VERSATILE SURFACES

To make exteriors speak for themselves, it is necessary for them to be at peace with technology and creative analog.

WHY AIRO XTERIOR?

Airo Xterior is a modern exterior grade panel, which protects structure from weather in every season. Be it the severe heat of summer or the winter cold, these panels are extremely resistant to Indian weather. Each panel is covered with UV protective film on both sides to minimize the harmful effect of UV rays and sun rays.

The installation of these panels can be done in multiple ways, but in each way, the panels are installed at a distance from the wall. As the panels and wall are not in contact, the panels stop the heat and cold from the atmosphere to reach the structure.
Airo Xienor compact laminate is an engineered exterior facade panel with a decorative surface on both sides. These extremely strong panels are manufactured by Airos, with the use of thermosetting resins which are joined with cellulose fibers for increasing the durability.

A layer of acrylic provides better UV protection and the panels are tested for severe use to ensure they are in accordance with EN 438. These tests make them ideal for application in ventilated facades and other external building elements.

**COMPOSITION**

**Sizes**
- 1200x2440 mm
- 1200x3600 mm
- *1000x2000 mm*
  *Available in selected Colours*

**Thickness**
- 6, 9 & 11mm
  *More thicknesses available on request*
## ARRAY OF APPLICATIONS

Airo Xterior makes exterior remarkable with ease. Airo Xterior not only beautifies but also exudes warmth of your place.

- Awning
- Balcony cladding
- Canopy
- Duct covering
- Fence, rail & screen
- Gate Clading
- Highlighter
- Kiosk
- Louvre
- Parapet
- Pedestrian shelter
- Prefab hut
- Roof cladding
- Signage
- Sliding shutter
- Sofits
- Ventilated façade

### Point of Comparison

<table>
<thead>
<tr>
<th></th>
<th>ACPs</th>
<th>Airo Xterior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Decor</strong></td>
<td>Defined 30 decors</td>
<td>Defined over 300 decors</td>
</tr>
<tr>
<td><strong>Range</strong></td>
<td>Flat colors and low designs</td>
<td>Not only plain colours are available, a very wide colour range. Also available in wood grain decors, stone finishes.</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>One sided and lends to shade variations is a possibility</td>
<td>Both side design paper minimizes wastage</td>
</tr>
<tr>
<td><strong>Scratch resistance</strong></td>
<td>Prone to scratches</td>
<td>Not only scratch resistant, but nearly scratch proof</td>
</tr>
<tr>
<td><strong>Impact Resistance</strong></td>
<td>Takes dents and easily visible</td>
<td>Double hardened and will lose no dents and can be used for high-rise buildings as well.</td>
</tr>
<tr>
<td><strong>Maintenance</strong></td>
<td>Can be cleaned</td>
<td>Comparably easier to clean because of the surface finish</td>
</tr>
<tr>
<td><strong>Solvent Resistance</strong></td>
<td>Nsects to certain acids / solvents</td>
<td>Special grade can be used as laboratory furniture too</td>
</tr>
<tr>
<td><strong>Raw Material</strong></td>
<td>Aluminium foil with polyurethane. Most of the times recycled plastic is used</td>
<td>Use of six protection films, decorative paper on top and Kraft paper at the bottom, the core is impregnated with different synthetic resins.</td>
</tr>
<tr>
<td><strong>Insulation</strong></td>
<td>Aluminium is not a conducting material and dross only because of Polyurethane film used</td>
<td>Very good insulating material</td>
</tr>
<tr>
<td><strong>Structure</strong></td>
<td>Installed on lighter substrates</td>
<td>Installed on heavier substrates hence more durable and stable</td>
</tr>
<tr>
<td><strong>UV</strong></td>
<td>Being metallic, it tends to lose shine</td>
<td>Optimal light fixture</td>
</tr>
<tr>
<td><strong>Weather resistant</strong></td>
<td>Since foil is on the two sides and Polyurethane films used as sandwich, if not properly bonded, it may get loose</td>
<td>Material is compressed into one layer and it is extremely weather resistant</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Environment Friendly as it consists of natural fibers and synthetic resins that do not contain organic solvents. The materials are used are from recyclable sources. They contain either biodegradable or non-wood preservatives that do not have any adverse effect on the environment, even with thermal disposal of waste. No environmental hazards such as hydrochloric acid, organic chloride compounds or dyes can arise.</td>
<td></td>
</tr>
<tr>
<td><strong>Rendering</strong></td>
<td>Needs dents and light impact</td>
<td>Doesn’t bond at all</td>
</tr>
<tr>
<td><strong>Applications</strong></td>
<td>Facades largely</td>
<td>Façades, claddings, terrace claddings, Porticos, Railings, Verandas, 3DD claddings, Balconies, Outdoor furniture, flags, balconies, Porchway balconies, Spa, facades, Sun protection, Awnings, Business entry portals, functional constructions, etc.</td>
</tr>
</tbody>
</table>

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FEATURES & BENEFITS

- Easy to Install
- Easy to Clean
- UV Resistance
- Waterproof Against Rain
- Insures Sound Insulation
- Optimal Light Fastness

- Fire Resistance
- Scratch Resistant
- Double Hardened
- Thermal Heat & Cold Insulation
- Solvent Resistant
- Impact Resistant

- Decorative
- High Weather Resistance
- Optimal Light Fastness
- Scratch Resistance
- Solvent Resistant
- Self Supporting
- Impact Resistant
- Heat Resistant
- Fire Resistant
- Easy to clean and maintain

- Overall lightweight substructure and façade
- Sustainability
- Quick and easy to assemble
- Increased sound-proofing function (up to 15 dB)
- Decrease air conditioning cost
- Provide wind protection & heat insulation against atmospheric precipitation

MESMERIZING CREATIONS

Crafted exclusively for enhancing the exterior of your space with contemporary magnificence and style.
Choose from a collection of wood grain surfaces to give that much needed natural touch to your beloved spaces.

908 SF NEW | CHDCO PLANK

6-MM EXTERIOR COMPACT
Follow your heart and side with the elegance of these timeless creations crafted to make your exteriors beautiful.

EX 907 SE | MAHOGANY PLANK
Take a regal stance with the creativity of these impressive exterior panels that mimic stone surfaces immaculately.
RAVISHING SIGHTS

Tell a timeless tale of panache and flair that complements your character in the most profound manner with these surfaces.
STONE

TEMPTING DESIGNS

Airo Xteror lets you make a splendid statement with your exteriors, which enchants each and every one of its admirers.

EX 902 SF | DARK GRANITA

EX 903 SF | LIGHT GRANITA
WOODGRAIN

GRACEFUL WONDERS

Let your exteriors create an aura of magnetic style that takes you beyond the ordinary warm of grandeur.

EX 924 SF | NATURA TIMBER

EX 4945 SF | CLASSIC TIMBER

EX 4948 SF | ROYAL TIMBER
LUXURIOUS CREATIONS

Check out these fantastic and exotic surfaces by Airo Exterior, the ideal choice for making your exterior glisten with sparkle.
WOODGRAIN

ECLECTIC DESIGNS
Take a page out from nature’s handbook of beautiful impressions and give your exteriors a splendid makeover.

EX 835 SF | GROUNDWOOD

EX 846 SF | AURURNWOOD

EX 578 SF | HAZELWOOD
Weather Resistance: Airo Xterior is highly weather resistant as there is no effect on the surface or the core of the Airo Xterior material when exposed to extreme weather conditions. It stands firm in high/low temperatures or high/low humidity levels.

UV Resistance: A special UV protected treatment makes Airo Xterior UV resistant, with its special effect, the surface doesn’t lose its color when exposed to direct sunlight for long periods.

Climatic Shock Resistance: Airo Xterior is resistant to sudden change in temperature and humidity of the atmosphere, and maintains its physical and mechanical properties remaining firm for long.

Corrosion Free: Airo Xterior is absolutely corrosion free unlike other external covering products.

Graffiti Resistance: Airo Xterior is graffiti resistant, any writing marks made on the surface can be easily removed with diluted solvents.
Moisture Resistance: Airo Xterior is highly moisture resistant hence ideal for use in all types of exterior cladding on buildings such as residential, workplaces, business centres, public buildings, airports and hospitals.

Mechanical Properties: Airo Xterior is impact resistant, flexural strength, modulus of elasticity is very good because of the use of specially modified phenolic resin.

Termite Resistance: Airo Xterior is completely resistant to termite and fungal attack.

Abrasion Resistance: Airo Xterior has superior abrasion and wear resistance, hence life of Airo Xterior is far more than most of the other wall cladding materials.

Airo Xterior is also available in flame retardant grade.

EASE OF USE
Install. Less time and effort is required for installation. 
Maintain: Can be cleaned using a damp cloth or sponge and a mild soap or detergent. 
Replace: Reproduction of same colour of Airo Xterior is possible; so replacement with matching colour is possible. 
Renovation: Can be installed on existing wall surface.

TECHNICAL

WEATHER RESISTANCE

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>TEST METHODS</th>
<th>ATTACHED PROPERTY</th>
<th>UNIT</th>
<th>Airo Xterior</th>
<th>Standard Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light fixation</td>
<td>EN 438: D-07</td>
<td>Contact</td>
<td>Grade Scale</td>
<td>Max. Level 4</td>
<td>&gt; level 6</td>
<td>EN 438: D-07</td>
</tr>
<tr>
<td>Vertical Weathering</td>
<td>EN 438: D-09</td>
<td>Contact</td>
<td>Grade Scale</td>
<td>Max. Level 4</td>
<td>&gt; level 4</td>
<td>EN 438: D-09</td>
</tr>
<tr>
<td>Lab Light Erosion</td>
<td>EN 438: F-08</td>
<td>Contact</td>
<td>Grade Scale</td>
<td>No requirement</td>
<td>No requirement</td>
<td>EN 438: F-08</td>
</tr>
<tr>
<td>Dimensional Stability at Elevated Temperature</td>
<td>EN 438: G-16</td>
<td>Dimensional</td>
<td>Change</td>
<td>± 0.1 %</td>
<td>± 0.3 %</td>
<td>EN 438: G-16</td>
</tr>
<tr>
<td>Resistance to Climate Exposure</td>
<td>EN 438: H-07</td>
<td>Appearance</td>
<td>Grade Scale</td>
<td>Max. Level 6</td>
<td>Max. Level 6</td>
<td>EN 438: H-07</td>
</tr>
<tr>
<td>Fire Classification</td>
<td>EN 13501-5</td>
<td>Fire Classification</td>
<td>Index</td>
<td>Total</td>
<td>0.92</td>
<td>EN 13501-5</td>
</tr>
</tbody>
</table>
MATERIAL HANDLING NORMS

Compact laminate boards have very high density, hence even the slightest difference of moisture absorption between two sides will result in warpage immediately. This is why it is common to find warpage issues in laminate boards stored at the top or bottom.

Through proper preservation in storage, the problem of warpage can be avoided to a greater extent.

The major guidelines for storage & handling of Airo Xterior are as under:

**STACKING OF AIRO XTERIOR**

- While stacking Airo Xterior, as both surfaces of all laminates except the top and the bottom one will be covered, we have to place one 2mm or 3mm laminate at the bottom and one same laminate on the top with some load on the top cover.
- The stacking of Airo Xterior in supply of up to 15 boards will be done with one sheet of thinner laminates tape such as the bottom and the top.
- The top cover in all cases should be placed with some additional weight at appropriate places and in uniform manner.

**AIRO XTERIOR SHOULD BE ABSOLUTELY PARALLEL TO EACH OTHER IN THE RACK**

The storing of Airo Xterior boards should be absolutely parallel to each other, meaning no sides of the laminate should be found excess from any side.

**USE ONE STACK FOR SINGLE SIZES PANELS.**

Some size Airo Xterior should be stacked in one stack so that excess or shortages will not be visible from any side in one stack.
WHEN THE STORAGE AREA IS LESS

In case where the space provided for storage is less, the stacking should be done in such a manner that the larger pieces are at the bottom and the smaller pieces are at the top.

COVER ENTIRE MATERIAL FROM PLASTIC TARPALIN COVER

In all cases, a Plastic Tarpaulin cover is to be used for covering the entire material placed at the site / godown.

IN ABSENCE OF A RAISED PLATFORM BOTTOM COVER LAMINATE MUST BE COVERED WITH PLASTIC TARPALIN SHEET

In case where the raised compact platform is not provided / used, it is mandatory that the bottom laminate cover is stacked on a plastic tarpaulin sheet.

AVOID EXTENSIVE EXPOSURE TO SUNLIGHT, RAIN & HIGH HUMIDITY.

Stack should not be exposed to direct sunlight or very high humidity or rain for long time.

AVOID STORAGE IN AREAS WITH CHANCES OF STAGNANT WATER ACCUMULATION

Always avoid stacking of Airo Xterior in areas with chances of stagnant water accumulation. Stock of Airo Xterior should not be kept on wet / unprepared floor under any circumstances even for short periods.

AIRO XTERIOR STACKING PERIOD IN HIGH HUMIDITY AREAS

In high humidity areas (especially the coastal regions), the Airo Xterior stacking period should not exceed 30 days. All efforts should be made to ensure that all the Airo Xterior can be used for a long period of time.

DRILLING AND SCREW FIXING INSTRUCTIONS

Inserting the screw directly in the panels is prohibited, instead a hole should be made with a drill and then screw should be inserted (ensure that the diameter of the hole is 0.5mm less than the diameter of the screw.)
MATERIAL HANDLING DURING TRANSPORTATION

AIRO XTERIOR SHOULD NOT BE PUSHED OR PULLED

During loading/unloading no panels of Airo Xterior should be pushed or pulled out.

AIRO XTERIOR SHOULD BE LIFTED PARALLEL FROM ALL CORNERS

AIRO XTERIOR panels should be kept always horizontally inside the transport vehicle and during loading/handling.

MATERIAL HANDLING NORMS

- Storage and handling: All Airo Xterior panel is a heavy material. Ensure proper support to the complete sheet area. Panels should be stored and made sure to support their load without bending or handling.
- When loading and unloading, do not position in planks more than one another. DHP close to be hand or suction device. Make stacked panels always against the floor. The surface of each board must be free from dust, grit or foreign body which may damage the decorative face.
- Airo, Xterior planks carry a certain amount of internal movement when subjected to handling. This movement is minimized or balanced by the following steps. Where panels are scored on the back, creases should be stretched carefully to ensure that creases and score marks are as smooth as those in the face. For instance, the back and face should be in the same register or face. Creases or score marks may be used to create decorative effects.
- Dimensional movement across the width of the panel is twice as good at 90° as along the length, so cutting panels with the long dimension running across the width of the panel greatly increases the risk of bowing. Never cut the panels with the long edge parallel to the length of the panel.
- Where panels are scored on the back, creases should be stretched carefully to ensure that creases and score marks are as smooth as those in the face. For instance, the back and face should be in the same register or face. Creases or score marks may be used to create decorative effects.
- Making tight corners sufficiently tight to remove movement: Avoid Airo Xterior Panels enclosed in a frame where normal movement conditions (10° C - 37° degrees C and 50% +/- 5 Relative Humidity) are maintained. The base board must be wide enough to allow the sides within the frame to lay flat in the panel and be joined to the side of the panel by a continuous or a continuous piece of wood or a continuous piece of metal or a continuous piece of metal. If the frame is too tight, the panel will not lay flat in the panel and be joined to the side of the panel by a continuous or a continuous piece of wood or a continuous piece of metal.
- Airo Xterior Panels should be packed and loaded in a way that ensures the least movement and handling. If this is not done, the panels can be damaged. The panels should be packed and loaded in a way that ensures the least movement and handling. If this is not done, the panels can be damaged.
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DURING LOADING: UNLOADING AIRO XTERIOR PANS SHOULD NOT BE PUSHED OR PULLED OUT.

During loading/unloading AIRO Xterior panels should not be pushed or pulled out.
FAQ & CONDITIONS:

1. What is Airo Xterior?
Airo Xterior is high pressure laminates, which are highly durable and weather-resistant external wall covering panels. It is an engineered exterior façade panel, suitable for installation at multiple locations and structures. Airo Xterior is fire-proof, water-resistant, heat resistant and comes with no maintenance requirement.

2. What kind of Airo Xterior panels are available?
Airo Xterior has been developed to boost the exterior aesthetics of structures, and so they are offered in a number of colors and designs. Currently, Airo Xterior is available in 3 different sizes such as 1220x2440 mm, 1200x3050 mm and 1300x3050 mm. Apart from that, the thicknesses available are 6 mm, 8 mm and 10 mm. Other thicknesses can be requested as per requirement.

3. What are Airo Xterior Panels made of?
Airo Xterior is made of multiple layers of UV Protection Film, Decorative paper and Kraft paper. The layers of paper are superimposed, impregnated with thermosetting resins and permanently bonded together by simultaneously applying heat and pressure.

4. How should Airo Xterior Panels be stored?
To avoid permanent deformation of the panels, storing instructions should be followed vigilantly. It is recommended that Airo Xterior should always be kept in their original packaging. Panels must be stacked horizontally on flat, stable supports and base panels. Protective cover panels must always be left on the stack.

5. Does Airo Xterior require any maintenance or service
No, Airo Xterior is a zero maintenance product, which does not require servicing. Even after cutting, edges do not require any post-processing.

6. Can Airo Xterior be installed without rear ventilation?
The installation of Airo Xterior without rear ventilation is not appropriate and we do not recommend it. A certain gap is left between the wall and the Airo Xterior panels, which helps the airflow from top to bottom. This airflow keeps the wall cooler in comparison to the ones not covered with the panels. This helps in keeping the inner temperature cooler, and it also saves energy.

7. What are the different ways that Airo Xterior can be installed on a structure?
There are 3 three different ways by which Airo Xterior can be installed to your walls. It is possible to install Airo Xterior with rivets, screws & a wooden structure, Adhesive systems, and an aluminum Z-clip fixing.

8. Is Airo Xterior fire-proof?
Yes, Airo Xterior is highly fire-retardant and can withstand extreme flames and heat.

9. Is Airo Xterior environmentally sustainable?
Yes, Airo Xterior is environmentally sustainable. It is a green building material as it saves energy and its production does not leave a huge carbon footprint. Green building materials are especially best suited for regions that experience extreme temperature changes during a year.