

brilliant buildings

Engineered Assemblies Inc

Is Proud to Introduce

IMETCO

ROLL FORMED ALUMINUM
PRODUCTS



Engineered Assemblies Inc

IMETCO: THE ALUMINUM ADVANTAGE

- While steel remains the most common choice for metal wall and roof cladding systems, aluminum offers architects exceptional benefits and advantages in their eternal pursuit of beauty, performance, innovation and advancement in architectural design
- Owners benefit from long lasting, maintenance free, watertight warranted design and installation
- IMETCO and aluminum – the winning combination



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- Discovered in 1825 by HC Oersted Aluminum is the third most abundant element on Earth (at 8% of the planets crust).
- In it's pure form it is a soft, lightweight, odorless, non-magnetic, non-sparking silver-white coloured metal.
- Not a free occurring metal in nature it is bound up in clay, minerals and rock. Bauxite contains large quantities and is extensively mine around the planet.
- When exposed to air aluminum rapidly develops an invisible oxide layer that is corrosion resistant. This oxide layer is thickened in the process of "Anodizing".



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- Applications for the use of Aluminum range from common household products like cookware, deodorants and even medicines like aspirin.
- Industrial uses include all manner of extrusions, aircraft and marine vessel construction as well as extensive applications in the construction industry for window extrusions, structural components and, of most interest to us, in wall and roof cladding applications.
- Some of the properties that make Aluminum a superior metal for cladding applications include...



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IMETCO ALUMINUM

- Durability
 - Excellent Corrosion Resistance
 - Immune to Harmful UV Rays.
- High Strength-to-Weight Ratio
 - Approximately Half the Weight of Steel
 - Minimizes Dead-Load on Support Structure
 - Easier to Transport, Handle on Site



ENGINEERED
ASSEMBLIES

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IMETCO ALUMINUM

- High Reflectivity
 - Less Heat Transfer, Reduces Energy Costs
- Cryogenically Strong
 - Does Not Become Brittle at Low Temperatures
- Fire Safety
 - Non-Combustible, Releases NO Harmful Gases
 - Melts at 650 Degrees C, Allowing Heat/Smoke to Escape, Minimizing Injury and Damage



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IMETCO ALUMINUM

- Coatings and Finishes
 - Available Finishes include Mill Finish, Embossing, Anodizing and Hundreds of Paint Colours.
- Lightning Strike Properties and Protection
- Virtually Maintenance Free (Excepting Aesthetics)



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IMETCO ALUMINUM

ENVIRONMENTAL BENEFITS

- Long Service Life Reduces Replacement Occurrences
- 100% Recyclable (Unlimited Repetitions Without Loss of Any Properties)
- Recycled Aluminum Produced at 5% of the Cost of It's Original Production
- One Ton of Recycled Aluminum Saves 4 Tons of Bauxite.



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IMETCO ALUMINUM

- Prime Quality Alloy 3003 or 3105 H14
- .032", .040", and .050" Aluminum is Standard Material
- Bare or Standard 2 Coat (1 mil) Kynar Paint Coating
- Other Kynar Coatings or Stucco Embossing by Special Order



brilliant builds

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THE IMETCO ADVANTAGE

- 10-, 15-, 20- and 25-year watertight warranties available
- Superior engineering and design
- Panel lengths of roll-formed up to 200 lineal feet
- Roll-form any of IMETCO metal in any of IMETCO profile



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IMETCO CARBON STEEL:

- Most Common for Standing Seam Roofs
- Excellent Structural Value
- 22 and 24 Gauge Most Common Thickness for High Performance Standing Seam Roofs
- 20 Gauge Rarely Specified
- 24, 26, 28, 30 Gauge Commonly Used for Residential and Commodity Products
- Requires Metallic Coating for Corrosion Protection



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TYPES OF CORROSION:

- Oxygen: Reaction Between Metal and Atmospheric Oxygen - The combination of These Elements Results in Corrosion (Rust, Pitting, Patina)
- Acids: Forms of Hydrogen that Have the ability to Destroy Metal (i.e. Acid Rain)
- Galvanic: Occurs When an Electrical Current is Passed Between Different Metals through an electrolytic media.

