



ALC 4000 SYSTEM



Studio Eiger Ltd. / Mordagan Production Ltd.

SIMPLY PROFESSIONAL



Aluminum Construction

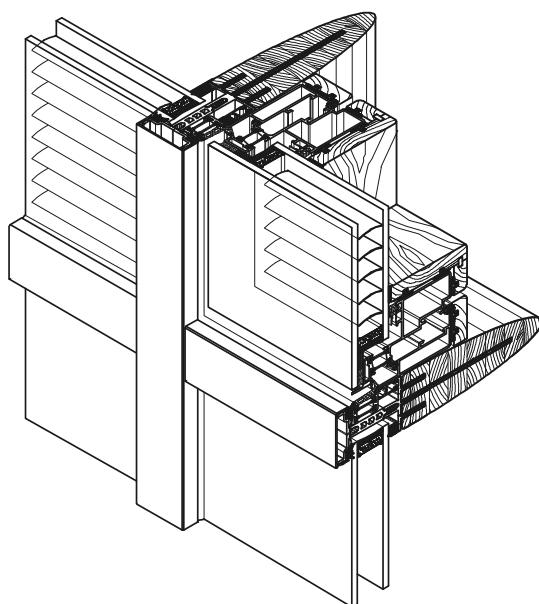
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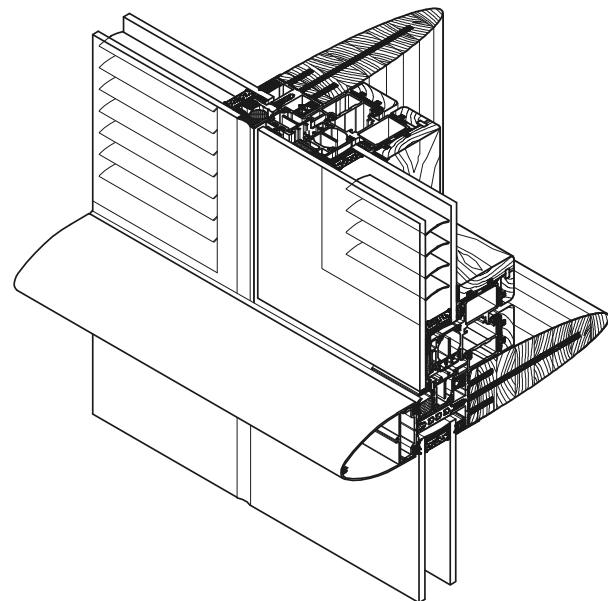
Aluminum Constructions Technology

Aluminum Construction Ltd. is Israel's leading curtain wall engineering and manufacturer for tall buildings (towers). Aluminum Construction Ltd. was founded in 1987 and boasts 2 plants - one in Israel and the other in Europe. The Company has 200 employees including engineers, production workers, installation workers, quality control technicians, etc. Aluminum Construction Ltd. develops and designs curtain wall systems and is renowned for its quality and professionalism both in Israel and in Europe. Aluminum Construction Ltd. tests the curtain wall systems it designs in a laboratory located on its premises and deemed to be one of the world's three leading laboratories testing curtain wall systems. Aluminum Construction Ltd. tailors its curtain walls to Israeli, European and American standards and adheres to some of the world's most stringent quality control guidelines. Aluminum Construction Ltd. installs its curtain walls with the help of its team of skilled employees. Aluminum Construction Ltd. provides service and oversees its projects through its subsidiary, "Aluminum Constructions International". Aluminum Construction Ltd. invites you to join the family of customers, enjoying its products and schedule a visit to the plant at any time.

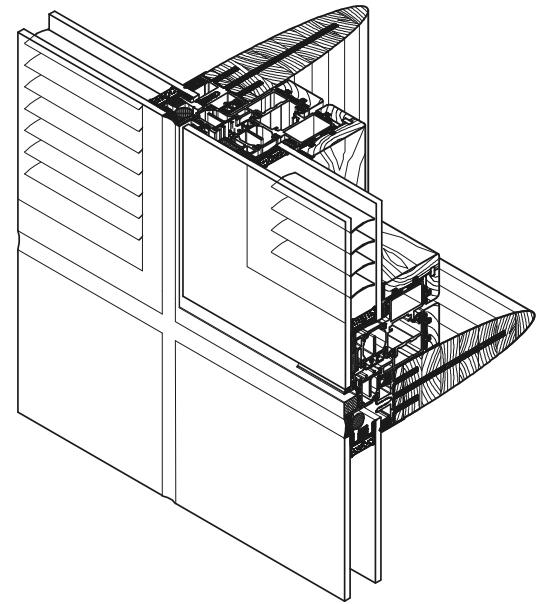
ALC-4000R



ALC-4000SSG



ALC-4000SG



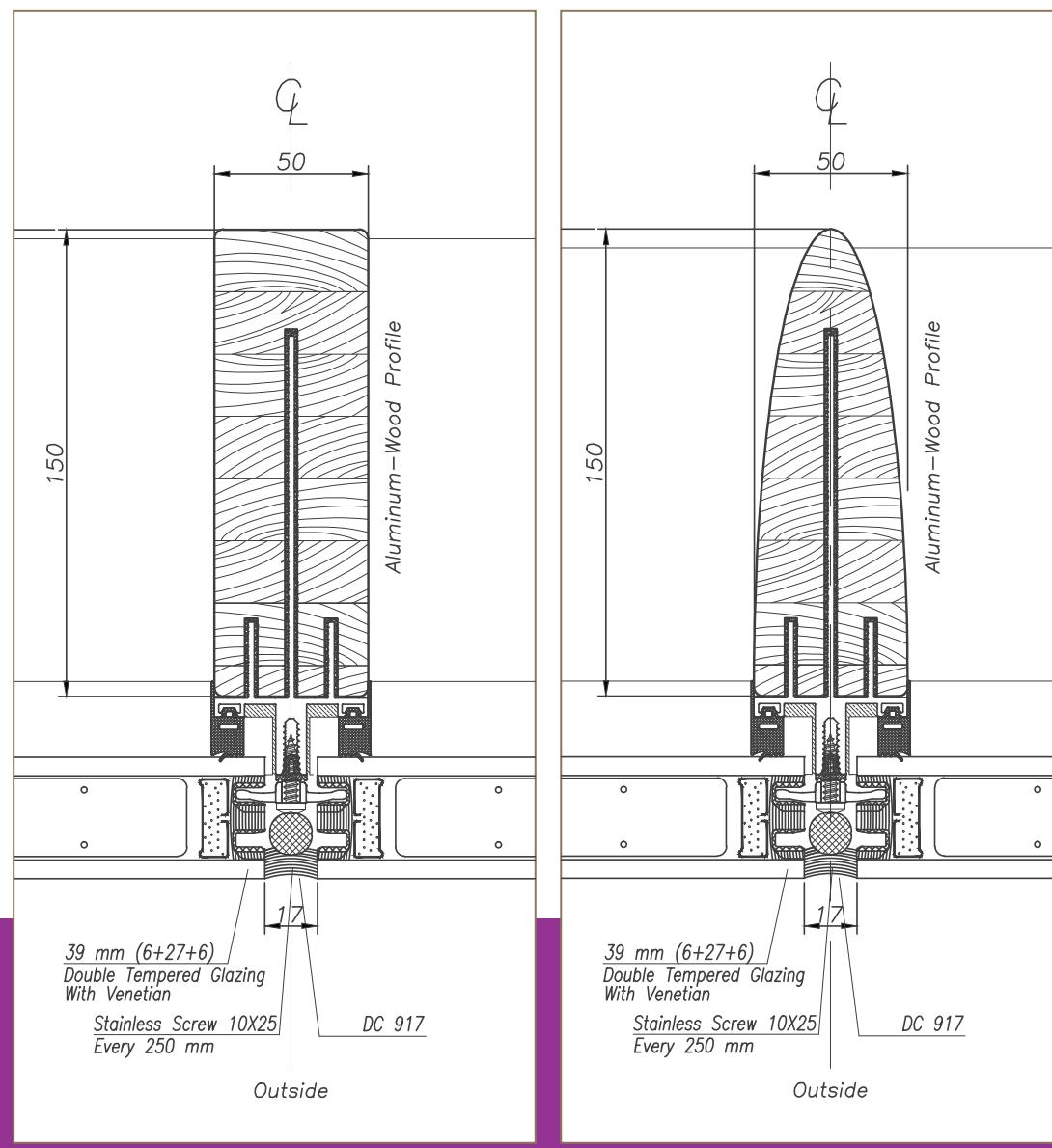
ALC 4000 HYBRID - ALUMINUM-WOOD CURTAIN WALL SYSTEM

Beauty of Wood and Durability of Aluminum

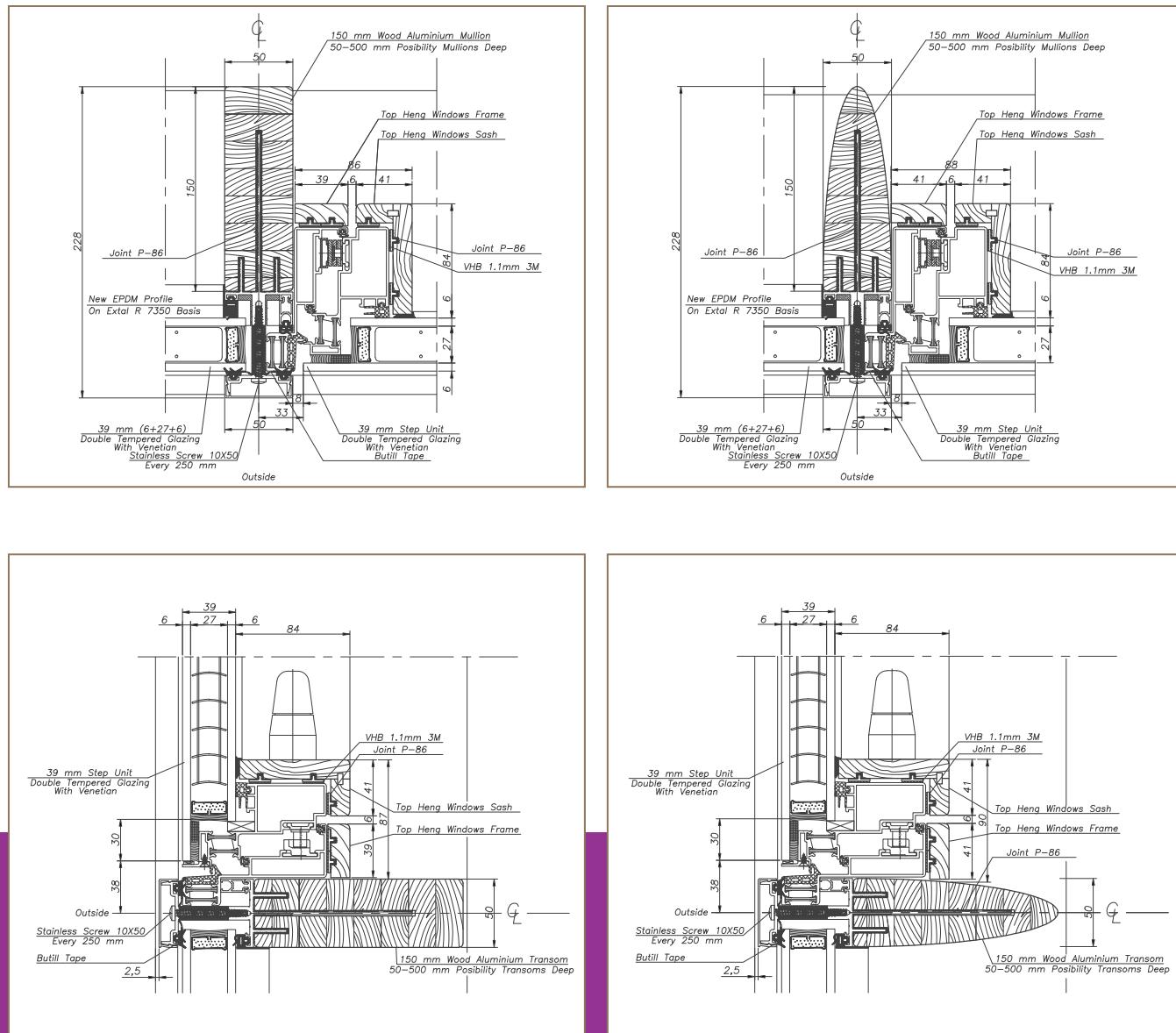
- Aluminum-wood - Regular Curtain Walls System.
- Aluminum-wood - Tow Side Structural Glass Curtain Walls System.
- Aluminum-wood - Four Side Structural Glass Curtain Walls System.



- **ALC 4000** system is a system of curtain walls based on a combination of two materials with a various features, "Wood inside aluminum outside."
- Curtain wall which is the shell structure of the building must be able to deal with forces such as wind power, heat and cold changes, earthquakes, etc..
- Aluminum Construction Company developed the system – **ALC 4000** Which combines multi-layers of hard and flexible wood with aluminum profile to spectacular, high-quality system.



- The **ALC 4000** system technology allows a homogeneous working between the wood and the aluminum.
- One of the most important achievements in the development of the **ALC 4000** system is the fact that you can get curtain walls all along the height of the building when on the inside we can enjoy the beauty and warmth of the wood and on the exterior we enjoy perfect aluminum profiles that extensively outside condition is perfect.
- The **ALC 4000** system is the only system of aluminum wood curtain walls in the world which allowed in a high rise building.



- The **ALC 4000** system was developed by Aluminum Construction Co. one of the world's leading companies in the field of curtain wall engineering and building cladding.
- The **ALC 4000** system has been designed and tested in the company laboratory and has been proven to conform to american and european standards for curtain walls.
- The **ALC 4000** system profiles can have a special geometric shape and a different shape between the mullion and the transom profile.
- The **ALC 4000** system can have different types of glazing and a different thickness of glass. the maximum thickness of glass can be 54mm.
- The **ALC 4000** system can be constructed of a 21 different types of wood as "mahogany", "beech", "African walnut" and other kinds of hard and flexible wood.
- The **ALC 4000** system is divided into three sub-systems:
 1. **ALC 4000 R system**- system which can be seen in the outside aluminum profile vertical and horizontal width 50mm.
 2. **ALC 4000 SSG system**- system which can be seen in the outside only horizontal aluminum profile width 50 mm.
 3. **ALC 4000 SG system**- system without external aluminum profiles.
- The **ALC 4000** system is a stick-type system with unique geometric structure in a combination of windows and doors.
- The **ALC 4000** system makes living behind glass extremely comfortable, since the system has very high static resilience with 3000 pa and proven ability to prevent water and air penetration.



Type's of Wood:



Poplar



Maple



Sycamore



Oak



Beech



Carob



Elm



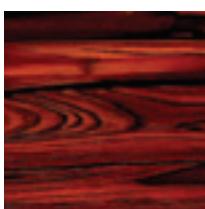
Ash



Cherry



Box wood



Cocobolo



Accacia



Mahogany



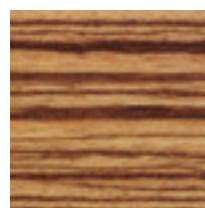
Paduak



Palisander



African walnut



Zebrano



Sapelle



Spalted



Wenge



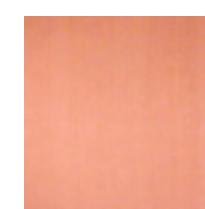
Birdseye



Qilted



Curly



Cedar



Mulberry



Crotch



Ambrosia Maple



Burl

Water Proofing and Air Proofing

The **ALC 4000** system is an especially sealed system, it's sealing system enables absolute resistance to especially high wind pressure up to a level of 3000 pa. the sealing system is based on structural sealing.

Thermal Insulation

The **ALC 4000** system has high thermal insulation capacity especially due to the fact that the wood is a very good insulator.

Acoustic Insulation - Outside-Inside

The **ALC 4000** system has excellent acoustic insulation capacity due to the fact that the wooden profiles are high-density and the sound waves affectivity are effectively blocked.



Production Processes of The ALC 4000 Profile

- One of the important production factors in the production of aluminum-wood profile is the correct choice of the wood. the wood must be strong and flexible. Aluminum Construction Co. tested a large variety of wood and found that the most suitable should be a wood like "mahogany", "beech" and "African walnut".
- The wooden profiles are built from layers glued together in a special process.
- The wooden profiles is processed so that the aluminum profile can be inserted into the wooden profile.
- The wooden profile and the aluminum profile are connected with a special adhesive which provides an excellent connection and maximum flexibility.
- The aluminum-wood profile is in the process drying for 21 days.
- The aluminum-wood profile is polished and coated with a high quality protection material.
- All production and assembly processes are carried out through the company's plant and quality control processes.



ALC 4000 Glazed with Insulating Glass with Electronic Venetian Blinds

- The insulating glass made by Aluminum Construction Co. is high-performance low E of the highest standard in the world and manufactured using advanced and sophisticated equipment.
- Electronic venetian blinds are installed in the gap between the insulating glass panes.
- The blinds are operated by a heavy-duty motor which is able to count motor revolution and detect ongoing stress to the motor.
- The venetian blinds are 15-25mm thick. The insulating glass used with the venetian blinds can be built to dimensions of 2000mm x 3000mm.
- The venetian blinds can be operated by connecting them to smart electric power and also by using a special integral remote controller.
- The following actions can be carried out with the electronic venetian blinds:
 - a. Raising
 - b. Lowering
 - c. Rotating
- The degree of shade achieved is approximately 93%.



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