



ALCADEX[®] A2 FR

INNOVATIVE FACADES BY ALCADEX[®] A2 FR

ADVANCED COMPOSITE PANEL TECHNOLOGY





Introduction

Our market has been and is currently dominated by plastic core (polyethylene) Aluminum composite panel materials which are not biodegradable fire hazardous materials.

Having been involved on numerous projects and clients internationally, we experienced an increasing number of markets black banning the use composite panels. Aluminum composite panels that incorporated polyethylene based materials.

To maintain our ethos of providing clean facade fixing solutions with these inferior materials, would be contradictory to what we've spent years on.

Having discussed our concerns with a leading machinery producer and engineers in the field, a close relationship was quickly formed to help for composite materials and the required machinery to manufacture what is today Alcadex® A2 FR superior fire rating whilst utilizing materials.

We are confident that Alcadex® a proudly Chinese owned and operated company, has taken a positive step forward, in safe sustainable facade.

Technology

Technology offers:

- +Inorganic matrix core
- +Minimizing Carbon foot print
- +Fire safety, non-combustible core
- +Light weight and high rigidity
- +Superior flatness
- +Unlimited range of finishes and various metals
- +Extensive application use
- +No ignitability
- +No flammability
- +No combustion gases
- +No toxicity
- +No smoke emanation
- +No heat release

ECO friendly

Almost all aluminum composite panel manufacturers world wide, use large amounts of plastic materials in the make up of their core materials.

- +Plastic take long time to break down, 700 years to disintegrate
- +There is no natural process for decomposing plastic
- +Plastic largely comes from crude oil
- +Burning plastic results in air pollution and toxic ash
- +Recycling plastic is economically unviable

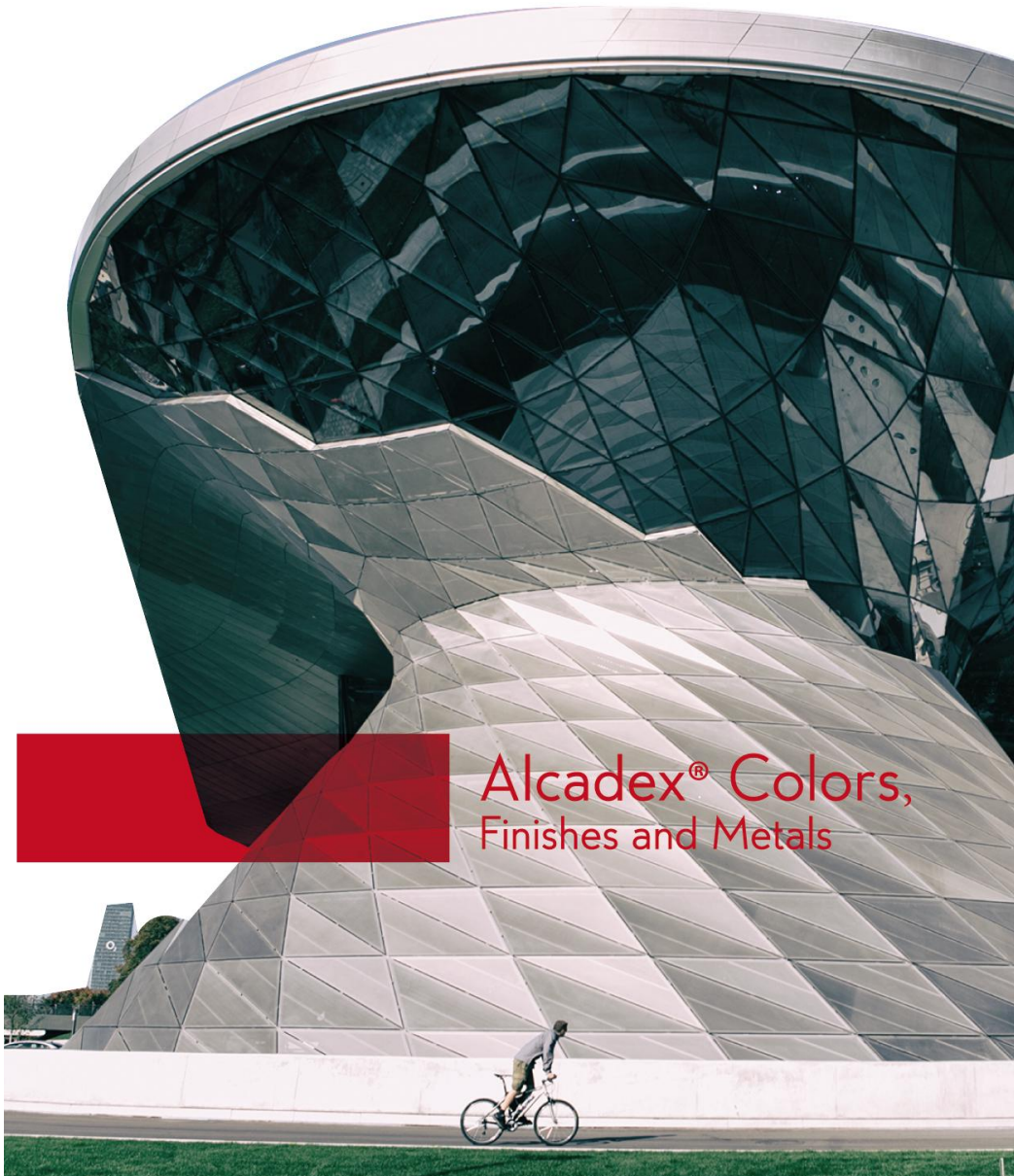




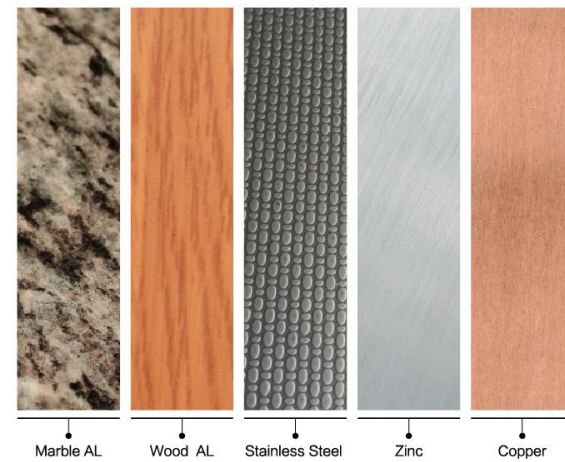
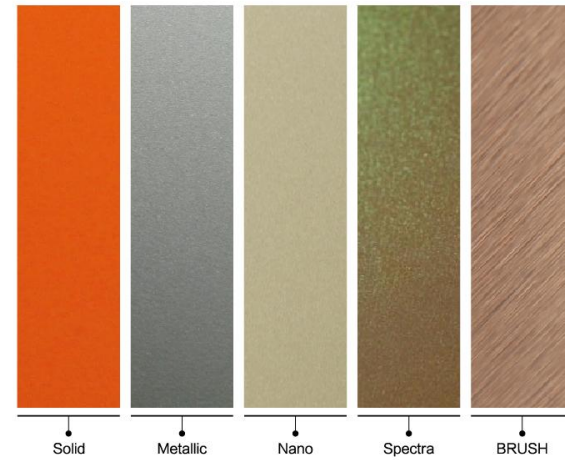
Alcadex® FIRE Performance

Test Standard	Classification
ASTM E84	FSI 0, SD0
EN13501-1	A2, s1,d0
EN13501-2:2007+A1:2009	EI 120 mints
NFPA 285	Pass
AS 1530.1	Non-combustible
AS 1530.3	SFI:0 , SDI:1
BS476, Part 6 & 7	Class 0





Alcadex® Colors,
Finishes and Metals

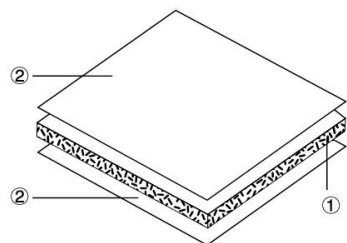




Alcadex® A2 FR Panel Dimensions

Thickness: 3mm / 4mm / 5mm / 6mm

Width (mm)	1000	1220/1250	1500	1575
Length (mm)	2000-6000	2000-11000	2000-11000	2000-11000
Solid Color	▲	▲	▲	▲
Metallic Color	▲	▲	▲	▲
Nano	▲	▲	▲	▲
Spectra Color	▲	▲	▲	▲
Brush	▲	▲	▲	▲
Stone/Wood	▲	▲	▲	▲
Anodise AL	▲	▲	▲	▲
Special Metal	▲	▲	-	-



- ①. Mineral Core
- ②. AA3003 Alu. 0.50mm

Alcadex® Hi-Fix System

Installing Alcadex® is both structurally superior and aesthetically more pleasing when comparing to face sealant jointing systems.

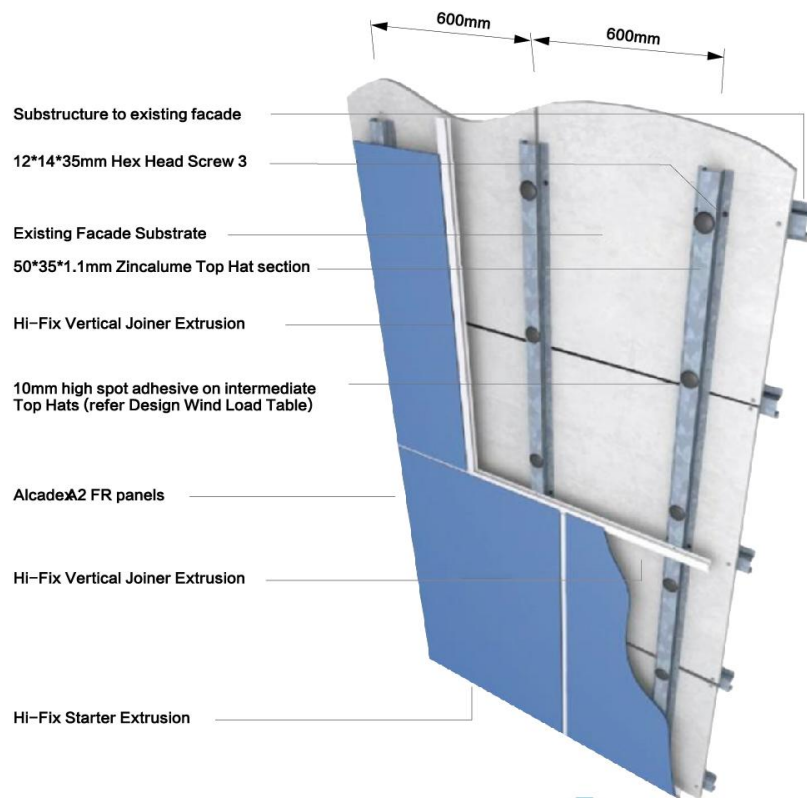
Alcadex® Hi-Fix Features

- +Superior flatness
- +Excellent Colour uniformity from panel to panel
- +Lightweight and high
- +Workability
- +Fire Safety
- +Superior Structural Performance
- +Ease of installation & maintenance
- +Expensive CNC machinery not required
- +Greater design versatility
- +Complete waterproof and self draining
- +Certified and tested for cyclone prone environments

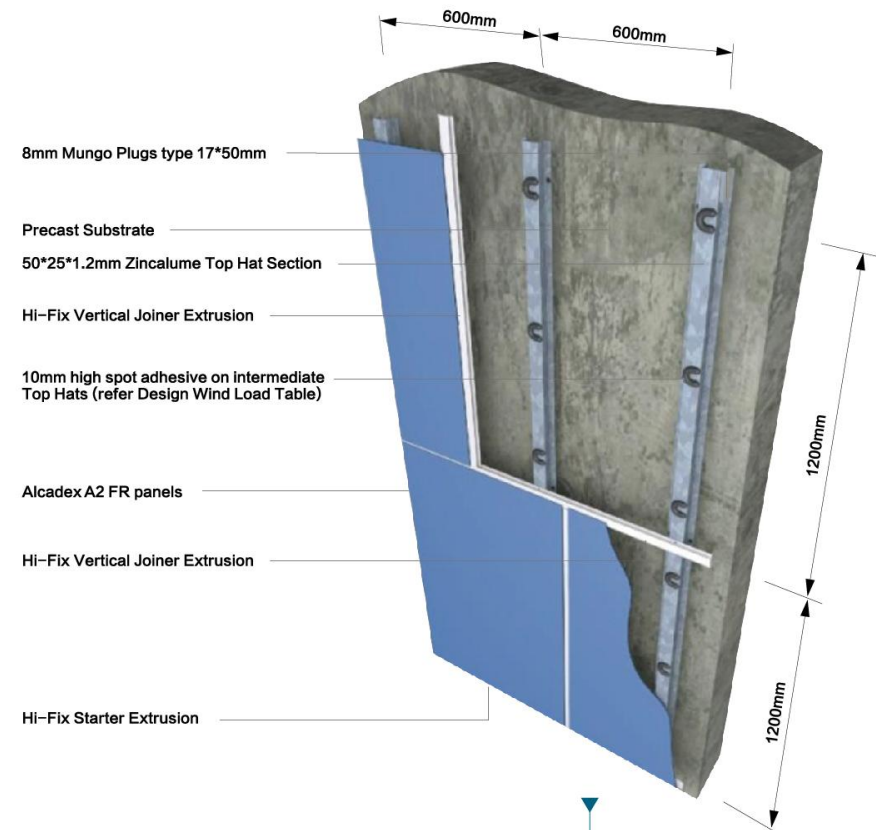




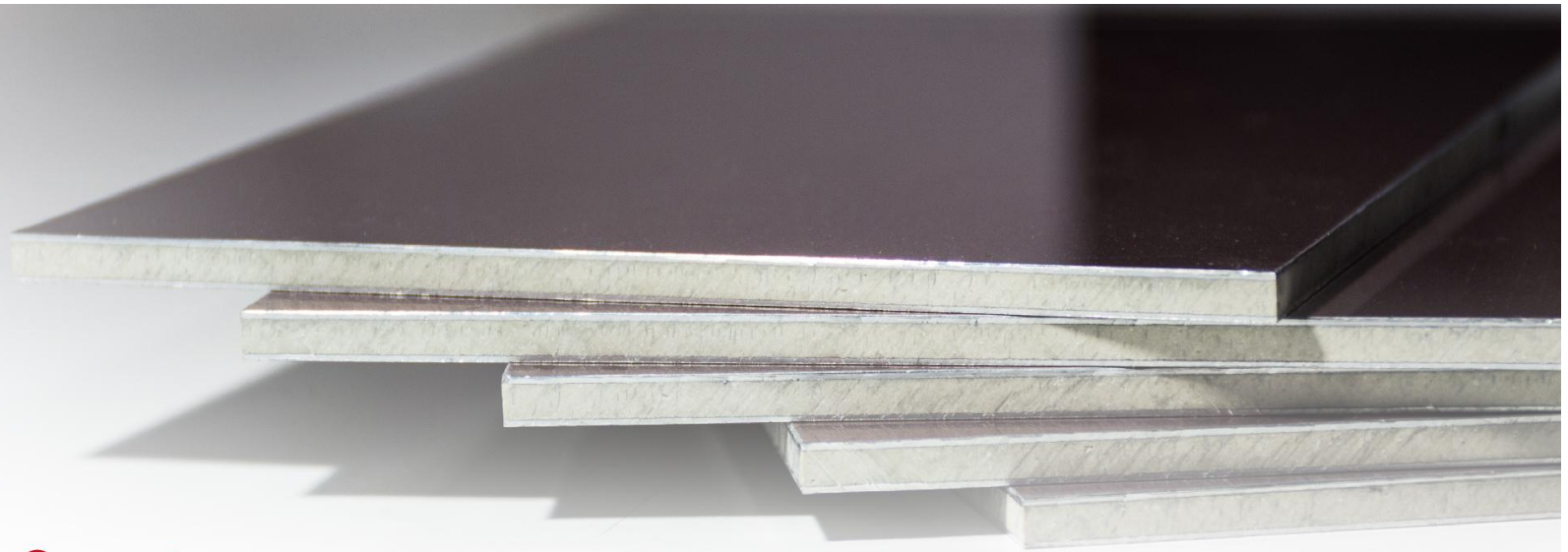
Alcadex® Hi-Fix Features



Existing Facade Substrate



Precast Wall Substrate



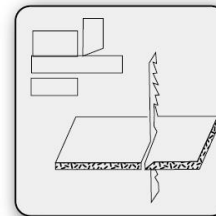
Panel Preparation Comparison

Alcadex® Hi-Fix Over 50% Less Handling

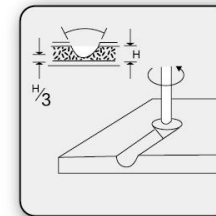
- ◆ Cut the panel to size
- ◆ Edge route full perimeter of panel
- ◆ Panel Ready for installation

Traditional Cassette Fix-Leading Brand

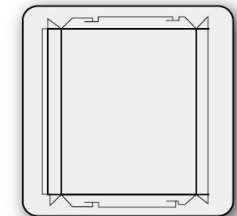
- ◆ Cut the panel to size
- ◆ V Groove full perimeter of panel to allow for cassette fold
- ◆ Punch out corners and sides of panel to allow for hanging panel (if not using angle fixing)
- ◆ Fold all four sides of panel (material wastage)
- ◆ Caulk inside fold full perimeter
- ◆ Measure and cut supporting angle (for inside of cassette panel for support)
- ◆ Screw support angle to inside of cassette panel
- ◆ Panel Ready for installation



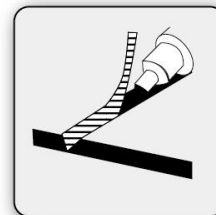
CUTTING



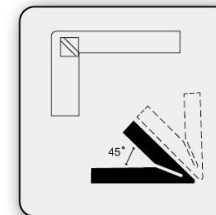
GROOVING



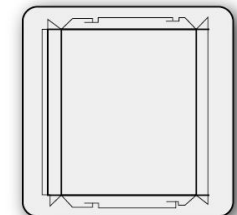
MAKING BOX



WELDING



ANGLES



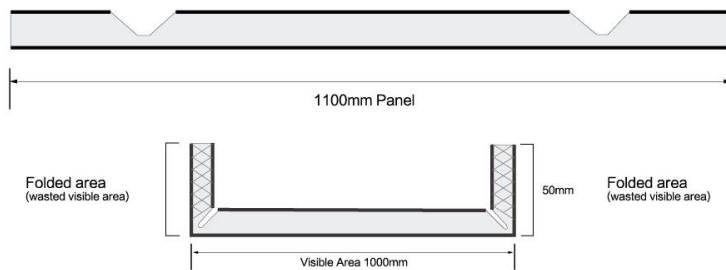
BENDING



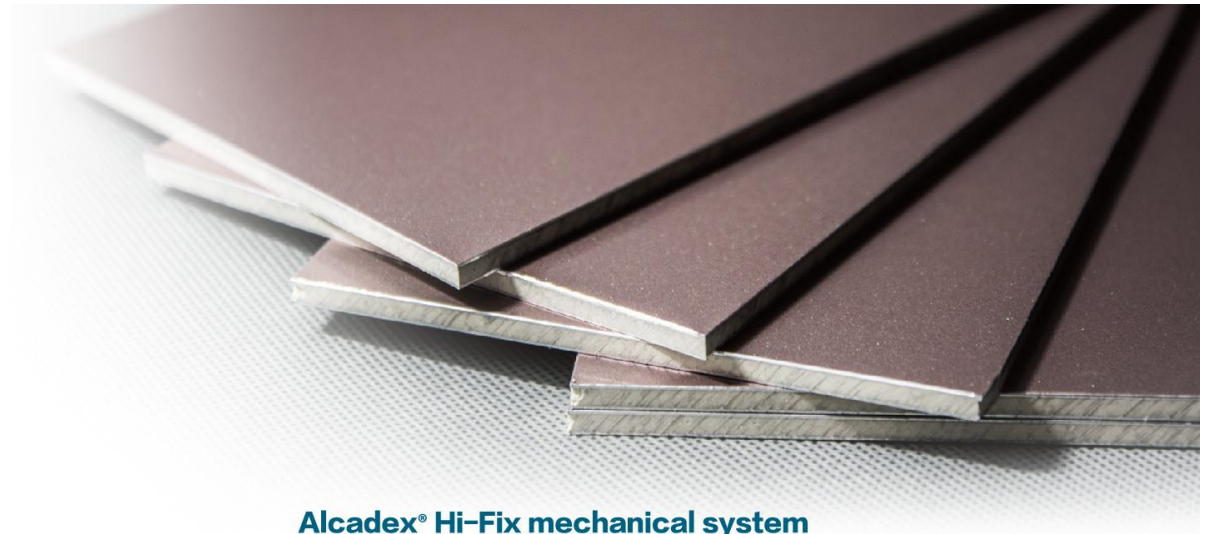
Panel Waste Comparison

Leading Brand-Traditional Cassette (tray) system

2m² Visible cover=2100mm x 1100mm(50mm Folds)

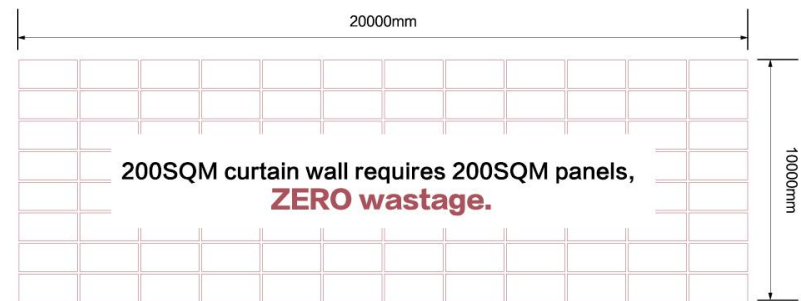
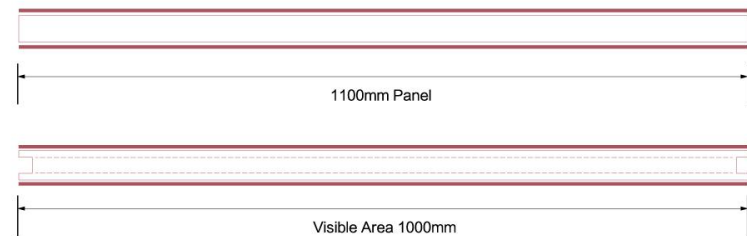


20 m² Folded panel area not visible (Waste)



Alcadex® Hi-Fix mechanical system

2m² Visible cover=2000mm x 1000mm(No Folds)





Perforated Alcadex®

- +Curved Alcadex®
- +Machining shapes
- +Colour matching solutions
- +Custom fixing solutions
- +Pre-fabricated Solutions



Service and Support

Technical assistance with specification clauses, installation and detailed drawings assistance. Quantity measure of the project materials quantity for both Alcadex® panels and fixing accessories.

- Assistance with general & technical inquiries
- Product detailing into architectural plans
- Custom color and fixing system samples for architectural sample boards
- 2D&3D rendered details