



WATTSON GROUP

Wattson Group is highly experienced for Standard Design, Supply, Installation, Testing & Commissioning with consulting services for composite projects in the field of HVAC, Refrigeration, Clean Room, Humidification Plant, Waste Energy Recovery, Co-Generation & Power Plant EPC.

Wattson Engineering & Consultants Limited

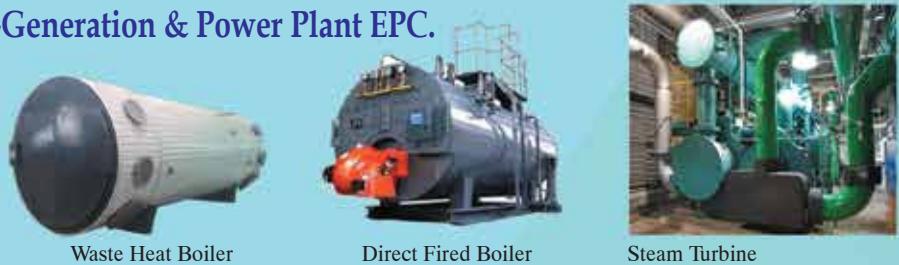
HVAC Products :

Wattson Engineering & Consultants Ltd. is one of the most experienced Organizations who started its operation as a pioneer in the field of HVAC (Central Air Conditioning), Humidification Plant & Dehumidification Plant.



Generator Waste Heat Recovery, Co-Generation & Power Plant EPC.

Wattson is one of the Leading Organizations to use Generator Waste Heat in Co-Generation System, Steam Turbine & Power Plant EPC.



Wattson Euro Panel Industries Limited

Our Products :

Wattson Euro Panel Industries Ltd. is PU Sandwich Panel manufacturer & highly experienced in Cold Room EPC. It has been accepted by world wide clients in the fields of-

- ❖ Pharmaceuticals for Walk on False Ceiling, Door, Wall and Clean Room.
- ❖ Cold Room & Cold Storages.
- ❖ Hospital and Operation Theater.
- ❖ Hotel, Covered Van & Poultry.
- ❖ Fish, Meat, Food & Vegetable Processing Plant.
- ❖ Even for Industrial Roofing Also.



Hydro Chemical Bangladesh

Hydro Chemical Bangladesh is a full service Industrial & Chemical Water Treatment Company. We provide our clients the best possible Molecular Technology and Service. We develop Treatment Programs to reduce Energy and Maintenance costs and extend the life of our client's capital equipment.

Our Products and Services include :

- ❖ Steam and Hot Water Boiler Chemicals.
- ❖ Cooling Water (Cooling Tower) Treatment Chemicals.
- ❖ Waste Water Treatment.
- ❖ RO system.
- ❖ Soft water system.
- ❖ EDI System.



RO System

Hydrotreat Series Product



Soft water system



EDI System

Different Types of Water Circulating Pump



IS Series Pump



SLD Series Pump



SIO Series Pump



IS Series Pump



SLW Series Pump

Watson Air-Conditioning Limited

Watson Air-Conditioning Ltd. is one of the most popular & acceptable organizations in Bangladesh with better quality & services in the field of Air-Conditioning System.

Our Products :



Ducted Split AC



Split AC



Panel AC



Outdoor Unit

Contact Us :

Head Office : House # 27/1 (3rd & 4th Floor), Road # 13/A
Dhanmondi, Dhaka-1209, Bangladesh

Tel : +88 02 55000740-3, 58157757, Cell : +88 01841 326 219, +88 01841 326 214

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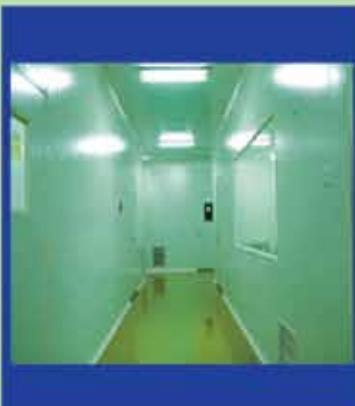
WATTSON EURO PANEL INDUSTRIES LTD.

First PU Sandwich Panel Manufacturer in Bangladesh

It has been accepted by our Local and world class all renowned clients in the field of

- ❖ Pharmaceuticals for walk on false ceiling, Door, wall and clean room
- ❖ Hospital and OT
- ❖ Cold Room and Cold storages
- ❖ Fish, Meat, Food and vegetable processing plant
- ❖ Even for industrial roofing also and
- ❖ Covered van for above logistics and transport.

It has good insulating features with Better Quality and Satisfaction



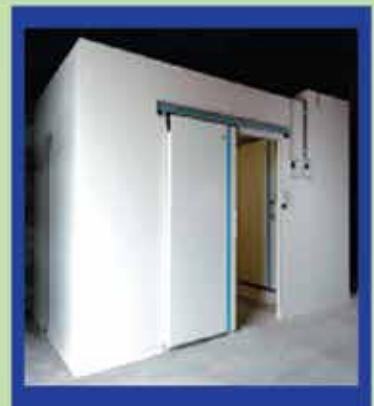
Clean Room



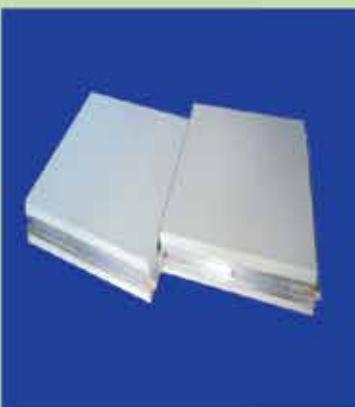
Swing Door with View Panel



Coving



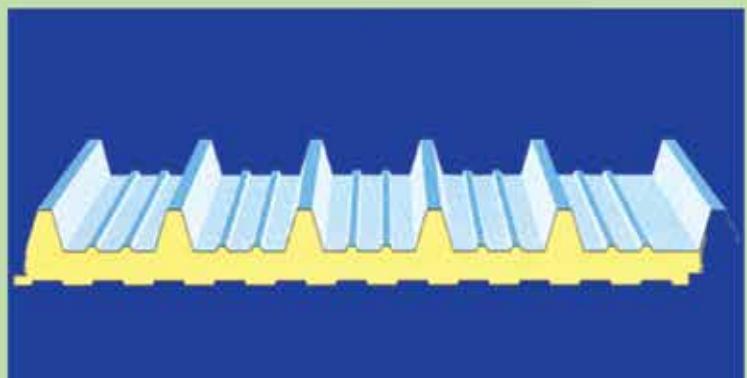
Cold Room



PU Panel



Clean Room Door (Swing)



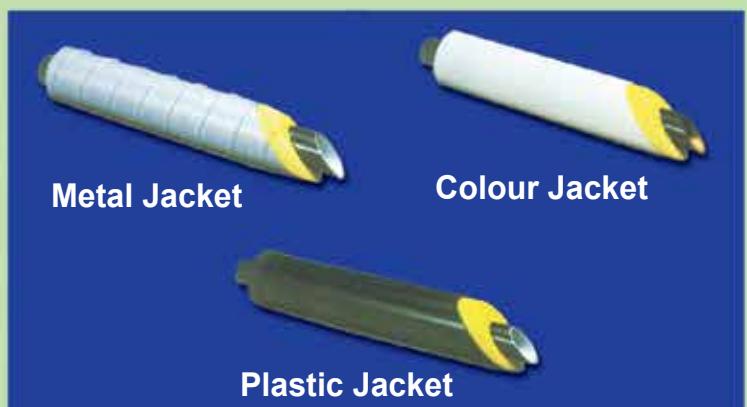
Roofing or Corrugated Panel



Half Round PU Insulation



PU Pipe Insulation with Aluminium Foil



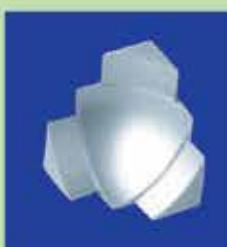
Metal Jacket

Colour Jacket



Plastic Jacket

Pre Insulated PU Pipe Insulation



Coving corner, Coving Curve & Angle

Rectangular & Spiral Duct Manufacturing, Supply & Installation

Duct Work Machinery in HVAC



Duct Manufacturing by all Imported world class duct making machine as per world standard (ASHRAE & SMACNA) for the HVAC central air conditioning system at Commercial, Hotel, Pharma, Hospital, Textile, Spinning and Germents Industries.

Supply & Installation of Insulation Material as Below



Rubber Foam Insulation

Introduction to RUBBER FOAM : This program is designed to help calculate and determine the appropriate thickness of RUBBER FOAM Closed Cell Thermal Insulation for use in HVAC & R applications (heating, ventilation, air condition & refrigeration) and other general information for your convenience.



Rock Wool Blanket

Rock Wool Insulation : Rock wool has excellent high heat & thermal insulation feature, excellent compressive strength & tensile strength properties and sound absorbing effect. Inside the rock wool there is no asbestos, CFC, HFC when it is producing. It has 30-200kg/m³ density, 0.0.-0.42 w/m.k thermal conductivity. Average fiber diameter is 4-6µm.



Glass Wool Insulation

Glasswool Insulation : High quality glass wool is a kind of glass wool fiber and a kind of artificial inorganic wool. There are many fine gaps in glass wool, which are regarded as pore spaces, therefore the glass wool can taken on as porous material with excellent thermal and sound absorption performance.



Closed Cell with Aluminium



Rock Wool Board



Glass Wool Board

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WATTSON EURO-PANEL INDUSTRIES LTD.

Wattson Euro Panel Industries Ltd. is PU Sandwich Panel Manufacturer & Highly Experienced in Cold Room EPC. It has been accepted by world wide clients in the fields of-

- ◆ Pharmaceuticals, Hospital and OT, Textile and commercial building, wall, walk on false ceiling.
- ◆ Cold room and cold storage.
- ◆ Fish, meat, food and vegetable processing plant.
- ◆ Cosmetics and beverage industries.
- ◆ Compressed gas industries.
- ◆ Chemical Industry.



Clean Room



Cold Room



Clean Room with Vision Window

Panel Technical Data

Product Name : Heat Insulated Panel
 Application : Wall, Ceiling and Floor Panel
 Available Thickness : 50, 75, 100, 125, 150, 200, 250 mm

Compliance Standard :

Good Manufacturing Practice; GMP, cGMP

Surface Metal:

Interior : PPGI 0.5 mm with 70 microns PE protective film
 Exterior : PPGI 0.5 mm with 70 microns PE protective film
 Color : Standard off white
 Paint Type : Regular Modified Polyester
 Paint Coating : Top/Back 20/5 microns
 Back Coating : Foam Grey
Specification may change as per client requirement

Core Material:

Material : Polyurethane Foam
 Standard : DIN4102-1 B₂ or B₃
 Type : Self-Extinguishable grade with fire retardants
 Closed Cell Content : >92%
 Compressive Strength : 191 kpa
 Blowing Agent : HCFC141b or CFC Free
 Density : 40-45 kg/m³ or above

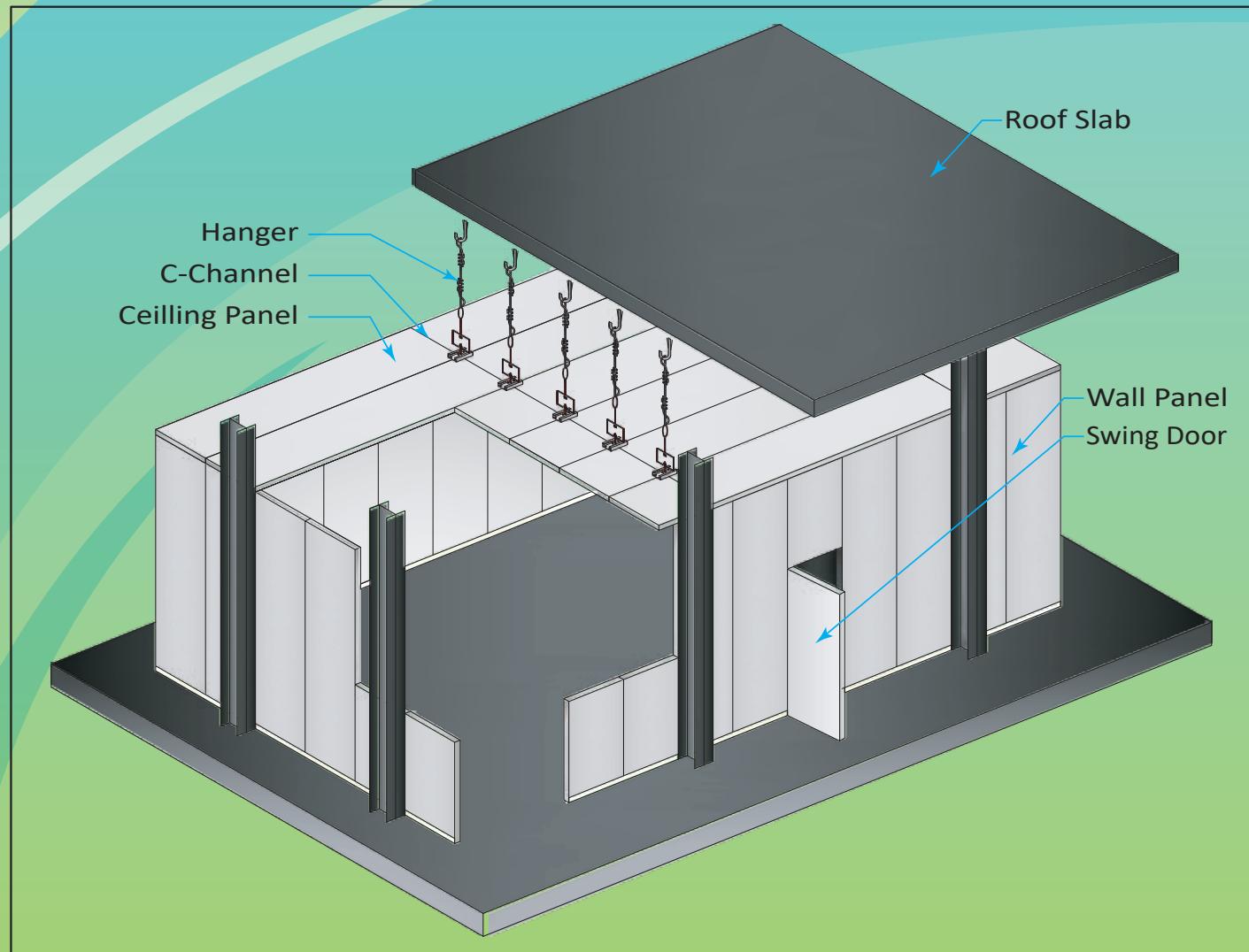
Available Size : Width : Max 1219 mm

Length : 3048 to 12000 mm (as per client requirement)

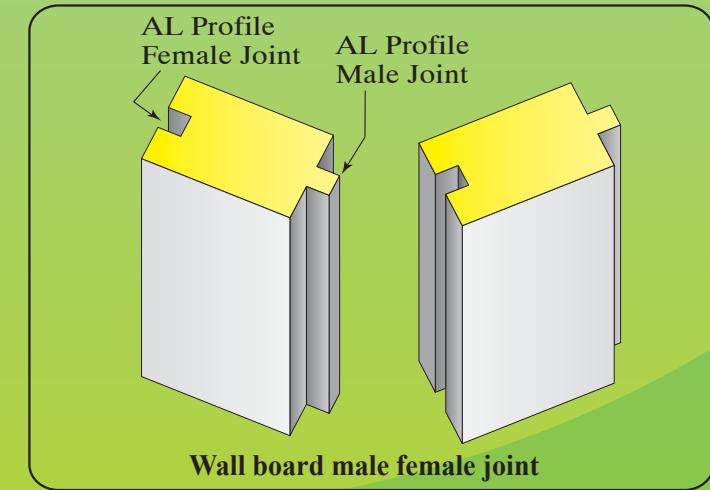
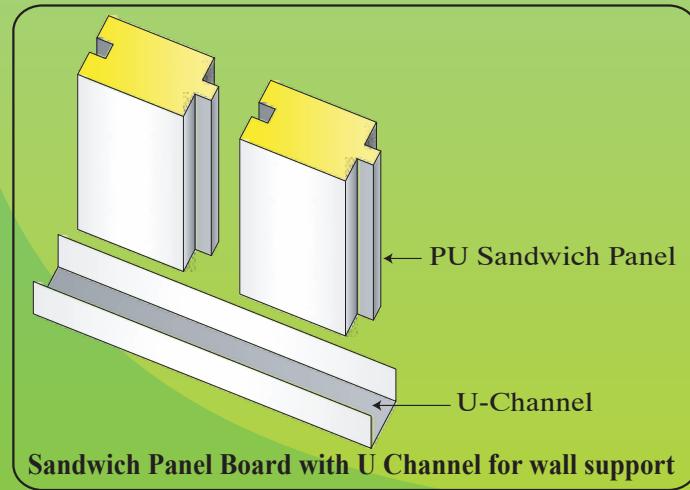
Properties	Polyurethane Foam
Thermal Conductivity (W/m. K)	0.018
Heat Transfer Coefficient (at 50 mm thick) (Kcal/m ² .hr. ⁰ C)	0.352
Max. working Temp (°C)	120
Flammability	Self extinguishable, B ₂ /B ₃
Panel Thickness	As per client requirement
Moisture Deterioration	No

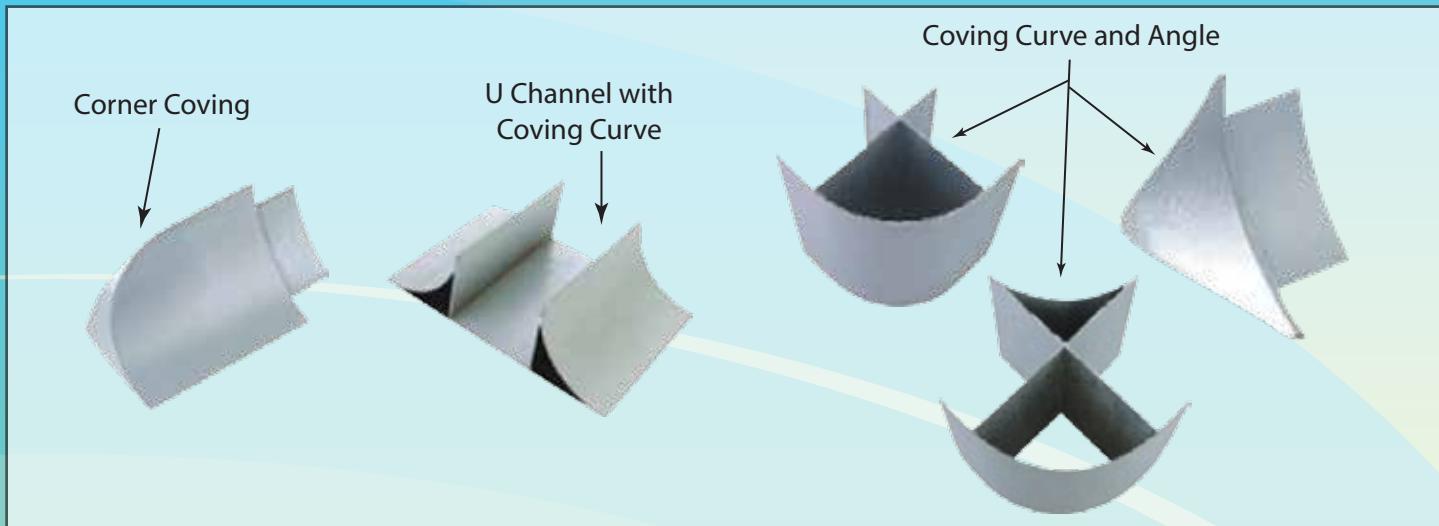
Panel Thickness for PU mm	Heat Transfer Coefficient K (Kcal/m ² .hr. ⁰ C)	Room Temperature (°C)	Thickness (mm) for EPS Panel
50	0.352	0°C < temp	100
75	0.235	-10°C < temp < 0°C	150
100	0.176	-20°C < temp < -10°C	200
125	0.141	-30°C < temp < -20°C	250
150	0.117	-40°C < temp < -30°C	300

Installation Details

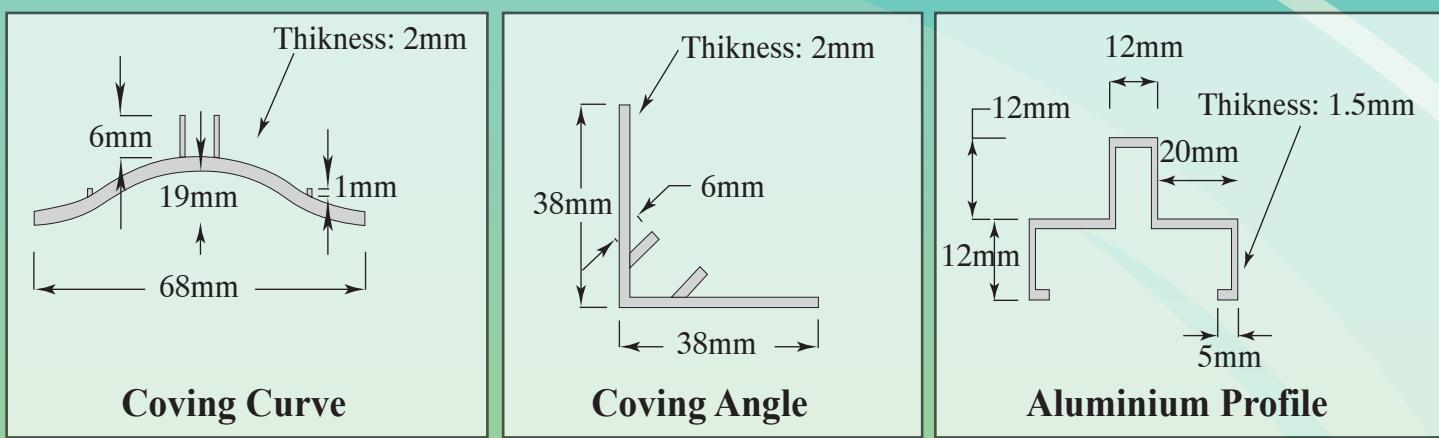


Step by Step Installation Details

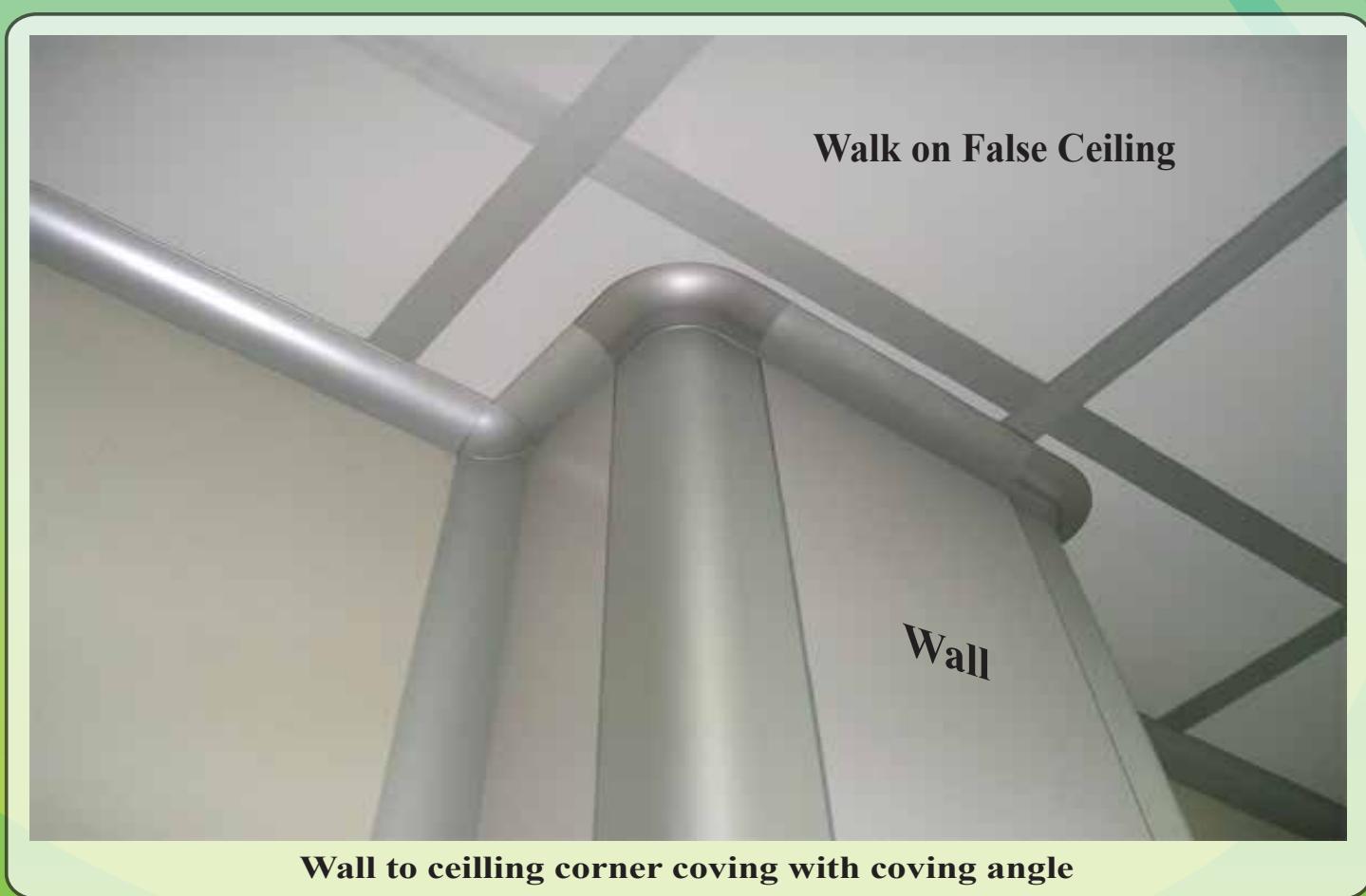




Wall to wall properly fixed by coving curve and angle



Walk on False Ceiling

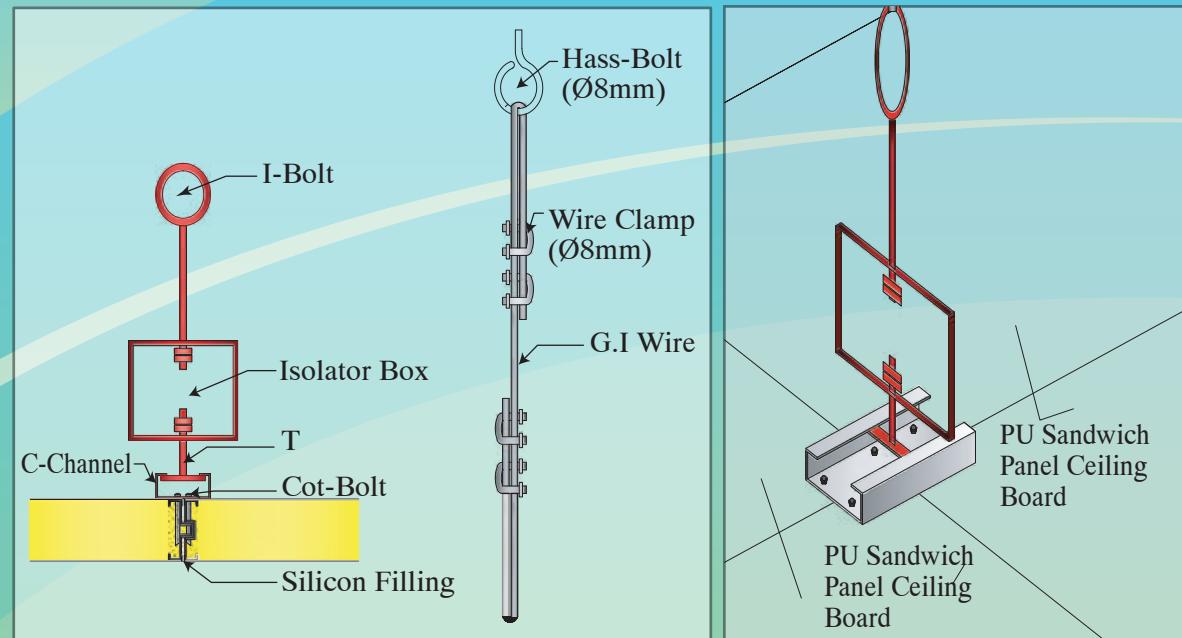


Wall to ceiling corner coving with coving angle

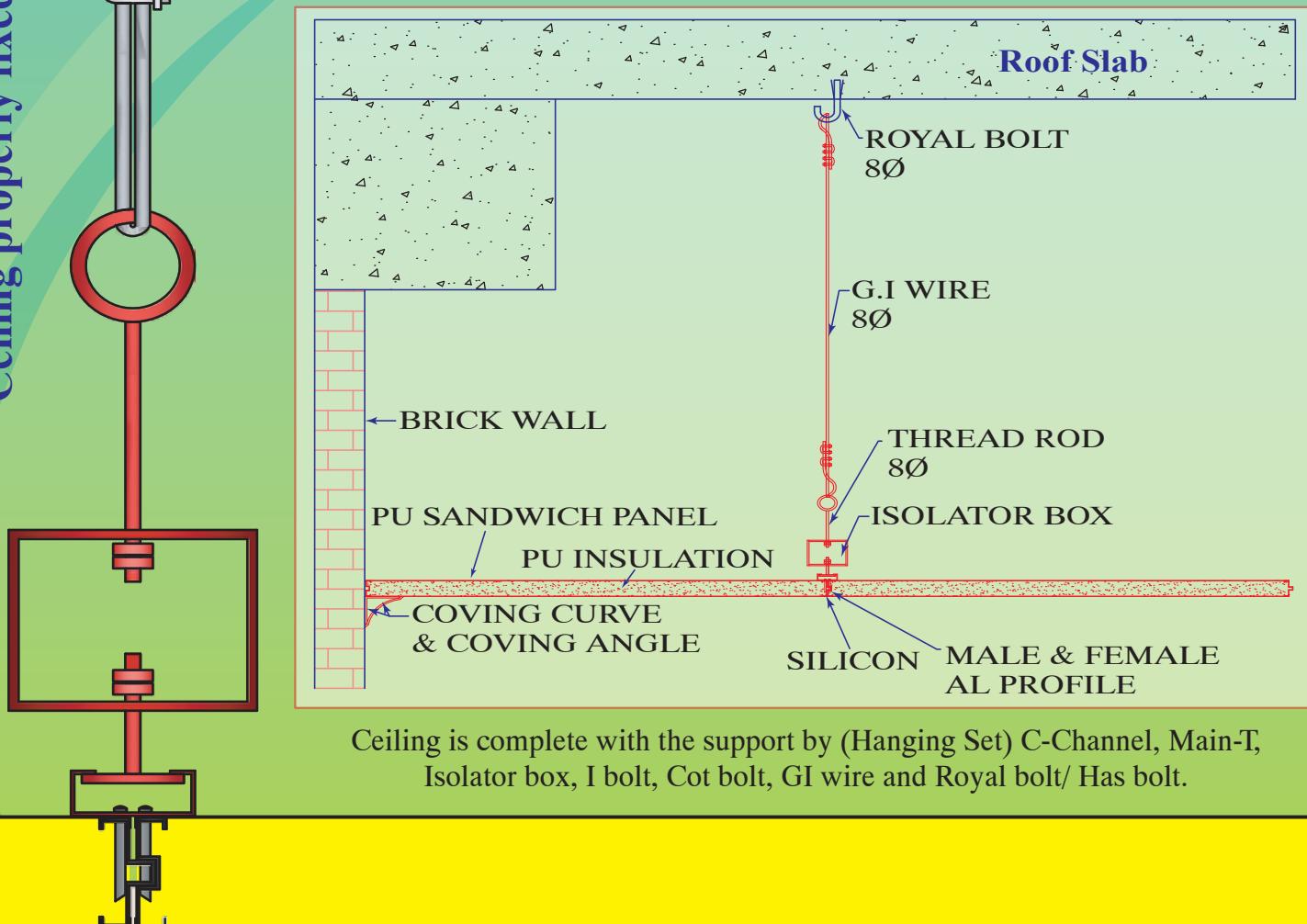
● Note : Above may change as per client requirement

Ceiling properly fixed by hanging set

Hanging Set & Installation Procedure



Hanging set installation



Ceiling is complete with the support by (Hanging Set) C-Channel, Main-T, Isolator box, I bolt, Cot bolt, GI wire and Royal bolt/ Has bolt.

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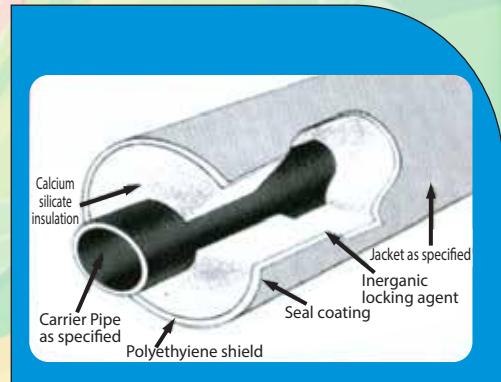
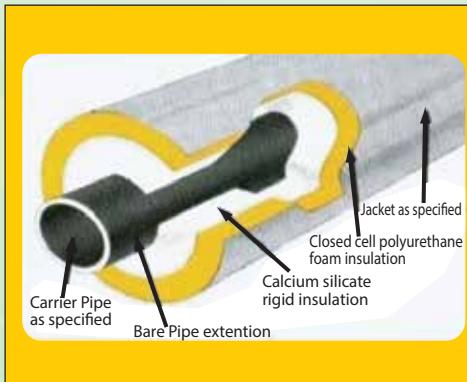
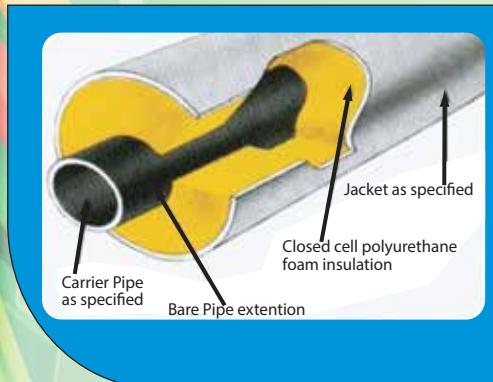
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WATTSON EURO-PANEL INDUSTRIES LTD.

First class quality and it has been accepted by world wide all renowned clients of chilled water pipe insulation in the fields of—

- ◆ Central Air-Conditioning HVAC systems piping in Pharmaceuticals, Hospital, Textile and commercial building.
- ◆ Cold room and cold storage.
- ◆ Fish, meat, food and vegetable processing plant.
- ◆ Cosmetics and beverage industries.
- ◆ Compressed gas industries.
- ◆ Chemical Industry.



METAL JACKET

COLOR JACKET

PLASTIC JACKET

- ◆ Hot dipped galvanized steel or outside lock seam spiral tube standard thickness
 - 0.5 mm for jacket size up to 506mm
 - 0.7mm for jacket size cover 506mm
- ◆ Aluminum standard thickness: 0.8mm
- ◆ Precoated alminume outside lockseam spiral tube
- ◆ Precoated or spray coated galvanized steel outside lockseam spiral tube
- ◆ High density polyethylene inside conforming to:
 - DIN 8074
 - DIN 8075
 - MS 1058

Pre Insulated polyurethane (PU) Pipe Insulation:



BENEFITS OF PREINSULATED PU PIPE INSULATION:

❖ Single Source For Entire System

One purchase order and receive a complete preinsulated PU Pipe insulation system including carrier pipe, thermal insulation, protective jacketing, prefabricated fitting and joining materials to meet customer requirements.

❖ Design Flexibility

Preinsulated piping systems are not a stock item but rather a combination of available materials that meet each customers specific design requirements. Approach to aboveground piping offers the designer more latitude in his selection of career pipe, protective jacket and pipe joining method. He has the added benefit of being able to add tracing, as required.

❖ Prefabricated to actual job requirements and dimensions

A complete system in 6 meter unit lengths is delivered to the job site along with fittings and accessories. Each unit can be part number for easy identification during insulation. Prefabrication reduces material storage and handling requirements and eliminates waste and damage.

❖ Quality controlled

Pre insulated PU Piping systems must pass a rigid inspection at our plant not the customers. Modern techniques and well trained fabricators are the customer's assurance of quality. Preinsulated piping systems arrive at the job site with all insulation protected from the elements. Insulation remains dry and efficient throughout transport, storage and insulation.

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HYDRO-CHEMICAL BANGLADESH

About Us

Hydro Chemical Bangladesh (HCB) is one of the leading specialty chemicals for water treatment in Bangladesh. HCB has full service in Commercial central air conditioning projects, Industrial projects like as Power plant, Textiles, Weaving, Denims, Spinning, Chemical plant and chemical Process Water Treatment Company.

HCB always focus on customer satisfaction. HCB is a preferred partner of customers and suppliers in our key markets. We measure our success by our ability to fulfill customers' orders with highest degree of efficiency and reliability. Our market focused sales & technical teams offer solutions to customers' problems utilizing our comprehensive and complementary product portfolio. We develop Treatment Programs to reduce Energy and Maintenance costs and extend the life of our clients' capital equipment. HCB always focus on innovation and quality development. A strong Research & Development back-up is one of the core strengths of HCB. Pure and applied research combined with technological innovations help to develop quality products to the highest specification.

In the upcoming year we will move from strength to strength in the key market.



**Keep Clean, Make Green
Save Power, Save Money**

Contact : R# 13/A, H# 27/1 (3rd & 4th Floor), Dhanmondi, Dhaka, Bangladesh.
E-mail : hydrochemical.bd@gmail.com, Web: www.wattsongroup.com
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Key Strengths

- ❖ Focus on offering solutions through complimentary product range.
- ❖ Focused on Innovation and Quality development.
- ❖ Strong Research and Development Team.
- ❖ Provides best in class logistics support to customers.
- ❖ Partnering approach with principals to ensure proper value additions.
- ❖ Expanding the portfolio with world's renowned companies to capture high growth opportunities in Bangladesh.

Mission

Hydro Chemical Bangladesh is regularly sought to bring revelation in the Water treatment Chemical sector. Providing services with the cost efficiency and best services. Customer satisfaction is the ultimate goal of HCB.

Our Philosophy

HCB is committed to quality. We never compromise with the quality. Customer satisfaction is our main capital. We strive for customer satisfaction and always dedicated to the customer. We love to tell that "WE ARE FOR YOU". It means we are dedicated to you. HCB always concern about the environment. We use eco-friendly machineries materials.

Products Range

Sl. No.	Product code	Product description	Packing size/Drum	Remarks
1.	Hydrotreat C103	Corrosion & Scale Inhibitor	25 kg	Chiller& Generator Cooling tower
2.	Hydrotreat C113	Corrosion & Scale Inhibitor	25 kg	Chiller &Generator Cooling tower
3.	Hydrotreat C114	Corrosion & Scale Inhibitor	25 kg	Chiller Cooling tower
4.	Hydrotreat C 2150	Main biocide	25 kg	Chiller &Generator Cooling tower
5.	Hydrotreat C 2100B	Backup biocide	25 kg	Generator & Chiller Cooling tower
6.	Hydrotreat C 317	Corrosion & Scale Inhibitor	25 kg	Chilled Water
7.	Hydrotreat C 615	Corrosion & Scale Inhibitor	30 kg	Hot water
8.	Hydrotreat B 502	Corrosion & Scale Inhibitor	25 kg	Boiler
9.	Hydrotreat B 400	Steam line pH Increaser	25 kg	Boiler
10.	Hydrotreat B2084	Anti-scaling agent	27 kg	Boiler
11.	Hydrotreat B 120	Oxygen scavenger	27 kg	Boiler
12.	Hydrotreat B 41	Corrosion & Scale Inhibitor	30 kg	Boiler
13.	De-scaler 1300	De-scaling agent (Liquid)	225 kg	De scaler
14.	De-scaler 1300D	De-scaling agent (Liquid)	225 kg	De scaler

Country of Origin: Malaysia

Sales & Services

- ❖ Water treatment chemicals for Boiler, Chiller & Generator Cooling Tower, Heat exchanger and all other Industrial Machineries.
- ❖ De scaling chemicals for Chiller, Boiler, Heat exchanger & other Industrial Machineries.
- ❖ Supply of all chemicals for WTP, ETP, RO, & EDI Plant

Mission

- ❖ Water Softener Plants
- ❖ Reverse Osmosis Plants(RO)
- ❖ Water Treatment Plant(WTP)
- ❖ Auto filter for Chiller (To protect Chiller inside Scaling)
- ❖ Electro deionization (EDI)
- ❖ De-Mineralized & Distilled Water plants
- ❖ Membrane Bed Water Separation
- ❖ Ultra-filtration system
- ❖ Infill of all Cooling Tower



In House Lab Testing



Water Softener Plant



Sand Filter



Reverse Osmosis Plant



Dosing Pump



Water Treatment Plant



Electro deionization (EDI)



Ultra Filtration System



Water Softener Resin

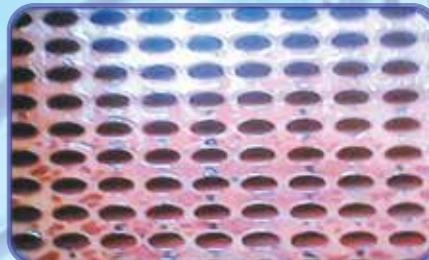


Water Softener Salt

Projects Work Done by HCB



Chiller Condition before & after De-Scaling



Boiler De-Scaling Before & After



Cooling Tower Infill Condition Before & After Cleaning



Heat Exchanger De-Scaling Before and After



HYDRO-CHEMICAL BANGLADESH

User List of Chemical

Our client list is full of renowned clients. From the hundred of clients few clients has been shown below:

SQUARE Fashions Limited A 1 STOP SOLUTION FOR RMG	AA GROUP	BADSHA GROUP OF INDUSTRIES	SINHA GROUP
PARAMOUNT TEXTILE	PIONEER KNITWEARS (BD) LTD.	CRC Textile Mills Ltd. 100% Export Yarn Manufacturer	envoy textiles Ltd.
Continental Garments	ASIA Stands For Quality Yarn	Multajim Group	PARTEX STAR GROUP a legacy with a new dimension
Pioneer Denim Ltd. Together we'll achieve...	Abdul Monem Ltd. touching lives...	AVERY DENNISON	NASSA GROUP
R.N. Spinning Mills Ltd. (Member of F.A.R Group)	GULSHAN SPINNING MILLS LTD.	dutch-bangla pack ltd	WORLD TRADE CENTER CHITTAGONG
GREEN LIFE Medical College Hospital	J.K. Group of Companies	ECOCOTEX	ACME
NEWAGE	unicorn TEXTILE MILLS LTD.	ECHO GROUP	ROYAL DENIM
GREEN DELTA CAPITAL	OTTO SPINNING LTD.	Shallina Group	CONCORD

How We Would Help You?

We are ready to provide you with the best water treatment chemical and equipment at the competitive price. Price is nothing to us, we care relationship with our clients. We can provide you with world-class equipment and services, whether you require an electro deionization system or a reverse osmosis system or another ultrapure water treatment technology or any water treatment chemical. We are dedicated and ready to serve you.

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