



# **New Stainless Steel Products for ABC Sector**



Ashok Leyland  
Building Chennai

SS Composite panel  
for cladding

# Advantages

## Rigid & Lightweight

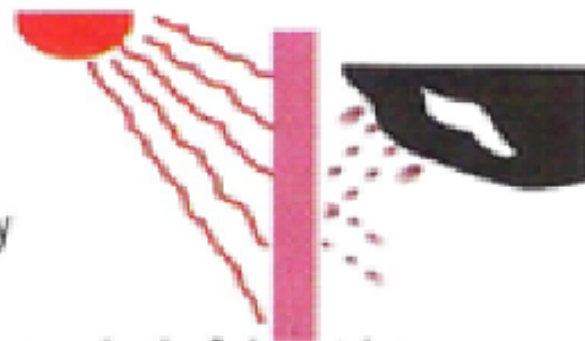
### SS COMPOSITE PANELS

feature excellent torsion and bending strength for external walls, and are more lightweight than solid aluminum. This makes it a highly cost-effective solution for construction budgets.

## Weather Durability & Corrosion Resistant

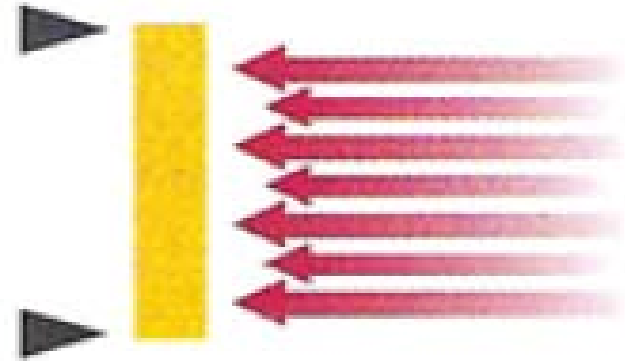
### SS IS UNCOATED/COATED WITH PVDF

It is able to withstand extreme weather conditions and minimizes the possibility of acid, alkali and salty spray corrosion, hence unaffected by temperature change and the long-term blast of ultra violet rays.



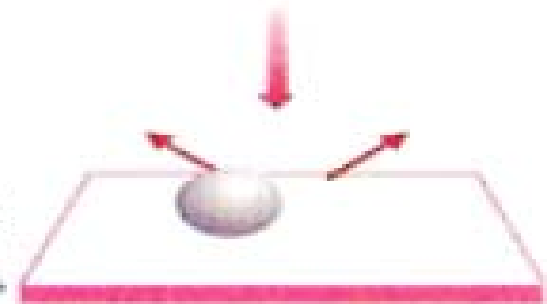
## Good Thermal Insulation

The PE or fire-rated core isolates the differential exterior temperature & moisture thus allowing to save on utility bills.



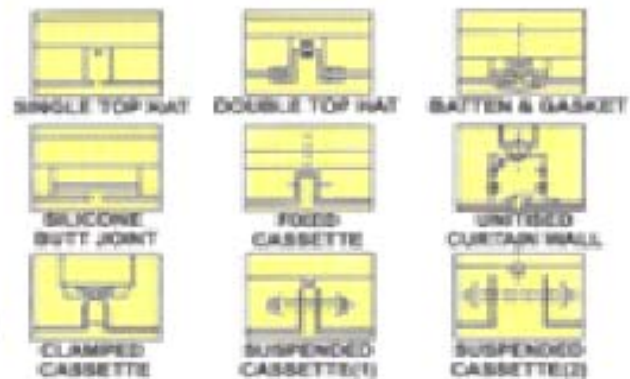
## Great Impact Resistant

The core comprises of viscoelastic high molecular resin, preventing cracking or breaking, thus allowing exceptionally high stiffness and is impact resistant.



## Economy & Ease of Installation

SS panels reduce the in place cost & installation time since the system does not require additional reinforcing structure & installation layer (to be specified by architects).



## Outstanding characteristics of fireproofing

SS panels fully meet the fireproofing requirement specified in the building code.



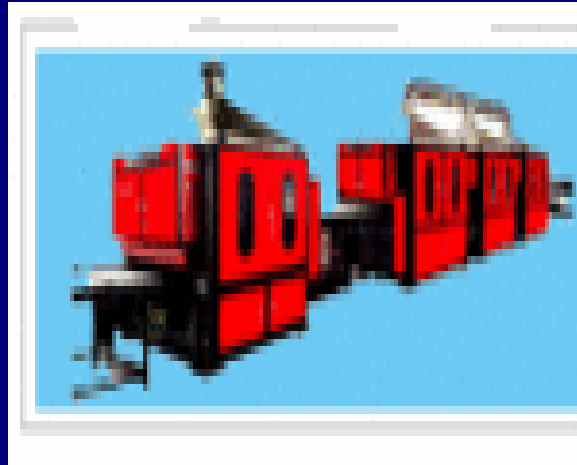
# Stainless Steel-Plastic Composite Panel



<b>Material</b>	<b>Coated on Face</b>	<b>Standard Size (Width x Length x Thickness) (mm)</b>	<b>Foil Thickness (mm)</b>	<b>Max Width (mm)</b>
Front : Stainless Steel Core: PE Back : Stainless Steel or Aluminum	PVDF	1220 x 2440 x 4	St.St.: 0.20 ~ 0.40 Alu. : 0.40 ~ 0.60	1350

# SS Composite Panels

<b>Panel thickness</b>	3mm, 4mm
<b>Core</b>	PE or FR Core
<b>Skin thickness</b>	0.3mm for High Mirror 0.3mm for Brushed Hairline
<b>Skin Finishes</b>	High Mirror, Brushed Hairline
<b>Alloy</b>	304
<b>Standard Panel size</b>	1200 mm x 2440 mm
<b>Brushed Hairline</b>	1200 mm x length upto 6000 mm
<b>High Mirror</b>	1200 mm x length upto 6000 mm
<b>Width</b>	$\pm 2.00$ mm
<b>Length</b>	$\pm 4.00$ mm
<b>Thickness</b>	$\pm 2.00$ mm
<b>Diagonal</b>	$\pm 5.00$ mm
<b>Bow</b>	0.5% of the length or width



## Anti Finger Print Machine Layout

- Anti-fingerprint technology is kind of nanometer film.
- Sweat or/and grease on fingers is not liable to be adhered to the surface



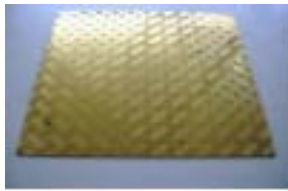
# Anti Finger Print Coated Hairline finish SS Sheet



# Anti Graffiti Coating & Graffiti removal systems for SS



# Titanium Coated SS Sheets

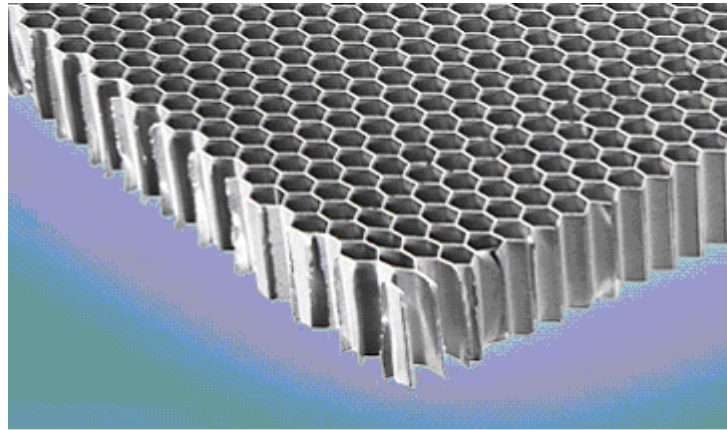


Aesthetics

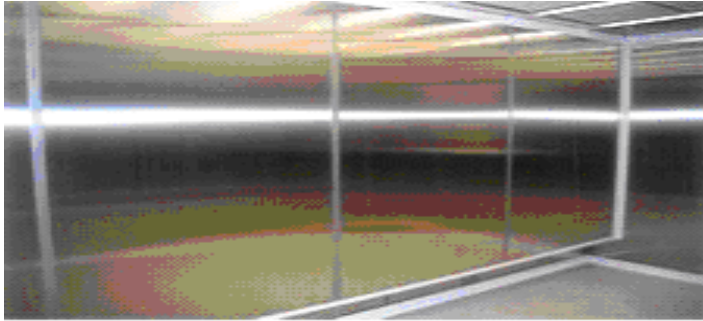
Higher Surface hardness

Better Corrosion resistance

# SS HoneyComb

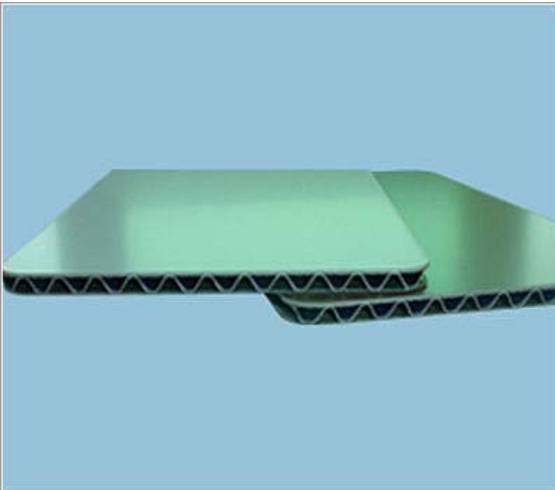


# Benefits of HoneyComb SS



Mirror like finish of SS panels enhances the wall section of a clear room. Honeycomb panels are fabricated into a pallet system offering a lightweight, high strength design.

# Stainless Steel Honeycomb Panel



Material	Coated on Face	Standard Size (Width x Length x Thickness) (mm)	Total Thickness (mm)	Layer Thickness (mm)
Front: SS or other metal Core: Corrugated AL/SS/Paper Back: AL/SS	PVDF/Mirror/Satin	1220 x 2440 x 5.00 1220 x 2440 x 10.00	5.00~10.00	St.St.: 0.20 ~ 0.40 Core: 0.30 Alu/SS.: 0.40 ~0.50

# Stainless Steel-Aluminum Full Metal Curtain Wall



Material	Coated on Face	Total Thickness (mm)	St.St. Thickness (mm)	Aluminum Thickness (mm)
Front: Stainless Steel Back: Aluminum	PVDF	2 2.5 3	0.30	1.70 ~ 2.70

# Embossed SS Sheets

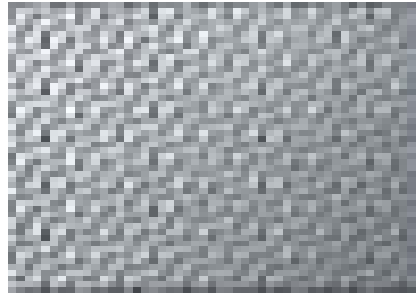
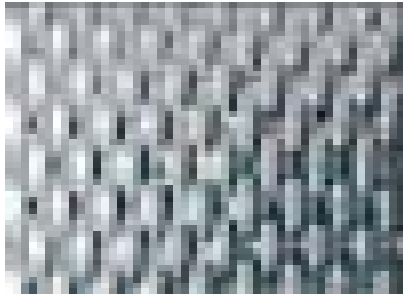


## Advantages

- Light weight
- Rigidised
- Different designs
- Scratch resistant
- Slip Resistant
- Cost Effective



# Rigidized Stainless Steel Finishes

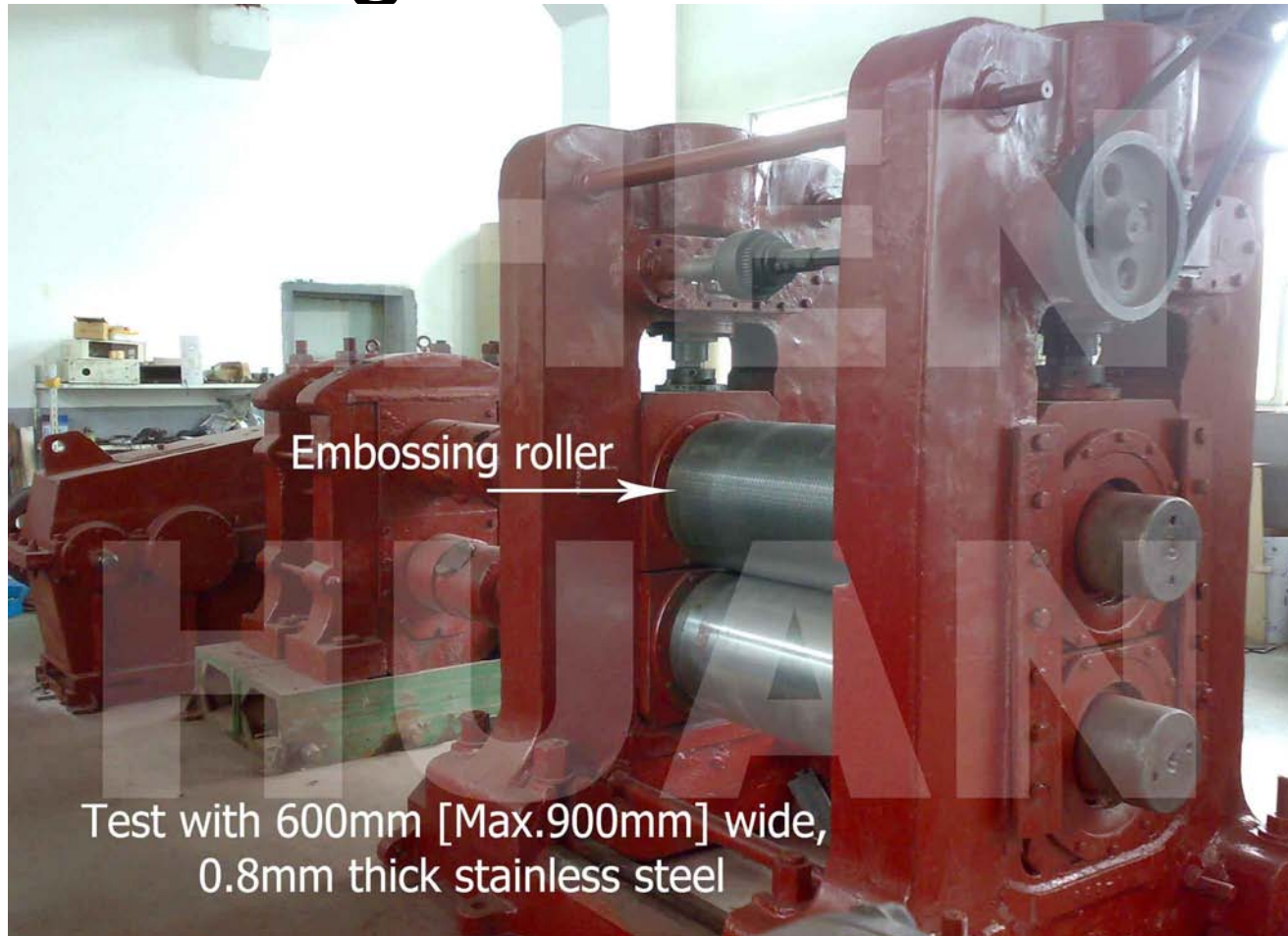


Higher strength to weight ratio

Camouflages finger prints, scratches

Wear resistant, slip free

# Embossing Machine



# 3 Ply/2 Ply Sheet making



3 Ply/2 Ply sheets offer light weight gross look enhanced thickness, easy fabricability and avoids oil canning effect



# VCM Sheets

VCM sheet is kind of PVC-film laminating metal sheet with good fire proofing, patterns, sophisticated appearance, eco-friendly.

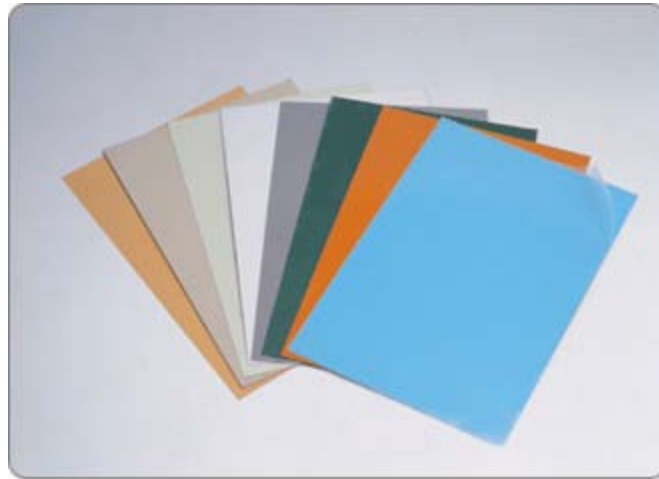
## **Types**

- Bright VCM
- Matt VCM

## **Applications**

- Outer case of refrigerator, washing machine, micro wave oven
- Construction material like partition, wall, ceiling, door, roof, office furniture

# Vinyl Chloride Coated Metal Sheets



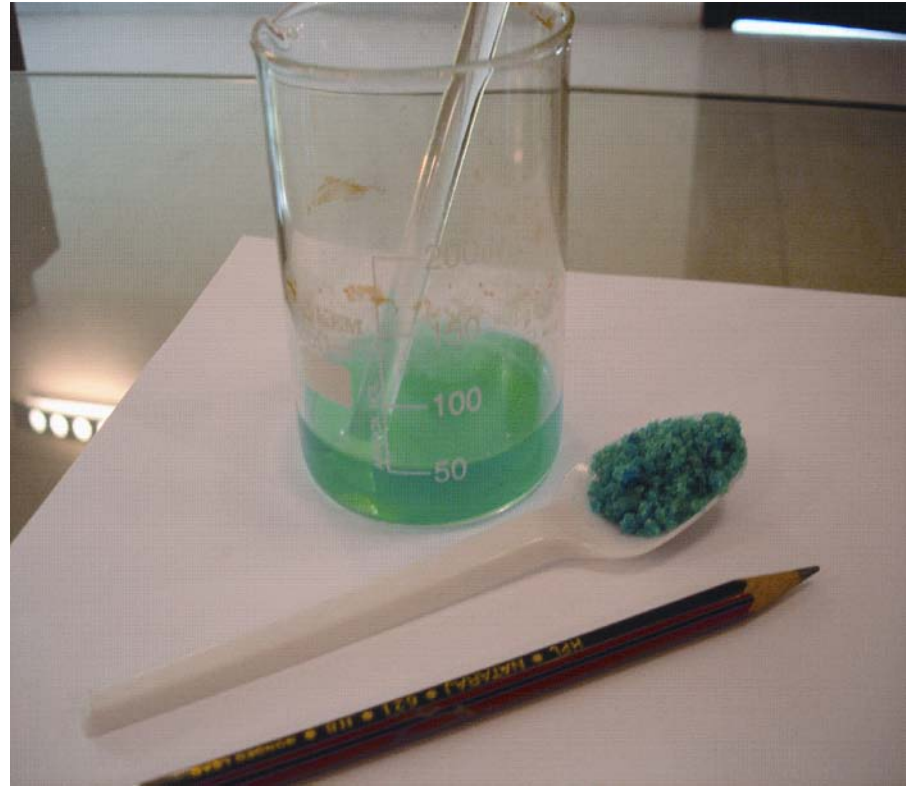
# Clinox



- Fast acting electro chemical reaction for pickling, passivation and polishing
- Good surface finish
- Eco friendly
- Minimal polluting waste

# Easy Identification of SS grades

## Identifying SS from Chrome Plated Steel



# Identifying 304 & 316 grade SS

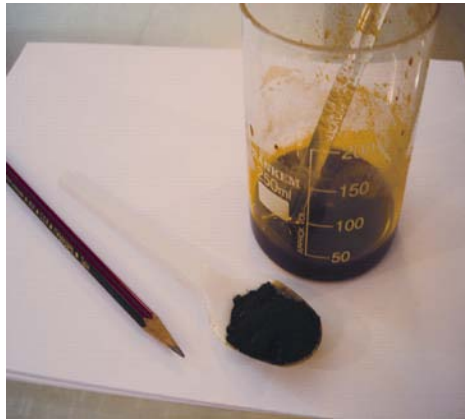




# Identifying 304 & 316



# Identifying different SS



**430 grade SS**



**304 Grade SS**



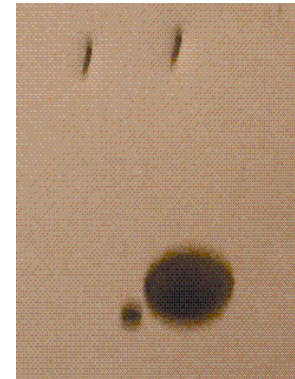
**4 % Nickel SS**



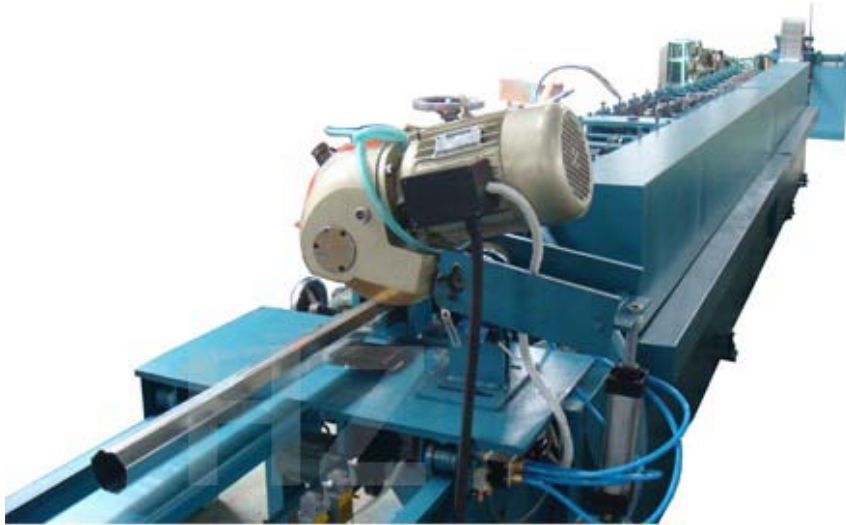
**2 % Nickel SS**



**1 % Nickel SS**



# WELDLESS PIPES



Thickness:0.6-1.2mm  
Forming Step:20  
Main motor:7.5KW



**Thank You**