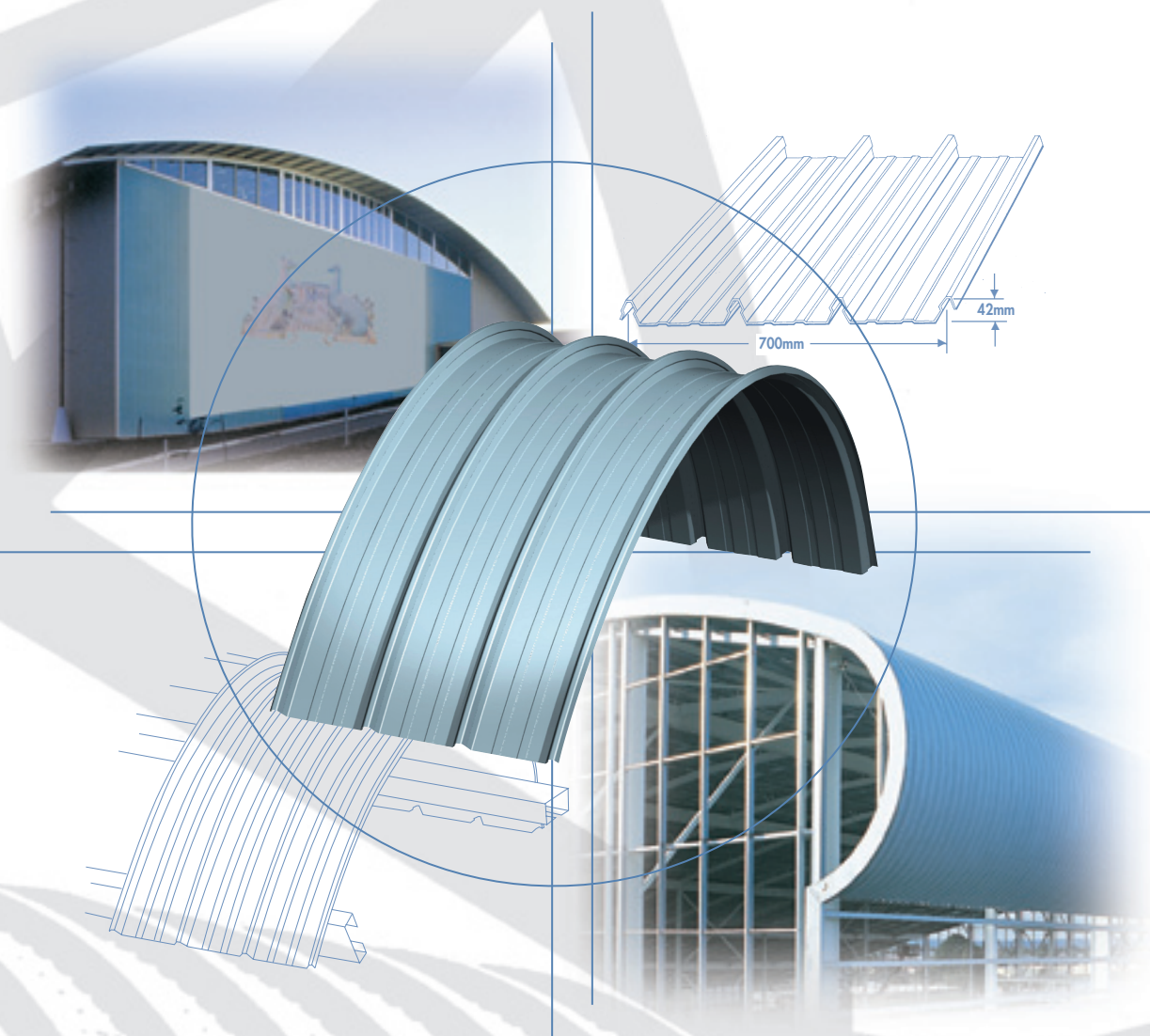


KingKlip[®] Smooth Curving



**A Greater Degree
of Confidence**



FINISH ON TOP WITH FIELDERS

A Greater Degree of Confidence with Fielders Smooth Curving

Once again, Fielders has responded to the industry's wishes. Architects have long demanded that Concealed fix products be fixed to tighter radii than spring fixing allows. Thus far Fielders 'Crank Curving' has met that requirement, however the challenge remained to achieve a tighter, more aesthetically pleasing curve.

The answer is 'Fielders Smooth Curving'. Our uniquely designed KingKlip® profile, the only concealed fix deck to provide a fully formed under and over male and female rib, now can be smooth curved down to 20 metre radius. On selected projects, it is possible to achieve an even tighter radius. Fielders will be pleased to provide criteria to determine whether your project is suitable.

Australian Standards require that screw fixed profiles be silicone sealed at the side laps where the product is beneath its minimum pitch*. That means for a substantial section of the curved roof all that is keeping water out is silicone. Fielders is the only Roll Former in Australia that has the 'state of the art' machinery to curve a clip fixed product to this degree. So from now on you can have the security of no holes in your roof with the curve you want.

* Refer Specifying Fielders - Roofing & Walling Section 3.13, p81.

Minimum Radii:

| Gauge | Grade | Minimum Radius | Maximum Purlin Spacing* |
|-------|-------|----------------|-------------------------|
| 0.42 | G550 | 20.00m | 1500mm |
| 0.48 | G550 | 20.00m | 1800mm |
| 0.55 | G300# | 15.00m | 1800mm |

* After which faceting occurs. These limits do not reflect wind load capacity limits.
Subject to availability & special pricing, prone to oil canning and damage by foot traffic.

Material specifications:

| KINGKLIP® 700 | Light Industrial | | |
|--------------------------------------|---|------------|--|
| | Zincalume® | Colorbond® | |
| Kg Mass / Linear Metre | 3.26 | 3.32 | 1000 / (Lm/Tonne) |
| Kg Mass / Metre ² (cover) | 4.66 | 4.74 | 1000 / (Lm Mass/700) |
| Base Metal Thickness | .42 | | BMT |
| Total Coated Thickness | .47 | | TCT |
| Tensile Strength | G550 | | Base Steel Designation |
| Coating Class | AZ150 | | Minimum Coating gms/m ² of Zinc - Aluminium |
| Tolerance | Sheet Length ± 7mm Cover Width ± 4mm | | |
| Thermal Expansion | 2.9mm Average per 5 metre at 50°C change. | | |

| KINGKLIP® 700 | Heavy Industrial | | |
|--------------------------------------|---|------------|--|
| | Zincalume® | Colorbond® | |
| Kg Mass / Linear Metre | 3.70 | 3.76 | 1000 / (Lm/Tonne) |
| Kg Mass / Metre ² (cover) | 5.28 | 5.37 | 1000 / (Lm Mass/700) |
| Base Metal Thickness | .48 | | BMT |
| Total Coated Thickness | .53 | | TCT |
| Tensile Strength | G550 | | Base Steel Designation |
| Coating Class | AZ150 | | Minimum Coating gms/m ² of Zinc - Aluminium |
| Tolerance | Sheet Length ± 7mm Cover Width ± 4mm | | |
| Thermal Expansion | 2.9mm Average per 5 metre at 50°C change. | | |

KingKlip® 700 is manufactured to AS 1397 and AS 2728 Cat. 3. It is to be installed in accordance with AS 1445, 1562, and HB 39.

Wind Load Capacity (kPa) - Limit State Design:

Light Industrial thickness 0.42 bmt (0.47 tct)

| Span (mm) | Single span | | End span | | Internal span | |
|-----------|----------------|----------|----------------|----------|----------------|----------|
| | Serviceability | Strength | Serviceability | Strength | Serviceability | Strength |
| 1200 | 2.14 | 3.22 | 1.45 | 2.19 | 1.60 | 2.19 |
| 1500 | 1.55 | 2.75 | 1.25 | 1.92 | 1.38 | 1.92 |
| 1800 | 1.18 | 2.20 | 1.11 | 1.72 | 1.22 | 1.72 |
| 2100 | 0.92 | 1.75 | 1.00 | 1.57 | 1.10 | 1.57 |
| 2400 | 0.72 | 1.48 | 0.90 | 1.46 | 0.99 | 1.46 |
| 2700 | 0.56 | 1.25 | 0.80 | 1.28 | 0.88 | 1.28 |
| 3000 | 0.43 | 1.05 | 0.70 | 1.12 | 0.77 | 1.12 |
| 3300 | | | 0.61 | 1.00 | 0.67 | 1.00 |
| 3600 | | | 0.52 | 0.88 | 0.57 | 0.88 |

Heavy Industrial thickness 0.48 bmt (0.53 tct)

| Span (mm) | Single span | | End span | | Internal span | |
|-----------|----------------|----------|----------------|----------|----------------|----------|
| | Serviceability | Strength | Serviceability | Strength | Serviceability | Strength |
| 1200 | 2.24 | 4.07 | 1.66 | 3.04 | 1.83 | 3.04 |
| 1500 | 1.85 | 3.70 | 1.64 | 2.85 | 1.80 | 2.85 |
| 1800 | 1.53 | 3.24 | 1.59 | 2.62 | 1.75 | 2.62 |
| 2100 | 1.25 | 2.55 | 1.52 | 2.39 | 1.67 | 2.39 |
| 2400 | 1.00 | 1.95 | 1.28 | 2.05 | 1.41 | 2.05 |
| 2700 | 0.72 | 1.60 | 1.05 | 1.73 | 1.16 | 1.73 |
| 3000 | 0.49 | 1.23 | 0.86 | 1.45 | 0.95 | 1.45 |
| 3300 | | | 0.70 | 1.20 | 0.77 | 1.20 |
| 3600 | | | 0.60 | 1.00 | 0.66 | 1.00 |

Wall - wind load Region A
h = 10m Vu = 50 m/s Cpe = -0.65 K1 = 2.0 Cpi = 0.2 Pu = 2.25 kPa Ps = 1.93 kPa

Note: Information contained within this document is subject to change as Fielders is constantly improving its products.

Span Tables:

Light Industrial thickness 0.42 bmt (0.47 tct)

| Maximum recommended span (mm) | | |
|-------------------------------|------|------|
| | Roof | Wall |
| Single span | 1600 | 2100 |
| End span | 1700 | 2100 |
| Internal span | 2100 | 2400 |
| Unstiffened overhang | 150 | 300 |
| Stiffened overhang | 500 | 300 |

Heavy Industrial thickness 0.48 bmt (0.53 tct)

| Maximum recommended span (mm) | | |
|-------------------------------|------|------|
| | Roof | Wall |
| Single span | 2000 | 2300 |
| End span | 2550 | 2700 |
| Internal span | 3000 | 2900 |
| Unstiffened overhang | 150 | 400 |
| Stiffened overhang | 500 | 400 |



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