



**C.T.W. Engineered
Glazing Systems**

HYBRID PRODUCT SUSTAINABILITY

C.T.W. Engineered Glazing Systems is committed to delivering sustainable systems for use with today's modern methods of construction. As a responsible business, all aspects of production from material sourcing and handling to product maintenance are at the forefront of the C.T.W. HYBRID technology.

SOURCING

The prime materials used in C.T.W. HYBRID products are engineered wood and extruded aluminum profiles.

Wood is one of the few sustainable materials available for fenestration products. All our engineered timber is ethically sourced from forests that incorporate a program developed by professional foresters, conservationists and scientists, among others that combine the perpetual growing and harvesting of trees with the long term protection of wildlife. The engineered wood used is sourced from suppliers that incorporate one or more of the following programs:

SFI Accreditation (The Sustainable Forest Initiative)

FSC CoC (Forest Stewardship Council, Chain of Custody Certification)

PEFC accredited (Program for the Endorsement of Forest Certification)

The engineered timber laminated beams used in our C.T.W. HYBRID series provides consistent structural values and utilizes over 95% of the logs raw material. The parts of the logs that are not utilized become material for the production of plywood, lumber, paper, particle board, MDF (Medium Density Fiberboard) and bio fuel for home and industrial use.

Aluminum profiles are extruded from aluminum billet that have recycled aluminum content to the highest level possible. Producing recycled aluminum saves 95% of the original energy used to produce new aluminum and 70% of all the aluminum in use today has been recycled. It is estimated that the current

reserves of Bauxite, from which aluminum is extracted, will last at least 300 years. All extruded aluminum is supplied from local extruder's within 500 miles of the project location, thereby keeping transport emissions to a minimum.

THE BENEFITS OF ENGINEERED TIMBER:

- Wood is 100% recyclable.
- Timber uses far less energy to produce in the process produces the lowest level of greenhouse gas emissions, air pollution, water pollution and solid waste when compared to the production of aluminum or steel.
- Timber uses the lowest level of ecological resources.
- During its growth, wood absorbs Co2 from the environment, which is a great benefit to our air quality.
- The life span of wood is over 30 years with the current high performance applied finishes.
- Timber provides greater U-values, due to its inherent properties, when compared to aluminum or steel, resulting in energy savings for the building.

THE BENEFITS OF ALUMINUM:

- Aluminum is a strong yet lightweight material which is resistant to corrosion in its natural state.
- To enhance its natural aesthetics, aluminum can be powder coated, anodized or painted in a wide range of colors.
- Aluminum is non-toxic, does not age, is impervious to UV light and virtually 100% recyclable, not once, but many times over.