



CROWN[®]

PVC THERMAL ROOFING

uPVC & ASA LAMINATED

*No matter what the weather is,
Crown PVC Thermal Roofing
got you covered.*

Features:

- UV PROTECTED
- HEAT DEFLECTIVE
- NON-CORROSIVE
- IMPACT-RESISTANT
- DURABLE
- NON-FLAMMABLE
- EASY TO INSTALL
- COST-EFFICIENT
- EXTRA WIDTH ADVANTAGE

uPVC ROOFING

(Unplasticized PolyVinyl Chloride)

CROWN[®] CorrWave
CROWN[®] StrongRib

ASA LAMINATED

uPVC ROOFING

(Acrylic Styrene Acrylonitrile)

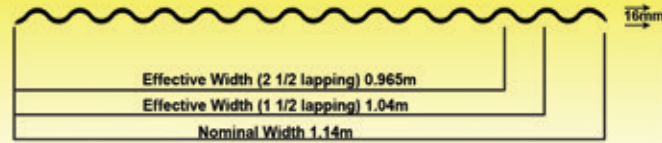
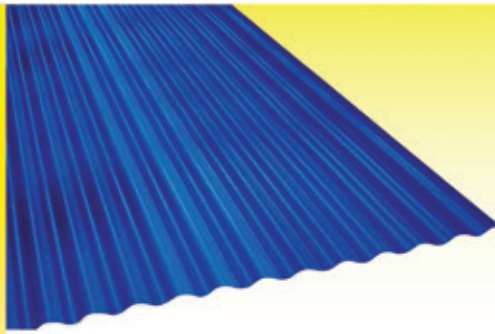
CROWN[®] SmartRoof
CROWN[®] HeatProtect
CROWN[®] TileTech

**YOUR
ALL-WEATHER
COOL ROOFING
SOLUTION**

uPVC ROOFING

CROWN[®] CorrWave

CORRUGATED



Thickness : 1.0 mm, 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm
 Commercial : 4ft(1.22m), 5ft(1.52m), 6ft(1.83m), 7ft(2.13m),
 8ft(2.44m), 10ft(3.04m), 12ft(3.66m), 14ft(4.27m), 16ft(4.88m)
 Crest Height : 16mm

CROWN[®] StrongRib

RIB TYPE



Thickness : 1.0mm, 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm
 Commercial : 4ft(1.22m), 5ft(1.52m), 6ft(1.83m), 7ft(2.13m),
 8ft(2.44m), 10ft(3.04m), 12ft(3.66m), 14ft(4.27m), 16ft(4.88m)
 Rib Height : 30mm

ASTM D4434-04 STANDARD SPECIFICATION FOR POLYVINYL CHLORIDE SHEET ROOFING

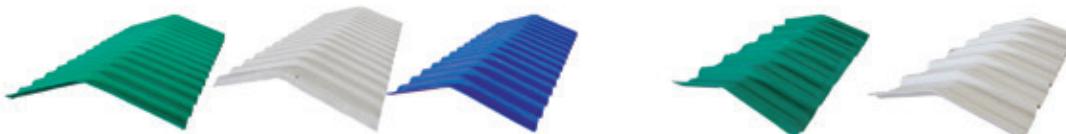
PROPERTIES	VALUE	UNIT	TEST METHOD
Mechanical Properties			
Tensile Strength at Break Machine direction	33.3	MPa	ASTM D 638
Elongation at Break Machine direction	52	%	ASTM D 638
Seam Strength	75	%	ASTM D 638
Tear Resistance	2,599	N/cm	ASTM D 1004
Retention of Properties after Heat Aging:			
Tensile Strength, min, % of original	90	%	Practice D 3045
Elongation, min, % of original	90	%	
Low Temperature Bend	Passed		ASTM D 2136
Accelerated Weathering Test:			
Cracking (7x magnification)	None		Practice G151
Crazing (7x magnification)	None		
Linear Dimensional Change	0.1	%	ASTM D 1204
Change in weight after immersion in Water	+3.0	%	ASTM D 570
Static Puncture Resistance	Passed		ASTM D 5602
Dynamic Puncture Resistance	Passed		ASTM D 5635

AVERAGE WEIGHT of CROWN uPVC ROOFING

Weight per Linear Meter (kg/m)

Thickness (mm)	CorrWave	StrongRib
1.0mm	2.179	2.510
1.5mm	3.268	3.765
2.0mm	4.357	5.020
2.5mm	5.447	6.275
3.0mm	6.391	7.530
3.5mm	7.625	8.786

uPVC Ridge Roll



Crown CorrWave

Thickness:	1.0mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm
Ridge Roll Width:	0.60m
Ridge Roll Length:	1.115m
Slope:	±16 degrees

Crown StrongRib

Thickness:	1.0mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm
Ridge Roll Width:	0.60m
Ridge Roll Length:	1.185m
Slope:	±16 degrees

TOUGHNESS & DURABILITY



NO DENT • NO CRACK • NO DAMAGE

COMPARATIVE CHALLENGE
 CROWN uPVC VS CONVENTIONAL METAL ROOFING



CONVENTIONAL METAL ROOFING
 (0.6mm Thick)

**(Conventional Metal Roofing)
 (0.6mm Thick)**



**(Crown uPVC Roofing)
 (1.5mm Thick)**

To prevent the uPVC Roofing panels from sagging, recommended purlin spacing shall be followed:

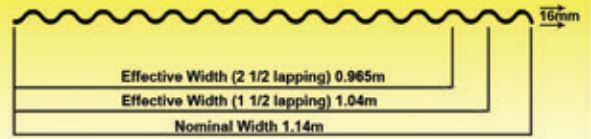
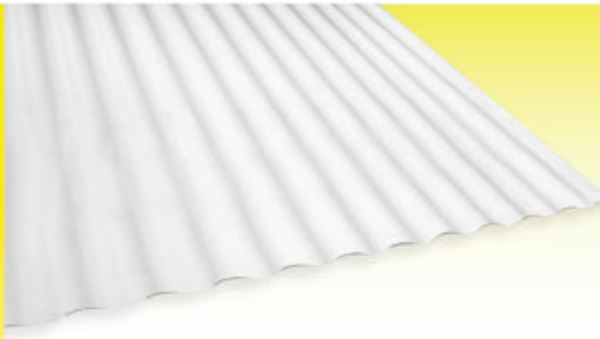
PURLIN SPACING

Thickness of PVC Roofing	Recommended Purlins Spacing
1.0mm	0.30 meter
1.5mm	0.30 to 0.40 meter
2.0mm	0.60 to 0.70 meter
2.5mm	0.70 to 0.80 meter
3.0mm	0.90 to 1.00 meter
3.5mm	1.00 to 1.10 meter

ASA LAMINATED uPVC ROOFING

CROWN[®] HeatProtect

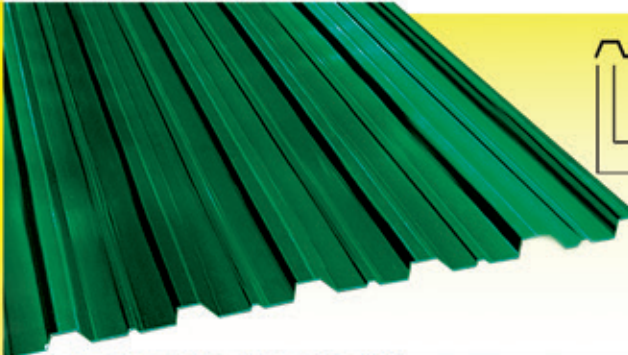
CORRUGATED



Thickness : 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm
 * 1.0mm available upon request
Commercial : 4ft(1.22m), 5ft(1.52m), 6ft(1.83m), 7ft(2.13m), 8ft(2.44m), 10ft(3.04m), 12ft(3.66m), 14ft(4.27m), 16ft(4.88m)
Crest Height : 16mm

CROWN[®] SmartRoof

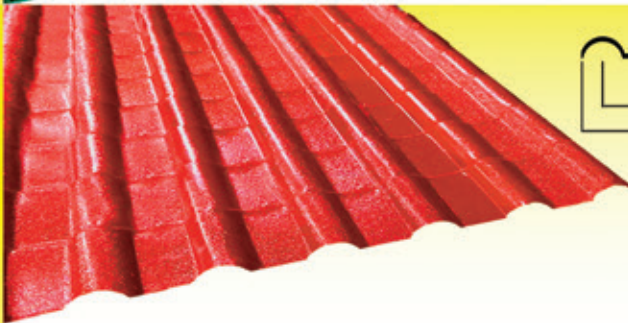
RIB TYPE



Thickness : 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm
Commercial : 4ft(1.22m), 5ft(1.52m), 6ft(1.83m), 7ft(2.13m), 8ft(2.44m), 10ft(3.04m), 12ft(3.66m), 14ft(4.27m), 16ft(4.88m)
Rib Height : 30mm

CROWN[®] TileTech

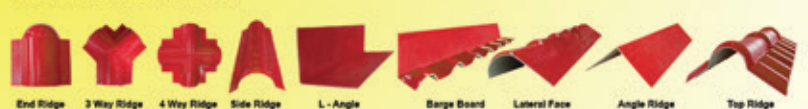
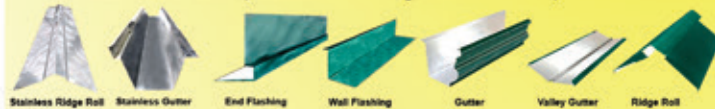
TILE TYPE



Thickness : 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm
Commercial : 4ft(1.22m), 5ft(1.52m), 6ft(1.83m), 7ft(2.13m), 8ft(2.44m), 10ft(3.04m), 12ft(3.66m), 14ft(4.27m), 16ft(4.88m)
Fasteners : Tekscrew-Wood / Metal
Module Distance : 220mm
Crest Height : 31mm
Step Height : 20mm

Bended Materials (Stainless / Pre-painted Metal)

TileTech Accessories



CROWN uPVC ROOFING IMPACT TEST

To determine strong resistance to external blows of falling objects from different heights of 1.0 meter up to 3.0 meters.

NO CRACK, NO HOLE, NO PHYSICAL DAMAGE.



BULLET IMPACT TEST (0.755kg)



BALL IMPACT TEST (2.495kg)

Crown PVC Roofing is effective in resisting impact from falling objects. They do not break nor acquire holes as our bullet and ball impact tests from different falling heights demonstrate.

COMPARATIVE TEMPERATURE TEST RESULTS

CROWN uPVC ROOFING vs PRE-PAINTED METAL ROOFING

CROWN uPVC ROOFING color	CROWN uPVC ROOFING Temperature	PRE-PAINTED METAL ROOFING Temperature	TEMPERATURE DIFFERENCE
Warm White	42.2°C	63.1°C	20.9°C
Ivory White	45.6°C	63.1°C	17.5°C



CROWN uPVC ROOFING



PRE-PAINTED METAL ROOFING

* LONG SPAN AVAILABLE IN TRANSPORTABLE LENGTH / BY SPECIAL ORDER
 * ACCEPTABLE LENGTH AND WIDTH VARIANCE ± 10 MM.



CROWN[®] PVC THERMAL ROOFING

uPVC Roofing

(Unplasticized PolyVinyl Chloride)

Crown uPVC corrugated and rib-type roofing are quality made from Unplasticized PolyVinyl Chloride material. They have UV Protection and performance advantage of heat insulation, sound absorption and non-corrosion, better than conventional roofing materials. Suitable for warehouse, agricultural, industrial and household requirements.

ASA LAMINATED

uPVC Roofing

(Acrylic Styrene Acrylonitrile)

Crown ASA corrugated, rib and tile-type roofing are made of Acrylic Styrene Acrylonitrile. Have significantly improved weatherability performance compared to other styrene materials. Better resistance to UV radiation and attack from atmospheric oxygen. High retention of physical properties that makes them extra tough! Ideal for commercial, industrial and agricultural applications.



Crown PVC Thermal Roofing is safety-engineered with lasting durability that remains strong for many years. It has better protection against harmful UV rays and highly resistant to extreme weather and environment conditions. Ideal choice for structures near the sea - won't rust because it is non-corrosive. It has quality properties for effective heat insulation to keep inside temperature cooler and sound absorption to minimize external noise.

NO NEED FOR INSULATION



RUST FREE

Heat Deflective

Available Colors



*Discoloration may happen after years of exposure to the sun.

SAVINGS ON POWER CONSUMPTION

A QUALITY PRODUCT MANUFACTURED BY:



CROWN ASIA CHEMICALS CORPORATION

Plant : Guiguinto, Bulacan, Philippines • Office : Rm. 508 President Tower, 81 Timog Avenue, Quezon City
Valenzuela Plant & Office: 8277-0880 loc. 122 - 132 • Guiguinto, Bulacan Plant & Office: (044) 794-0268 to 70
Quezon City Office: 8294-2071 loc. 103 - 107 • Email: sales@crownpvc.com.ph