



ALUCOBOND®

INTRODUCTION TO SOLAR SHADING SOLUTIONS FROM THE MAKERS OF ALUCOBOND®

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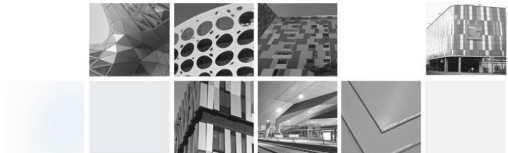


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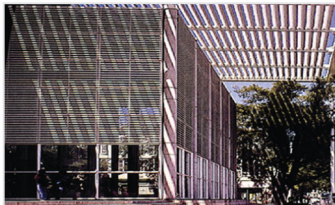
- What is Solar Shading
- Why use Solar Shading
- Understanding Exterior and Interior Solar Shading Solutions
- Factors that determine the use of right Solar Shading Solutions
- ALUCOBOND® Solar Shading Products
 - Standard Products
 - Customized Solution
- ALUCOBOND® Value Added Service on Solar Shading
 - How does ALUCOBOND® help you in choosing the right product and system
- Take Away

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WHAT IS SOLAR SHADING?



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WHY SOLAR SHADING?

- Functionality
 - Provides opportunity to regulate the sunlight at any time of the day.
 - Use of controlled natural light renders indirect health benefits to the inhabitants of the building.
 - Regulates the use of artificial lighting and air conditioning hence saves cost
- Aesthetics
 - Can provide an excellent and unique exterior finish to any building without restricting the view from inside.
- Energy Conservation
 - Contribution to Environment/ Sustainability
 - Green (LEED points)

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HOW DOES IT WORK?

Inside the building



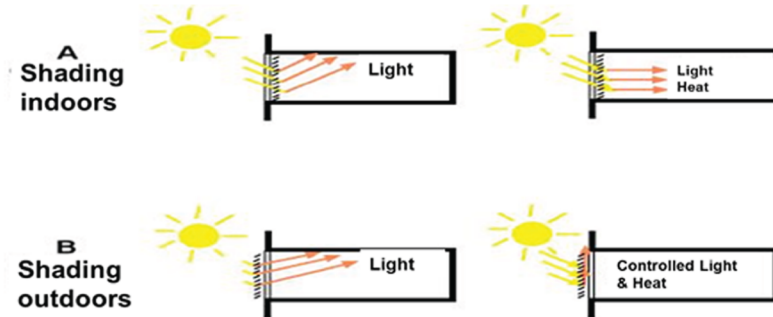
Outside the building





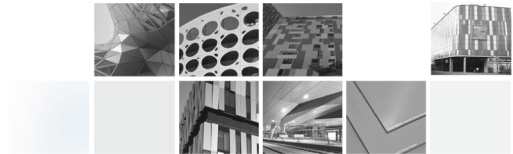
WHY EXTERIOR SOLAR SHADERS ARE BETTER

- When the shaders are used inside the building it sure allows for the light to pass through but controlling it is difficult and it lets heat pass through.
- When shaders are used outside, its easier to control the light transmission and at the same time keeps the heat outside hence less consumption of energy



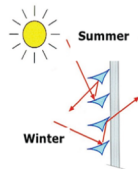
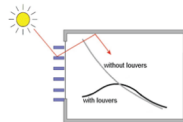
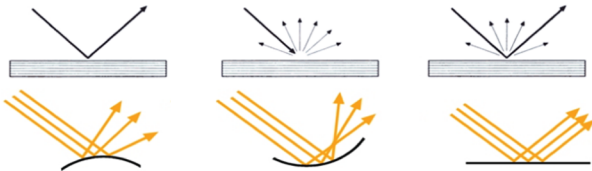
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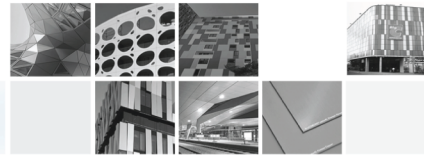
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IDEAL SOLAR SHADING SOLUTION

- Ability to control light's direction at any given time of the day (maximize sunlight)
- Should be able to control heat transmission
- Provide for proper Ventilation
- Should provide for an unhindered view from inside

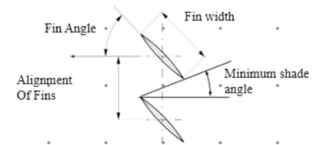
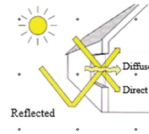




OPTIMIZING THE SUN LIGHT USING SOLAR SHADERS

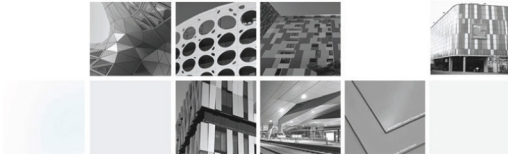
Based on the location of the Building and its interface with Sun's path :

- Can be done choosing the right fin size, angle of its fixture
- Can be done by choosing fixed or adjustable fins
- Can be done by right alignment and spacing of the fins
- Choosing the right product
- Choosing the right finish (based on SRI values)



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ALUCOBOND® SOLAR SHADING PRODUCTS



Alufoil



Alubrize



Aluscreen



Engineering Shutters

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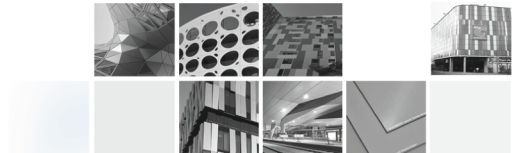
ALUFOIL

- Material: Aluminum extrusions
- Width of each fin:
 - Standard: 200mm – 450mm
- Surface finish: Anodized/Powder coated
- Color: Limited color options
- Fixing system: Fixed system or Adjustable (upto 150°)
- Fin orientation: Horizontal / Vertical
- Advantage: Widely available standard profile section options. Any extrusion company can manufacture.
- Disadvantage: Big deadweight and high requirement to frame and limitation on colors



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ALUBRISE

- Material: Aluminium Extrusion or Coated Aluminium skin
- Width of each fin:
 - Single- 100mm, 150mm, 200mm,
 - Double- 300mm, 400mm
- Surface finish: PVDF/Powder coated/ Mill finished
- Color: ALUCOBOND® standard colors or Custom colors
- Fixing system: Fixed and Adjustable system
- Fin orientation: Horizontal / Vertical
- Advantage: Light weight and Variety of finishes available
- Disadvantage: Low on strength

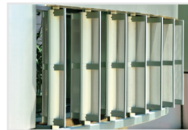
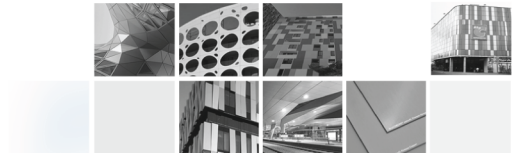


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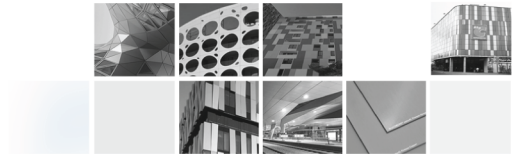
ALUSCREEN (PERFORATED FINS)

- Material: Perforated Aluminium skin
- Width of each fin: From 200mm to 450mm, (or custom sizes)
- Surface finish: PVDF/ FEVE(Spectra) / Anodized / Natural
- Color: ALUCOBOND® colors or Customized colors
- Fixing system: Fixed and Adjustable system
- Fin orientation: Horizontal / Vertical
- Advantage: High on aesthetics, Perforation, Variety of finishes and pattern of holes. Light weight



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ENGINEERING SHUTTERS (3AC CUSTOMIZED SOLUTIONS)

- Materials: Coated Aluminium skins or ACM
- Surface finish : PVDF/ FEVE(Spectra) / Anodized / Natural
- Color: ALUCOBOND® colors or Customized colors
- Fixing system : Fixed and Adjustable system
- Fin orientation: Horizontal / Vertical
- Advantages: Possible with much wider fins than any of the standard products available with all possible color finishes



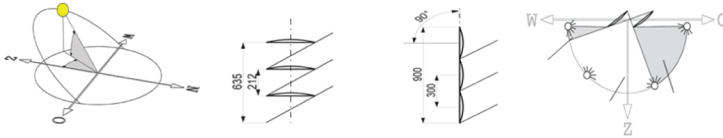
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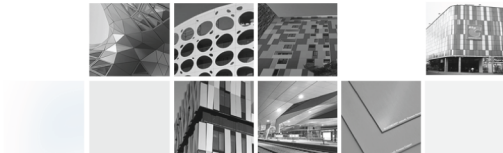
ALUCOBOND® SOLAR SHADING SOLUTIONS - ALIGNING THE VARIABLES!

- Designing and Optimization based on the location, design, height of the building and what the client wants.
- Studying the Sun path and its interface vis a vis the building façade (Altitude and Azimuth path) using the Sun Tool
- Recommending Vertical or Horizontal fins based on the Sun path
- Recommending the size of the fins to optimize sun light and withstand wind loads at the location
- Recommending Fixed or Adjustable Fins for optimizing sun light
- Recommending the right product for the right application.
- Recommending and providing the right Fixing mechanism and required extrusions and other components (Ready to Install solution)



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ADVANTAGES OF ALUCOBOND® SOLAR SHADING SOLUTIONS

- Ready to Install solution
- Provides benefits of functionality with aesthetics
- Choice between standard products or customized solution
- High Fire Rating (all components of aluminium only)
- Available in wide range of colors and sizes
- Adjustable systems – Manual or Motorized as required
- Can be used for horizontal or vertical applications
- Light weight yet has strength
- All components are manufactured from high quality materials to have a long service life in different climatic conditions
- Requires little or no maintenance



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ALUCOBOND® SOLAR SHADING PRODUCT/SOLUTIONS

Be it a new project or a refurbished one, ALUCOBOND® Solar Shading products and solutions gives your facade a contemporary and differentiated look!



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THANK YOU!!