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 bask 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Coated on Face</th>
<th>Standard Size (Width xLength x Thickness) (mm)</th>
<th>Foil Thickness (mm)</th>
<th>Max Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front : Stainless Steel Core: PE Back : Stainless Steel or Aluminum</td>
<td>PVDF</td>
<td>1220 x 2440 x 4</td>
<td>St.St.: 0.20 ~ 0.40 Alu.: 0.40 ~ 0.60</td>
<td>1350</td>
</tr>
</tbody>
</table>
## SS Composite Panels

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Panel thickness</strong></td>
<td>3mm, 4mm</td>
</tr>
<tr>
<td><strong>Core</strong></td>
<td>PE or FR Core</td>
</tr>
<tr>
<td><strong>Skin thickness</strong></td>
<td>0.3mm for High Mirror</td>
</tr>
<tr>
<td></td>
<td>0.3mm for Brushed Hairline</td>
</tr>
<tr>
<td><strong>Skin Finishes</strong></td>
<td>High Mirror, Brushed Hairline</td>
</tr>
<tr>
<td><strong>Alloy</strong></td>
<td>304</td>
</tr>
<tr>
<td><strong>Standard Panel size</strong></td>
<td>1200 mm x 2440 mm</td>
</tr>
<tr>
<td><strong>Brushed Hairline</strong></td>
<td>1200 mm x length upto 6000 mm</td>
</tr>
<tr>
<td><strong>High Mirror</strong></td>
<td>1200 mm x length upto 6000 mm</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>± 2.00 mm</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>± 4.00 mm</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>± 2.00 mm</td>
</tr>
<tr>
<td><strong>Diagonal</strong></td>
<td>± 5.00 mm</td>
</tr>
<tr>
<td><strong>Bow</strong></td>
<td>0.5% of the length or width</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Material</th>
<th>Coated on Face</th>
<th>Standard Size (Width x Length x Thickness) (mm)</th>
<th>Total Thickness (mm)</th>
<th>Layer Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front: SS or other metal</td>
<td>PVDF/Mirror/Satin</td>
<td>1220 x 2440 x 5.00 1220 x 2440 x 10.00</td>
<td>5.00~10.00</td>
<td>St.St.: 0.20 ~ 0.40  Core: 0.30  Alu/SS.: 0.40 ~0.50</td>
</tr>
<tr>
<td>Core: Corrugated AL/SS/Paper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back: AL/SS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Stainless Steel-Aluminum Full Metal Curtain Wall

<table>
<thead>
<tr>
<th>Material</th>
<th>Coated on Face</th>
<th>Total Thickness (mm)</th>
<th>St.St. Thickness (mm)</th>
<th>Aluminum Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front: Stainless Steel Back: Aluminum</td>
<td>PVDF</td>
<td>2</td>
<td>0.30</td>
<td>1.70 ~ 2.70</td>
</tr>
<tr>
<td></td>
<td>2.5, 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

Test with 600mm [Max. 900mm] wide, 0.8mm thick stainless steel
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