

## COMPANY PROFILE

**DION** (An ISO 9001:2015) is a professional largest manufacturer of the uPVC sheets in India. The company has ventured into producing uPVC (Unplasticized polyvinyl chloride) corrugated three layer Roofing sheets popularly known as plastic Roofing sheet under the brand name DION, since 2011. Today with the construction boom, we can meet the rising demand for modern, tough, life secure, economical, long lasting uPVC sheets.

DION UPVC sheets are optimum choice for roofing & cladding. uPVC roofing sheets is the best replacement to conventional asbestos, metal G.I. sheets, fiberglass sheets and ceramic tile sheets, considering its property of heat insulation, sound insulation, water resistance, chemical and alkali resistance, corrosion proof, fire retardant, eco friendly. They are easy to install and move. Light weight as well as cost effective in installation. Not only that, but it can save construction cost up to 70%.

**DION Quality & Aesthetics** - A perfect combination to match your roofing needs

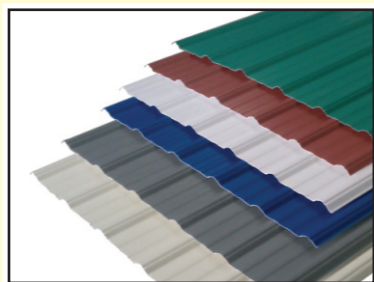
## MATERIAL STRUCTURE



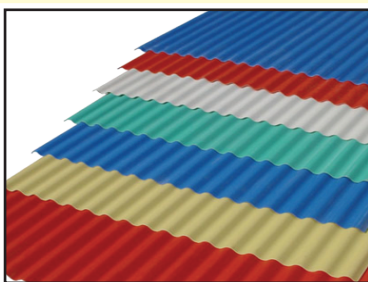
1. Surface Layer - The material is ultra-weather resin, to block the solar ultra violet and reduce the coefficient of heat conductivity, ensure product durability and resistance to chemical corrosion.
2. Surface Intermediate Layer - contains Multi foam giving to the material light weight and improved sound and thermal insulating properties.
3. Underlying layer - for just a good material toughness special to ensure the strength at the same time, increase the rigidity and light illumination.

Three kinds of different materials to give the product their own features and the organically combined to make a new generation of heat insulation uPVC sheet to solve the product durability, corrosion resistance, small rigidity, a sense of space and aesthetics issues.

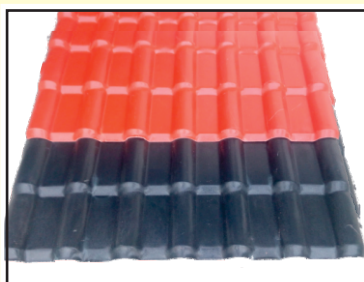
### DION uPVC SHEET



**TRAPEZOIDAL PROFILE**



**ROUND PROFILE**



**ROYAL TILE SHEET**

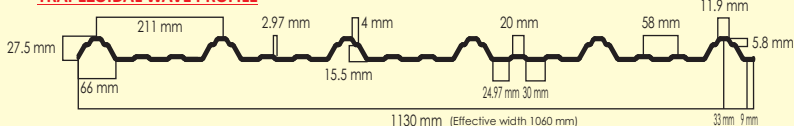


**CLASSIC TILE SHEET**

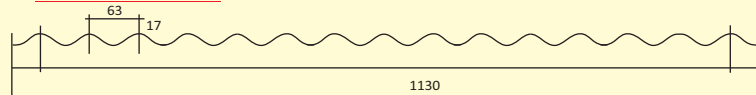
Profile Name	Thickness (mm)	Width (mm)	Standard Length	Color
Trapezoidal Wave Profile	1.5, 2.0, 2.5, 3.0, 3.5, 4.0	1130	8,10,12 Ft.	Blue, White, Green, Gray, Terracotta, Off white, Beige
Round Wave Profile	1.5, 2.0, 2.5, 3.0	1130	8,10,12 Ft.	Blue, White, Green, Gray, Terracotta
ASA uPVC Royal Tile Sheet	2.3, 2.5	1050	2.41, 3.07, 3.73, 4.38, 5.03, 5.47, 6.13 Mtr.	Gray & Terracotta
ASA uPVC Classic Tile Sheet	2.3, 2.5	1080	2.50, 3.0, 3.75 Mtr.	Gray & Terracotta

**Note:** Length can be customized as per customers required on bulk order only. (Trapezoidal wave & round wave profile)  
**Weight (Approx) :-** 2.6kg per square meter (1.5mm), 3.4 Kg per square meter (2mm), 4 kg per square meter (2.5 mm), 5.1 kg per square meter (3mm), 5.8 kg per square meter (3.5 mm), 6.3 kg per square meter (4mm)  
**Purlin span :-** 1.5mm < 1.5feet, 2mm < feet, 2.5 mm < 2.5 feet, 3mm < 3 feet, 3.5mm < 3.5 feet, 4.0 mm < 3.5 feet

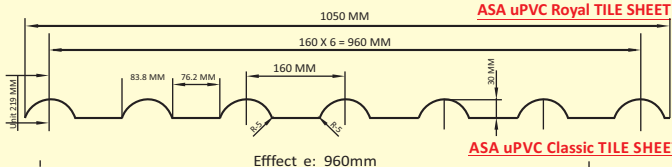
#### TRAPEZOIDAL WAVE PROFILE



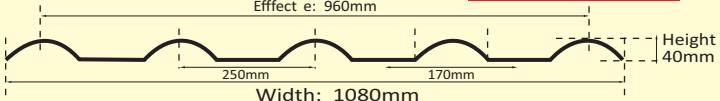
#### ROUND WAVE PROFILE



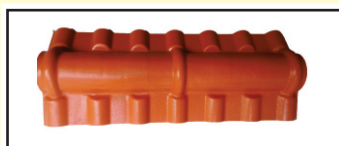
#### ASA uPVC Royal TILE SHEET



#### ASA uPVC Classic TILE SHEET



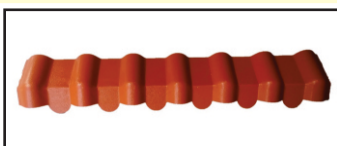
## ACCESSORIES



Main Ridge (1050mm)



Main Ridge Cap



Fascia Board (1050mm)



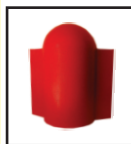
3 Way Ridge



Transparent Sheet



Side Ridge (1050mm)



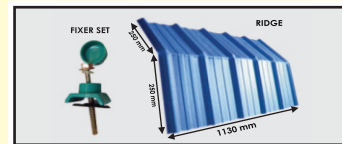
Side Ridge Cap



Wall Flashing Board (1050mm)



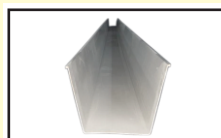
4 Way Ridge



Tile sheet Plain Ridges (2000mm)



Fixer Set



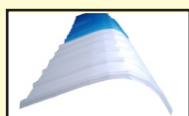
UPVC Gutter (8" X 7" X 8")  
Length - 6Mtr - 3.0mm thickness



Gutter Joiner



Gutter Drop outlet



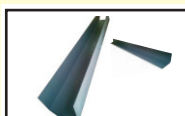
Face curve sheet



Gutter drain End cap



End cap



FRP GUTTER / CORNER



Air Ventilator



Polycarbonate Base Plates

## PROPERTY TEST METHOD VALUE

Sr.No.	Test	Test Method	Unit	Results Obtained
1	Vicat softening temperature at 1kg.	ASTM D 1525	°C	93.5
2	Vicat softening temperature at 1.8MPa	ASTM D 648	°C	69.2
3	Vicat softening temperature at 66 PSI.		°C	77.2
4	Vicat softening temperature at 364 PSI.		°C	69.2
5	Flammability		UL-94	---
6	Rate of burning	ASTM D 635	---	The flame front did not reach the 25 mm ef.mark
7	Tensile strength at break	ASTM D638	MPa	30.63
	Elongation at break		%	130
8	Flexural strength	ASTM D 790	MPa	73.3
9	Resistance to chemical (10% H2SO4 for 24Hrs.)	ASTM D 543	---	No visible change observed
10	Density	ASTM D 792	gm/cc	1.56
11	Water absorption (change in mass,24 Hrs.)	ASTM D 570	%	0.07
12	Charpy impact	ASTM D 6110	KJ/m <sup>2</sup>	8.10
13	Thermal resistance	At70°C/72Hrs.	---	No effect
14	Chemical resistance	In 18% HCL/24Hrs	---	No effect
15	Chemical resistance	In 20% NaOH/24Hrs	---	No effect
16	Chemical resistance	In Saturated CaCL <sup>2</sup> /24Hrs	---	No effect



### Corrosion Resistance :

DION sheets can resist the chemical corrosion of acid, alkali, salt etc. for a long time. the test proves that there is no chemical reaction when dipped in salt, alkali etc.



### Heat & Sound Insulation :

The coefficient of heat conductivity is 0.104 W/m. °C, which is about 1/3 of clay tile, 1/5 of 10-mm-thick cement tile, and 1/2000 of 0.5-mm-thick color-coated steel tile. It can well absorb the noise when influenced by Strom, and windstorm etc.

## PRODUCT FEATURES



### Environmental protection & energy conservation:

It is a kind of environmental- friendly, energy conservation and recycling building material popular in developed and developing countries.



### Pressure Prevention :

DION sheets has very good load bearing performance. no damaged when 150kg is evenly loaded with support distance being 750mm for 2.0mm thickness.



### Cost effective & Non-Carcinogenic :

Cost effective in installation and save construction up to 70% overlapping waste doesn't exceed 8% High utilization efficiency up to 95% and its good for life fully protected from health hazards.



### Light Weight :

The weight is 3.6kg per square meters (2mm). Belonging to light structural material, it can effectively reduce the load of the building framework materials. In the mean time, it is easy to be handled and lifted, which reduces the construction cost.



### Good water resistance :

The surface material of DION is compact and doesn't absorb water without the problem of water penetration by micro pores. the single sheet is big and there is very few joint on the roof. The connecting point is tightly connected; therefore the sheet has outstanding water resistance performance.



### Flame Retardant :

Self extinguishing the main body material polyvinyl chloride resin and its chemical performance determine that it is difficult to be burned.

## APPLICATIONS

DION is an optimum choice for roofing & cladding in civil and industrial construction as per the efficiency and benefits it provides. It can be used in many applications both exterior and interior. i.e. industrial places, commercial places, residential places & Agricultural farms etc like **Factory Building, Warehouses, Market, Vehicle Parking Sheds, Farm House, Water Resorts, Cottages, Chemical Industries, Animal House, Construction House, Schools, Colleges, Hostels, Sheltered Walkways, Security Guard Shelters, roof extensions, summer huts cycles** etc.



↑ 125000 sq.ft. (approx.) project done in the year 2011  
 3mm Thickness for Roof  
 2mm Thickness for Wall  
**Galvanizing Plant**

↑ After 10 years, 2021  
**No Corrosion & No Other damages**

**BENEFITS OF DION UPVC MULTILAYER SHEET**  
 Save 4 times replacement and now sheet installations cost of metallic sheet



Note: The white is our raw material color. The other colors are derived from pigmentation and pigment are subject to sunlight fading.

Above all information are only for good reference, DION is not responsible for any loss from miss uses or misunderstanding of instruction. Company has power to change in specification at any time.

For more details, please visit our website.



# DION INCORPORATION

Manufacturer : uPVC MULTILAYER ROOFING SHEETS

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Factory : Plot No 345 to 348 & 367 to 370, Golden Green Industrial Park, Ravki Road,

Village Khambha, Ta. Lodhika, Dist. Rajkot-360311 Gujarat (India)

Scan for More Project Photo



**DION Quality & Aesthetics - A perfect combination to match your roofing needs.**