

# DION UPVC Sheet:

An Unified Solutions for Corrosion, Heat & Sound

Presentation



By: Mr. Alok (Manager – Marketing)

Contact: +91 90330 33856

Mail id: [marketing@dioninc.in](mailto:marketing@dioninc.in)

## Understanding Your Needs

Before we get into the specifics, it's important to understand that your procurement decisions likely focus on products that **cost effective, non-corrosive, durability, and long-term value**. DION UPVC Sheets are designed to meet those criteria and more, offering a range of benefits tailored to the roofing needs of your industry.

## Product Overview: DION UPVC Sheets



### A. What is DION UPVC Sheet?

- DION UPVC Sheets are **Un plasticized Polyvinyl Chloride (uPVC)** roofing solutions, specifically engineered for **long-lasting performance** in all weather conditions.
- Unlike traditional roofing materials, our uPVC sheets are:
  - **3Layer DION UPVC Sheet:** 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. Surface Intermediate Layer - contains Multi foam giving to the material light weight and improved sound and thermal insulating properties. Underlying layer - for just a good material toughness special to ensure the strength at the same time, increase the rigidity and light illumination.
  - **Rigid and Durable:** Built to withstand extreme weather, UV radiation, and corrosive environments.
  - **Lightweight but Strong:** Easy to handle during installation but tough enough for long-term use.



## Company Profile & Our Strength



- \* DION (An ISO 9001:2015) is a professional largest manufacturer of the uPVC/ASA sheet in India. The Company specializes in the manufacturing and distribution of a wide range of products made from uPVC/ASA material. The company is based in Rajkot, India. Founded in 2011 (A **SAMAY** Group of Company & More than 45years experience in plastic products manufacturing)
- \* Dion has strong presence in the domestic and global market and supplies uPVC/ASA products to various industries, including Pharma, chemical, fertilizer, iron & metal, Food, hotel, paper. There are 450+ projects clients & 55+ channel networks in all over India.
- \* As a manufacturer of uPVC sheet to become a largest manufacturer of uPVC & ASA (Anti corrosion sheet) sheet in India and more than 60% market share in this product. With our strength Quality Products, Exceptional customer service, Competitive pricing, Personalization, Convenience, Trustworthiness, Innovation, Social responsibility, Brand reputation & Emotional connection, **Our primary focus and help those industries, where the corrosion issues are a major challenge.**

## Product Features: DION UPVC Sheets

### CORROSION RESISTANCE:

- DION uPVC 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.

(24hour deep test in the video)

- Ideal use for Chemical, Pharma, Fertilizer, steel & iron industries, coastal areas, chemical processing unit etc.

**Alekh**  
**PLASTICS TESTING CENTRE**  
F-94-95, RUDRAKSHA-II, JASHODANAGAR MEHAMDABAD HIGHWAY,  
VATVA, AHMEDABAD: 382445. TEL-FAX : 79-25830445.  
E-Mail: alekh\_plastics@yahoo.com; alekhplastics@gmail.com www.alekhplasticstestingcentre.com  
Doc.No: F/RPT/01  
Page no: 1 of 1

**TEST REPORT**

No: TR/24-25/0109  
Issued to: M/s. Dion Incorporation  
Limda Chowk,  
Rajkot  
Date of issue: 18/05/2024  
Date of receipt: 13/05/2024  
Date of performance of testing: 14/05/24 to 17/05/24  
Sampling details: By customer

Sample details: UPVC multilayer roofing sheet (as stated by the party)  
Sample Packing: Loose Sample condition: Satisfactory Mode of delivery: By courier  
Your reference: Received courier on 13/05/2024 Test condition: 27°C/63% RH

**Test result**

Sample	Test Property	Unit	Test method	Test value
Sample as above	Thermal resistance	---	At 70°C/12 hrs	No effect
	Chemical resistance	---	ASTM D 543	
	a) in dil. HCL			No effect
	b) in dil.NaOH			No effect
	c) in saturated CaCl <sub>2</sub>			No effect

The decision rule applied for statement of conformity, for borderline results, considering the uncertainty of measurement is: NOT APPLICABLE. Opinion & interpretation for this report: NOT APPLICABLE

  
Authorized Signatory  
B. R. Phadnis  
Chief Executive

N.B.: No liabilities are accepted, whatsoever, for this test report. Valid only for the sample tested. Not for publication. Not for legal purpose.

----- END OF REPORT -----

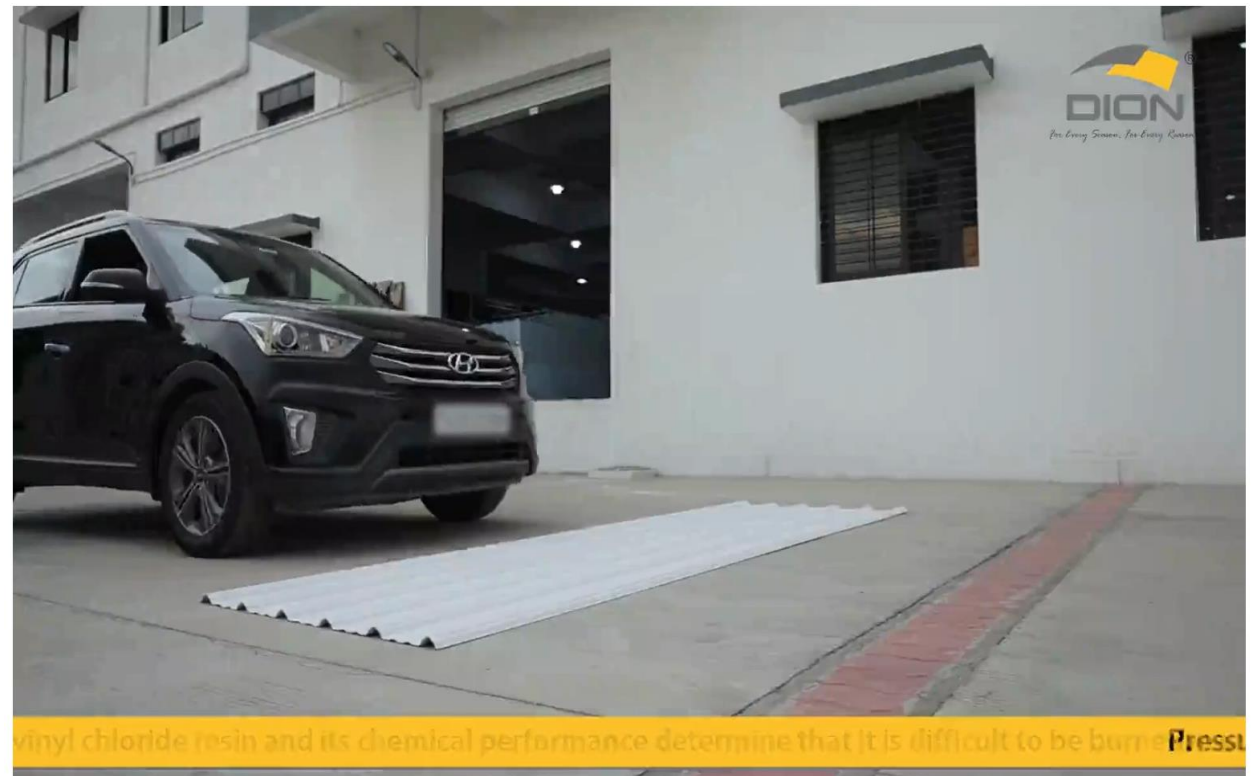


## Product Features: DION UPVC Sheets



### PRESSURE PREVENTION: HIGH STRENGTH & DURABILITY

- DION uPVC Sheets has very good load bearing performance. No damaged when 225kg is evenly loaded with support distance being 750mm for 4.0mm Thickness.





## Product Features: DION UPVC Sheets

### FIRE RETARDANT:

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

सिपेट : पेट्रोकेमिकल्स तकनीकी संस्थान ( आई.पी.टी. )  
( पूर्व में पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान )  
राजधानी एवं पेट्रो-राजधानी विकास  
प्रधान एवं जल-संयोजक, नगर विकास  
परिच : प. 630 विमान-4, सी.आई.टी.डी., 60008, अहमदाबाद-382445  
दूरभाष : (079) 40103500-5022, फ़ोन : (079) 40083905  
ईमेल : cipetahmed@gmail.com, ahmedabad@cipet.gov.in  
वेबसाइट : www.cipet.gov.in  
मुद्रांकन : सिपेट, गुन्दी, चेन्नई - 600 032

  
CIPET : INSTITUTE OF PETROCHEMICALS TECHNOLOGY (IPT)  
( Formerly Central Institute of Plastics Engineering & Technology )  
Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
Plot No. 630, Phase-IV, G.I.D.C., Vardol, Ahmedabad-382445  
Tele : (079) 40103500-5022, 5023, Fax : (079) 40083905  
Email : cipetahmed@gmail.com, ahmedabad@cipet.gov.in  
Head office : CIPET, Gundry, Chennai - 600 032

प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

Sheet Test Report No.: 597  
Dated : 30.07.2024

Sr. No.	Test	Test Method	Unit	Results Obtained
1	Density	ASTM D 792	gm/cc	1.60
2	Vicat Softening Temperature at 10 N	ASTM D 1525	°C	79
3	Heat Deflection Temperature at 66 PSI		°C	75.6
4	Heat Deflection Temperature at 264 PSI	ASTM D 648	°C	71.8
5	Heat Deflection Temperature at 1.8MPa		°C	71.8
6	Tensile Strength at break		MPa	27.92
6	Elongation at break	ASTM D 638	%	20
7	Flexural Strength	ASTM D 790	N/mm <sup>2</sup>	63.48
8	Flammability	UL - 94	---	Match with Vo
9	Water Absorption (Change in Mass, 24 hrs.)	ASTM D 570	%	0.072
10	Rate of Burning	ASTM D 635	---	The flame front did not reach the 25mm ref. mark
11	Resistance to Chemical (10% HCL for 24 hrs.)	ASTM D 543	%	No visible change observed
12	Notch Charpy Impact strength	ASTM D 6110	J/m	105.7

Note : i) Statement of Conformity & Decision Rule (if any) : NA  
ii) Opinion & Interpretation : NA

**PART D**

REMARKS : 1. Nil  
NOTE : 1. The results related only to the items tested.  
2. The report shall not be reproduced in full/part without written approval of the laboratory.  
3. This Test Report/Certificate is issued only for the samples submitted to CIPET.  
4. The results stated above related only to the items tested.  
5. The quality of the subsequent production lot has to be ensured by the purchaser.

  
Authorised Signatory  
भारती क. एल. / BHARATHI K. L.  
तकनीकी अधिकारी / TECH. OFFICER

  
Authorised Signatory  
कीर्ति थिरुवेथी / KIRTHI THIRUVETHI  
वरिष्ठ. तक. अधिकारी / SR. TECH. OFFICER

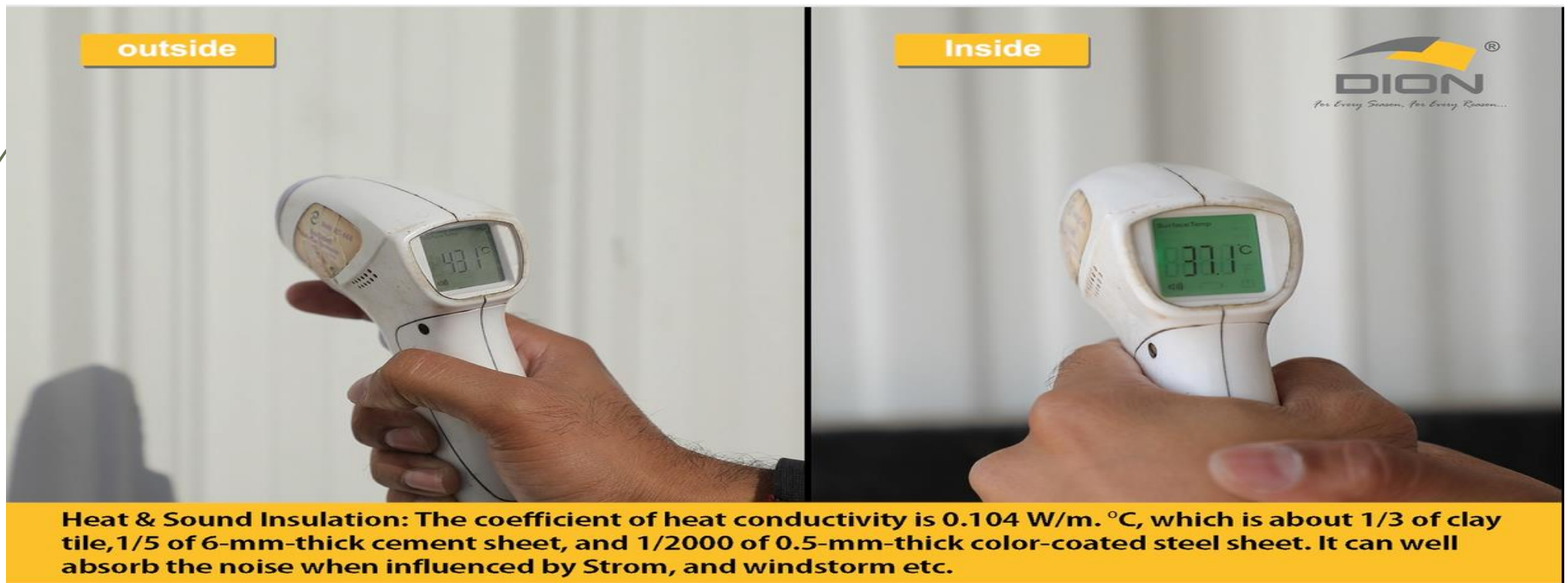


## Product Features: DION UPVC Sheets



### HEAT & SOUND INSULATION:

- Heat insulation up to 10-15%, The coefficient of heat conductivity is  $0.104 \text{ W/m} \cdot ^\circ\text{C}$ , which is about  $1/3$  of clay tile,  $1/5$  of 10mm thick cement sheet, and  $1/2000$  of 0.5mm thick color coated sheet. It can be well absorb the noise when influenced by heavy rain, storm and windstorm etc.





## Product Features: DION UPVC Sheets

### EASY FABRICATION:

- Easy to cut, shape, and install, saving labour time and reducing costs.



[www.dioninc.in](http://www.dioninc.in)



## DION uPVC SHEET



**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**

Diagram showing a trapezoidal wave profile with the following dimensions:

- Wave height: 27.5 mm
- Wave width: 211 mm
- Wave period: 2.97 mm
- Wave width: 4 mm
- Wave period: 15.5 mm
- Wave width: 20 mm
- Wave period: 24.97 mm
- Wave width: 30 mm
- Wave period: 58 mm
- Wave width: 11.9 mm
- Wave period: 5.8 mm
- Wave width: 3 mm
- Wave period: 3 mm

Effective width: 1060 mm

**ASA uPVC ROYAL TILE SHEET**

Dimensions shown:

- Total Length: 1050 MM
- Width: 160 X 6 = 960 MM
- Wave Height: 82.5 MM
- Trough Depth: 76.2 MM
- Pitch: 160 MM
- Vertical Dimension: 30 MM

Effect e: 960mm

Height 40mm

Width: 1080mm

250mm

170mm



## Available Accessories:



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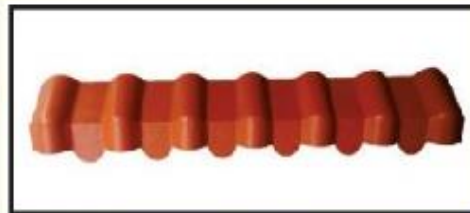
### ACCESSORIES



Main Ridge (1050mm)



Main Ridge Cap



Fascia Board (1050mm)



3 Way Ridge



Transparent Sheet



Side Ridge (1050mm)



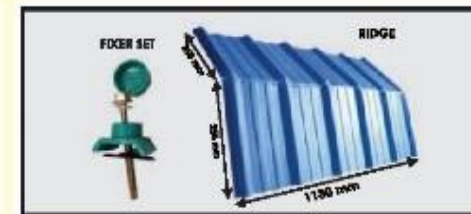
Side Ridge Cap



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

**Applications:** Ideal use for Chemical, Pharma, Fertilizer, steel & iron industries, coastal areas, chemical processing unit etc. Due to its **Non corrosive Properties.**

## 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 firms 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.



**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.



## Benefits to your Company:

### A. Cost-Effectiveness

- While initial costs may be higher than traditional roofing materials like metal or fiber sheets, **DION UPVC Sheets offer a longer lifespan**, with minimal maintenance required, leading to significant savings over time.
- **Energy Savings:** The heat insulation reduces cooling costs for buildings by up to 20%, resulting in lower energy bills.
- **Low Maintenance:** The anti-corrosive nature of the material means fewer repairs or replacements, cutting down long-term operational expenses.

### B. Durability and Reliability

- **Long Lifespan:** DION UPVC Sheets are built to last 12-15 years, even in harsh environments like coastal areas or industrial sites with exposure to chemicals.
- **Weather Resistant:** These sheets are resistant to UV radiation, meaning they won't fade (white & off white colour), warp, or crack under prolonged sun exposure.

### C. Compliance and Standards

- DION UPVC Sheets meet **international standards** for roofing materials, including **ISO certification** for quality and safety.
- They are compliant with environmental and building regulations, ensuring smooth project approvals.



## Supply Chain Reliability and Support:

### A. On-Time Delivery

- At DION, we understand that timing is critical for procurement teams. Our **supply chain management** ensures **on-time delivery** for all orders, regardless of size or location.
- **Flexible Delivery Options:** We provide customized delivery schedules to meet the needs of your projects, ensuring no delays in construction or installation.

### B. Consistency in Supply

- We maintain **large inventories** and a scalable production capacity (5500m<sup>2</sup>/Day), allowing us to meet even the most demanding order volumes without compromising on quality or timelines.

### C. After-Sales Service

- **Support:** We offer full after-sales support, including training for installation teams and ongoing technical assistance to ensure the product delivers maximum value.

## Comparison with Other Roofing Materials:

Feature	DION UPVC Sheets	Metal Roofing	Fiber Sheets
Durability at chemical environment	12-15 years	2-3 years	3-5 years
Heat Insulation	Excellent	Poor	Moderate
Corrosion-Resistant	High	Low	Low
Fire Resistance	High	Moderate	Low
Cost Over Time	Low (due to lifespan)	Moderate to High	High

### Unique Selling Proposition (USP):

- DION UPVC Sheets** outperform traditional roofing materials in all the key areas that matter: durability, energy efficiency, and long-term cost savings.

While other materials degrade, rust, or require frequent maintenance, **DION UPVC Sheets maintain their strength and appearance** for decades

## Some of our Valuable Clients:

- USHA MARTIN LTD. RANCHI (550000 SQ.FT.)
- SHYAM METALICS FLAT PRODUCTSS PVT. LTD. BAHADURPUR (258000 SQ.FT.)
- JINDAL STAINLESS LIMITED. JAJPUR (215000 SQ.FT.)
- INDIAN FARMERS FERTILISERS COOPERATIVE LTD. (IFFCO) PARADEEP, KALOL, SENEGAL (1200000 SQ.FT.)
- SUN PHARMACEUTICAL INDUSTRIES LTD. PANOLI, VADODARA, NAWANSAHAR (2500000 SQ.FT.)
- PIDILITE IND. LTD. VAPI, BOISAR (220000 SQ.FT.)
- UPL LTD. JHAGADIA, BOISAR (350000 SQ.FT.)
- N R AGARWAL INDUSTRIES LTD. VAPI (85000 SQ.FT.)
- VITAL HEALTH CARE PVT. LTD. VAPI (125000 SQ.FT.)
- GOOD LUCK INDIA LTD. SECUNDRABAD, SIKARA (450000 SQ.FT.)
- NIRMA LIMITED. KALATALAV (550000 SQ.FT.)
- APL APOLLO TUBES LTD. SECUNDRABAD, BHILAI (300000 SQ.FT.)
- ARADHYA STEEL PVT LTD. DAVANGERE (125000 SQ.FT.)
- HINDUSTAN COCA COLA BEVERAGES PRIVATE LIMITED. MYSORE (62000 SQ.FT.)
- DR.REDDY'S LABORATORIES LTD. VISAKHAPATNAM (127000 SQ.FT.)

\*Note: The mentioned quantities are approximate, and supply is ongoing.

## Durability of DION uPVC Sheet:



125000 sq.ft. (approx.) project done in the year 2011

3.0mm Thickness for Roof  
2.0mm 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 new sheet installations cost of metallic sheet \* T/c's apply



## Replacement of Metal Sheet:



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**PROJECT TYPE: GALVANIZING PLANT**  
**COVER AREA: 180000 SQ.FT. (APPROX.)**  
**ISSUE TYPE: HIGHLY CORROSION**  
**METAL SHEET LIFE: MAX. 2 YEARS**



**REPLACE MATERIAL: DION UPVC SHEET**  
**THICKNESS: 3.5MM**  
**MAX. LENGTH: 39 FEET.**  
**LIFE EXPECTATION: 5 CYCLES OF METAL SHEET WITH PROPER INSTALLATION GUIDELINES.**



## Replacement of Asbestos Sheet:



Industry Type: Fertilizer & Chemical  
Current project Coverage area: 65000 square feet approx.  
Old used sheet type: Asbestos Sheet  
Replaced sheet type: **DION UPVC Sheet** 3.0mm thickness  
Issue type: Brittleness & dusting due to chemical environment.



## Some of our Project Photos:



**DION**

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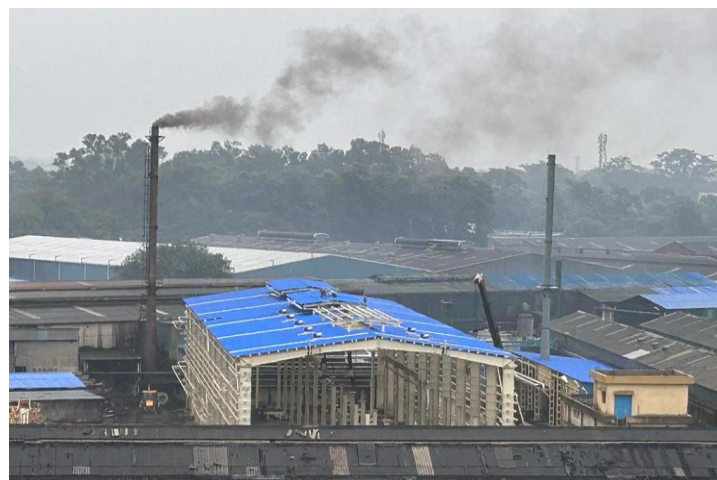
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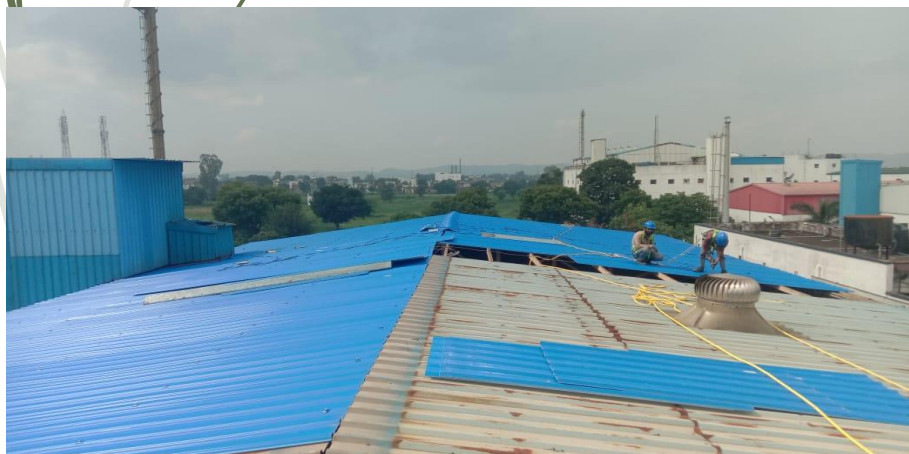




## Some of our Project Photos:



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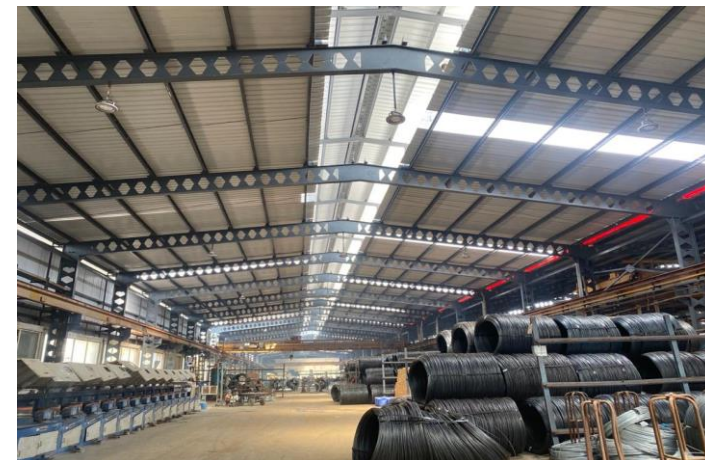
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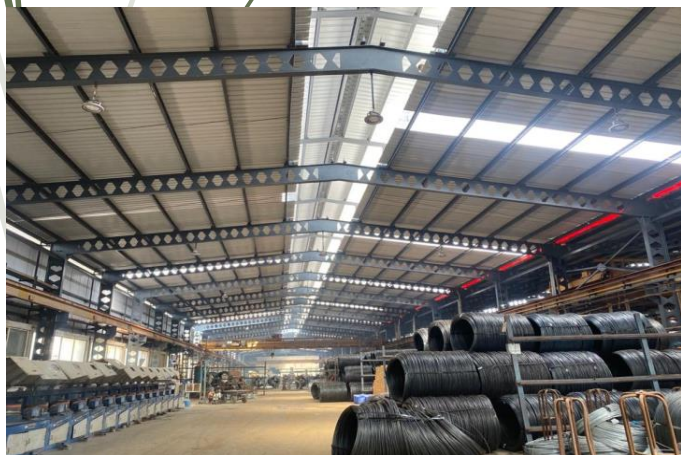
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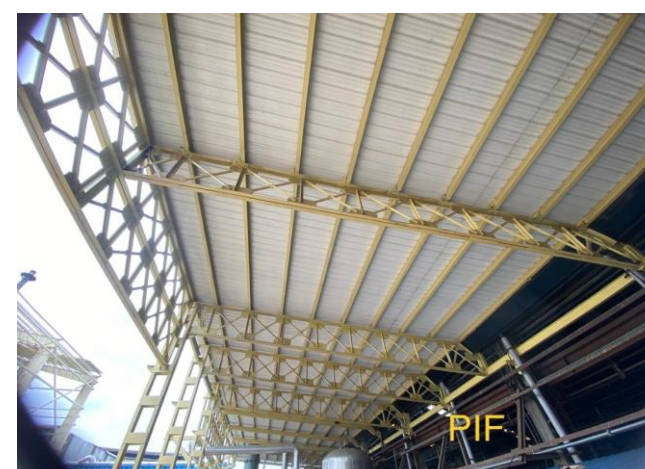
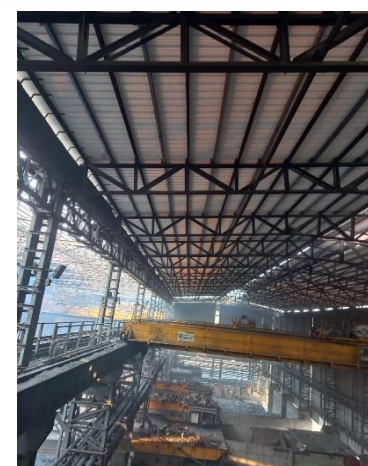




## Some of our Project Photos:



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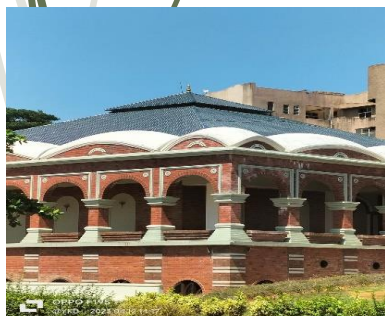


## Some of our Project Photos:



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# Conclusion

DION UPVC Sheets offer **unmatched value** in terms of **Anti corrosion, cost-efficiency, durability**, and **performance**.

We are committed to providing a **long-term partnership** that goes beyond just selling a product – we offer ongoing support and ensure that your roofing solutions are robust, sustainable, and cost-effective.



**Thank You for your Valuable Time**



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## DION INCORPORATION

### Corporate Office :

403, Alap A, Limda Chowk,  
Rajkot - 360001, Gujarat (India)  
Contact : +91 281 2460580, +91 90330 57756  
E mail : [marketing@dioninc.in](mailto:marketing@dioninc.in)  
Web : [www.dioninc.in](http://www.dioninc.in)

### Factory :

Plot No 345 to 348 & 367 to 370,  
Golden Green Industrial Park, Ravki Road  
Village: Khambha, Ta. : Lodhika,  
Rajkot - 360311, Gujarat (India)  
Contact : +91 90330 33656  
E mail : [info@dioninc.in](mailto:info@dioninc.in)  
Web : [www.dioninc.in](http://www.dioninc.in)

**DION Quality & Aesthetics – A perfect Combination to match your Roofing needs.**