



## WE CHANGE THE WAY, YOU SEE THE WORLD

Citadel Architectural Solutions Pvt. Ltd, A pioneer in the field of architectural solutions provide state of the art technology in Glass Glazing systems in combination with Cladding of Aluminum Composite Panels ( ACP)

Citadel has a team of highly qualified professional structural engineers & innovative production designers excel to convert your dreams into reality.

Citadel brings you a comprehensive and complete solution with its technically proficient infrastructure, thus encompassing all activities right from survey, design and supply of material till its erection and commissioning.

### Glazing Systems:

**Stick System:** - Stick glazing system incorporates spacers and adhesives to place the glass on the aluminum box grid. This system, now a days are popularly used in option of structural glazing for windows, storefront installations and low-rise buildings. The silicone sealant forms a continuous, water-proof seal against leakage and air infiltration, and assures resistance against UV, ozone and other environmental exposures and does not take on compression or lose resiliency.

**Structural glazing System:** - Structural glazing system incorporates additional frame of aluminum to place the glass on the grid structure of mullion and transom. This system is popularly used where stability is the main concern and in high rise buildings. The structural sealant forms a continuous, waterproof seal against leakage and air infiltration. The sealant and spacer transmit wind load movement to the structure and withstands flexure, tension, compression and differential thermal hear stresses. Silicone resists UV, ozone and other environmental exposures and does not take on a compression set or lose resiliency. While structural sealants generally carry a 20 year of exposure still demonstrate elasticity, adhesion and strength.

**Spider glazing system:-** Spider glazing system is an alternative to glued on structural glazing. This system allows to hold the glass by means of visible metal parts, which only cover a small part of the glass surface. The fixing holes can be drilled and countersunk, so that the bolts are embedded in the thickness of the glass. This system is often used for shop front at street level. It consists of all glass assemblies which may include one or more single or double doors, fixed side pane entirely made of tempered glass, assembled by various metal fittings and stiffened by mullions (fins) also made of tempered glass. The bolts used allow the glass, submitted to wind pressure, to be flexible. It limits sensibly the tension in the glass at suspension points.



## ENHANCING THE LOOK AROUND YOU

### Aluminium Composite Panels:

Aluminium is the ultimate solution of making tangible design that successfully catches your long-term attention. It offers a tailor made solution for your each imagination, with its exclusive surface contours.

Aluminium composite panel presents styles of design, looks of delicacy and at the same time shows the characteristic of high tolerance for seasonal weathers. It exhibits the unbeatable freshness and a feel of modernity.

Aluminium composite panel combines two proven and versatile material in one panel: a light polythene core and a baked on aluminium polyester varnish. The result is a practical, super-light material that offers you opportunities with regard to loading, rigidity and work ability.

### Features:

**EXCELLENT FLATNESS:** It's an ideal material to achieve smooth, monolithic surfaces for an excellent finish compared to other building materials.

**LIGHT WEIGHT:** Owing to its lightweight, it provides considerable saving in transportation, fabrication, installation and cut short the completion time.

**THE CONSISTENCY OF PAINT FINISH:** Due to high fluctuation in the temperature, solid aluminium panels suffer from high thermal expansion. However

aluminium composite panels maintain its flatness as the thermal expansion of aluminum composite panels is very low as the aluminium skins are of 0.5 mm thickness.

**RESISTANCE TO BLOW AND BREAKAGE:** Aluminium composite panel has high strength and rigidity. Their deflection capacity and bending strength are outstanding. The rigidity of 4 mm aluminium composite panel is equal to that of 3.3 mm solid aluminum or 2.4 mm steel.

**WEATHERABILITY:** ACP provides resistant to fading, color change, weather damage, corrosion and chalking.

**SOUND INSULATION:** 4 mm ACP have a sound reduction of about 25 dB, which is almost double than any other building materials.

**HEAT INSULATION:** The thermoplastic core provides an excellent heat insulating capability. Hence provide saving in energy and maintenance.

### DIMENSIONS:

Thickness: 4mm (standard)  
3mm & 6 mm also available  
Width: 1240 mm and 1540 mm  
Length: 2440 mm & 2050 mm & 3660 mm  
Length up to 8000mm can be obtained

Website: [www.citadelarch.com](http://www.citadelarch.com)



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