



AN ISO 9001: 2015 CERTIFIED COMPANY











Eva Alu Panel Ltd. with an impressive portfolio of manufacturing, marketing and exports is a name to vouch for in the field of aluminium panels.

The company employs a team of highly experienced and qualified engineers as also production experts and office staff. A golden trail of work because of years of consistent and efficient service has made Eva a brand synonymous to trust and faith.

Apart from the track record, it is flexibility and attention to details that has imparted Eva the edge and has helped it acquire a unique market position.

Over the span from its inception till today, Eva has strictly adhered to industry-prescribed norms. The planning, the system of work as well as the product manufacturing- everything is done in accordance with the ISO 9001:2015 guidelines. This has made getting product approvals easy and has opened the door for entry into the new market.

The able leadership of Hon'ble Chairman Shri N.A. Patel and the Hon'ble Managing Director Shri J.K. Patel has been a constant source of inspiration and motivation for team Eva.

The strength lies in the development and production of Quality Specialist industrial and commercial laminated of injected composite panels to suit individual requirements.

Eva Bond with high end German Technology was formed to service a specialist market.

The strength lies in the development and production of customised and high-grade laminated composite panels.

Eva has today achieved manufacturing capacity of 65,000 sq. feet per day. The product is manufactured as per strict quality procedures and is further fine-tuned to suit individual requirements.

At Eva, customer satisfaction is of utmost importance. The marketing team reaches out to customers and the wide-spread network of dealers and distributors across India fulfil their requirements.

Eva's list of clientele speaks volumes about the standing of the brand Eva in the market. With firm determination and commitment to quality, Eva is the rising Sun of the new age.



# MANUFACTURING FACILITIES

EvaBondishavingastate-of-artmanufacturing facilitytoproduceworldclassACP's. Thelines are PLC controlled with self diagnostics capability. EvaBondisequippedtoproduceover 65,000 sq. ft. of ACP's per day and is in the process of enhancing the capacity upwards in nearfuturetocateroverseasmarketdynamically by trained and experienced professional technocrats.

EvaBondofferawiderangeofACP'sforexterior and interior applications. Plant is having manufacturing facility to produce Aluminium CompositePanelsrangingfrom2mmto6mm thickness, with aluminium skin ranging from 0.18mmto0.5mm,withtailormadewidthand lengthupto1240mmand1550mminPVDF paintforexteriorapplicationsandPolyesterfor interiorapplications.











# TESTING FACILITIES

Thecustomerisatthecentreofouractivities and thoughts. This important guiding principle is not a platitude, but is resolutely translated into practice. With this customer-oriented approach andmannerofworking, wealways ensure that EvaBond, India, products uniteall the customer's wishes and do justice to their specific requirements. To achieve this, we are having ultra modern Test Lab consisting of highly sophisticated and precise test equipments. With these wide variety of tests at different environmentalconditionswhicharesimulatedin the test lab, our finished product meets all internationalstandards.



DigitalGlossMeter





PunchStressTest



**HumidityCabinet** 



# VISION QUALITY AND ASSURANCE

At Eva Bond, we firmly believe that the success of business depends on providing high quality products and services to all valued customers through efforts of its teammembers.

Quality Management is practice d from the top management to the lower most position in the product realization process.

Qualityisensuredateverystagerightfromtheinputmaterialstothefinishedproduct. The four stages of quality assurance are as below:

- PreProductionQualityAssurance
- In-processControl
- PostProductionQualityAssurance
- DespatchQualityAssurance

### **Pre-Production Quality Assurance**

Allreceivedrawmaterialareinspectedthoroughlybeforeissuingtoproduction. Eachrawmaterial crossstrict'QualityControl'specifyingqualitystandard.

#### **In-Process Control**

Each process of production, quality is ensured by rigorous checking process. All standard parameters are verified and recorded during the production, to ensure high quality of production.

## **Post Production Quality Assurance**

Beforesendingtheproductiontostockyardfinalinspectionisalwaysdonetoverifythatproducthas crossedalltheparametersofqualitystandardandnorms.

Alwaysproperbatchcodingisgiventotheproduction, shiftvise and dayvise by vide o jet laser printing on the back of every ACP sheets, which gives a complete data information of all inputs of raw material sused during production.

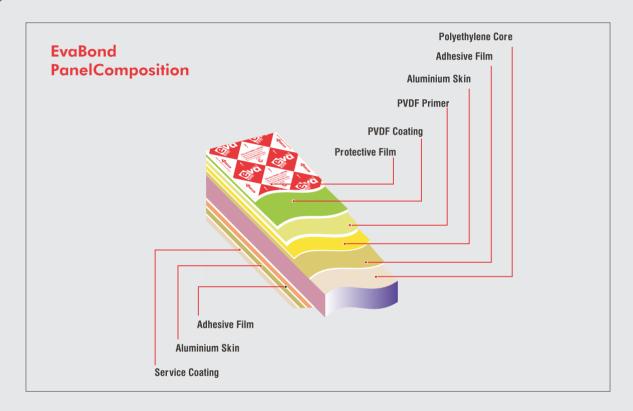
#### **Despatch Inspection**

Togettheextramileageofcustomersatisfactionandconfidence, despatchdeptt.alwaysensurethat bestofmaterial to bereceived by our customer.



## **PRODUCT**

AluminiumPanelsheet(ACP)isacladdingmaterialusedforexternal facades&interiorsofModernstyleoflivingstandard.ACPconsistsofan extrudedPolyethylenecoresandwichedbetweentwoAluminiumsheets.



### **ProductDimension**

StandardWidth :1220mm AvailableWidth :1550mm

StandardLength :2440mm,3050mm,3660mm AvailableLength :AnyL engthupto4880mm

StandardThickness :3mm,4mm
AvailableThickness :2mm,5mm,6mm
Alu.CoilThickness :0.25mm,0.50mm

#### **ProductTolerance**

Width :±2mm Length :±4mm

Thickness:4mmThick±0.2mm Squareness:Max+5.0mm Bow:Max0.5%

## **Suggestions**

1. Toensure colour consistency, the total requirement for a project is advised to be placed in one order. It is also recommended to install the panels in the same direction as marked arrow on protective peel-of-film to avoid possible reflection difference.

1 1	11	1 1	1 1	1 1	11
1 1	1 1	1 1	<b>→</b>	<b>→</b>	<b>→</b>
1 1	1 1	1 1	1 1	1 1	1 1
D:I-+-			14/		

2. Custom colours are also available upon request for solid colours, metalic colours & special finishes such as mirror, brush finishes act. Subject to the respective minimum quantity.

3.Colourmayvaryfrombatchto batch.( $\pm \blacktriangle 5$ )



## **PRODUCT**

## **Product Detail**

EvaBondforexteriorprotectiveshieldfornewbuildingsandrenovationapplicationsconsistsofa polyethylenecoreand2Aluminiumskinseachof0.5mm/0.25mmthick.

At EVABOND we are using online laminator and catalytic fusion process. EvaBond consists of coated Aluminiumskin. The catalytic fusion process guarantees each panel has high quality of durable coating on the top with minimum thickness of 25 microns.

 $\label{lem:condition} Eva Bond with its standard has excellent robustness against industrial pollution \& ability to survive in any extreme we ather conditions.$ 

## **PhysicalCharacteristic**

Item	Standard	Remarks
PanelThickness	4mm	Availableonrequest-3mm, 5mm&6mm
AluminiumCoverSheets thickness(Skin)	0.5mm	Availablethickness 0.25mmto0.50mm
Core	ThethermoplasticcoreisLDPE	ThethermoplasticcoreinEvaBondpanelis lowdensitypolyethylene(LDPE), Belongstocarbonhydrogenplastic anditisnon-toxicinnature. Thefinalresultaftertheburningof polyethyleneiscarbon,Co2,CO&H2O.
PanelWidth	1220mm	Canbeadjustedasper requirement
PanelLength	2440mm	-
PanelWeight	5.5kg/mm2	-
Surfacefinish	Exteriorfacecoilcoatedwith PVDF(KYNAR-500,min70%) Interiorfacecoilcoatedwithpolyester	-

## MechanicalCharacteristic

BeinglightweightEvaBondhashighbending, buckling and breakingstrength. It has properties that resist it blows, breakage and handle highwind pressure. Following are the mechanical properties of EvaBond:

- 1.Panelthickness-3mm&4mm
- 2. Skinthickness 0.25 & 0.50 mm respectively.

Item	Unit	T	estResults	Standards
SpecificGravity(panel)	g/c	1.38	1.52	
TensileStrength(panel)	Kg/mm2	4.5	6.2	E-8
YieldStrength(panel)	Kg/mm2	4.0	5.9	E-8
FlexuralRigidity(panel)	X105kg.mm2	7.3	14.0	C-393 (20cmspan)
Elongation:(panel) HorizontalElongation atbreakingpoint	%	12%	14%	E-8
VerticalElongation atbreakingpoint	%	11%	13%	E-8
	F	PunchingshearResistanc	е	
MaximumLoad(panel)	Kg	1380	1650	D-732
ShearResistance(panel)	Kglmm2	2.9	2.6	_



# **SPECIFICAION**

# **Panel Bond Integrety**

Item	Unit	3Mm	4Mm	Remark
VerticalPull	Kg/cm2	120	120	C-297
DrumPeel	MmN/mm	150	150	D-1781
FlatwiseShear	Kg/cm2	88.5	86.1	C-273

# **Dent(impact) Test By Du-Pont Method**

SteelBallW eight(kg)	Height(mm)DentE	Pepth(mm)	
		3mm	4mm
0.30	300	0.74	0.56
0.30	500	1.17	0.81
0.50	300	1.18	0.88
0.50	500	1.64	1.36
1.00	300	1.97	1.71
1.00	500	2.60	2.29

## **Panel Fire Resistance Characteristic**

Eva Bond is manufactured using two strong sheets of noncombustible aluminium. It can resist againstfirealsoafterlaminationprocess. Following is the resistant test result of Eva Bondafter fire resistant test.

Ignitibility	Index0	Class"A"
HeatEvolved	Index0	Class"A"
FlameSpread	Index0	Class"A"

# Thermallnsulation Properties (panel)

PanelThickness	ThermalResistance	ThermalConductivity
4mm	5.26(mb°C/kcal)	0.19(kcal/mh°c)

## Thermal Expansion Of Panel

PanelThickness	Co-efficientof Thermalexpansion	Standard
4mm	26X10-4	D-696.



# **SPECIFICAION**

## **Dimensional Tolerance**

Width	+2.0mm	
Length	+4.0mm	
Thickness	+0.2mm	
Bow	Maximum0.5%ofthelength and/orwidth	
Squareness	Maximum5.0mm	
SurfaceDefect	NoirregularitiessuchasRoughness, bucklingandotherimperfectionswithour specificationofvisualinspectionrules.	
Thermalexpansion 1.2 mm/m/50°C		

# **Surface properties**

Following is coating properties of Eva Bond 4mm panel

DryFilmP roperty	Testmethod	Criteria	
ColourRetention	D2244-93	Max5unitsafter4000hrs(exposedskin)	
GlossRetention	D523-89	70%after4000hrs.(exposedskin)	
Chalking	D414-89	Max8unitsafter4000hrs(exposedskin)	
SaltSpray	D-B117-90 NCCA11-2	Blisters-10(exposedskin)Scribe -8 3000hrsaluminium,35?C	
Humidity-Thermal	D2246-65	Noblister(exposedskin)Nocracking10cycles:24hrsX 100%RH.37.8c:2hrsX18C :4hrs.X24?C	
Humidity	D2247-94	Nochange(exposedskin)3000hrsaluminium,35?C	
CondensingHumidity (Cleveland)	D4585-87	Nonetoveryfew#8blisters(exposedskin)100%RHX 54.4C,2500hrs	
Pencilhardness	D3363-92a	2H(exposedskin)	
Adhesion	D3359,		
DryWetBoilingWater	Method8	Nochange(exposedskin) Nochangeafter37.8?C,24hrs. Nochangeafter100C,20min	
Impactresistance	NCCA11-5	Nopickingoffafterreverseimpactcross -hatchtest(panel)	
Abrasionresistance	D968-93	Resisting20litersoffallingsand.(panel) 20litersasthecriterionofAAMA 70liters/milastheactualvalue	

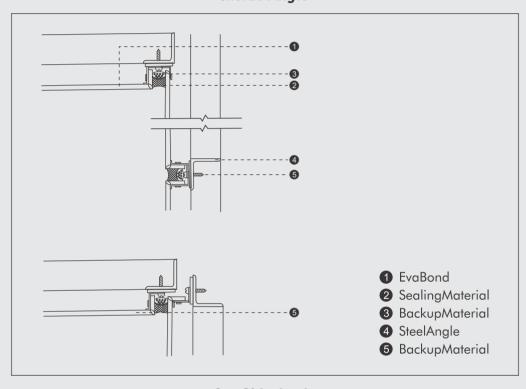
# Comparison Chart Between Eva Bond Panels, Solid Aluminium and Steel

Item	EvaBondP anels	SolidAluminium	Steel
Weight	4mm:5.48Kg/m2	3mm:8.0kg/m2	1.5mm:11.47kg/m2
Flatness	VeryFlat	Uneven	Uneven
HeatInsulation	Best	Poor	Poor
SoundInsulation	25db	15db	5db
EchoResponse	Low	Medium	High
WeatherProof	Good	Good	Good
FireProof	Good	Good	Good
PaintConsistency	Best	Inconsistent	Inconsistent
PaintMicrons	Even	Uneven	Uneven
Fabrication	Easy	Difficult	VeryTough
Deliver	Quick	Slow	Slow
TotalCost	Economical	MediumCost	Expensive
Maintenance	Easy	Easy	Easy
Installation	Quick	Slow	VerySlow

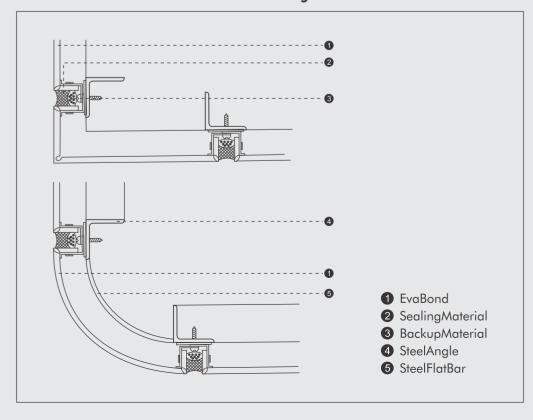


# INSTALLATION METHOD

# **Inside Angle**



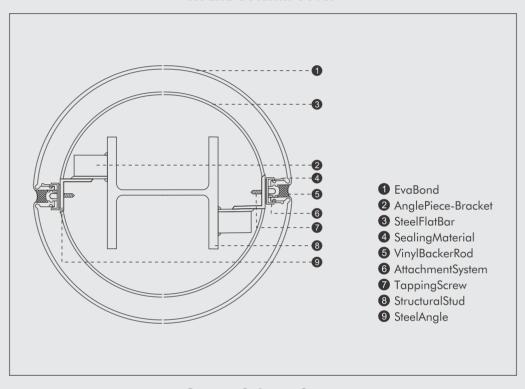
# **Out Side Angle**



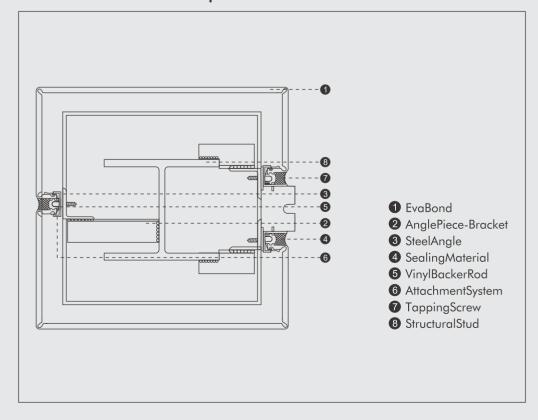


# INSTALLATION METHOD

## **Round Column Cover**



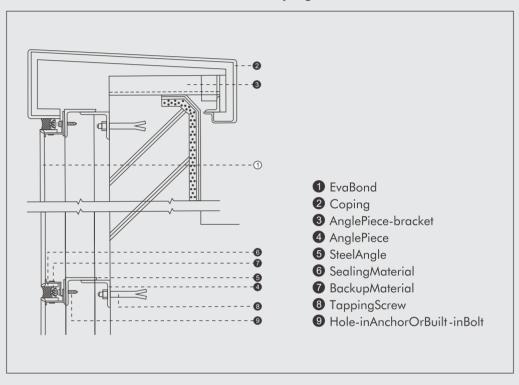
**Square Column Cover** 



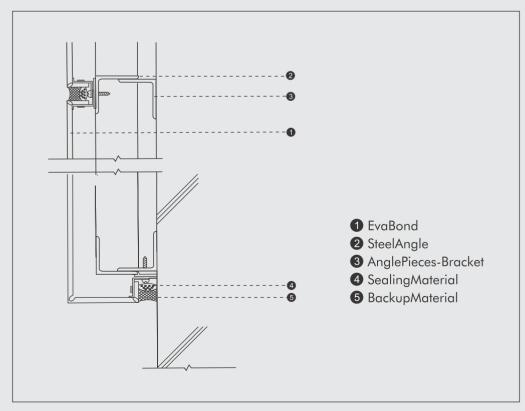


# INSTALLATION METHOD

# **Around Coping**



## **Around Foundation**





# **FABRICATION**

## **Processing Eva Bond ACP**

Various fabrication techniques can be employed to fabricate Eva Bond Aluminium Composite Panels. It is recommended to carry out fabrication in a workshop to minimised effects, exercise over all quality control and to attain higher levels of accuracy.

Thematerialcanbefabricated by employing the right tools. The blade configuration and the cutting conditions should carefully selected to ensure that frictional forces are minimized and the heat produced during the process is also kept to the minimum.



Cutting
Cutting, electronic
saw, bandsaw, disc
scissor.



Slotting
Aftermachiningby
electronicmilling
machineorportable
millingmachine,panel
bendabletoallkindsof
polyhedronbyhand



Chamfering
Foldintoacarton
aftermachiningof
punchmachineand
chamfer



Welding Byplasticrodand thermo-welding machine.



**Angle**Allanglesavailable
afterslotting



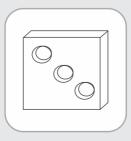
Bending Curvesurfaceby3pointstyle,3-roller panelbender



**Printing**Allprintingavailable bywebbypanel.



**Riveting**Byrivet,bolt,self-fastenscrewetc.



**Bolting** 



## **FABRICATION**

## **Installation Pre-requisites**

- Panels ought to be erected in accordance, with an approved set of shop drawings. In addition structuralstrengthofanchorageandassortedhardwareusedforfasteningshouldbeasperstandard andpreferablyinaluminiumasperengineeringrecommendations.
- Whereveraluminium comes in contact with dissimilar metals, it should be properly insulated else use of caulking tape is advised to avoid electrolytic corrosion.
- Thebendportionsbetweenpaneljointsshallnotbecaulkedbeforeprotectivefilmisremoved. Ensure weepholesanddrainagechannelsareunobstructedandfreeofdebris, dirtandsealant.
- Itisrecommendedtoinstallthepanelvertically.

## **Cleaning Method**

- Routine cleaning of the ACP surface is recommended. It may be washed with water and mild detergent, followed by clean water rinse. The frequency with which cleaning is to be carried out and the choice of a suitable cleaning agent depends largely on the location of the building and levels of contamination.
- Donotcleanwhensurfacetemperaturesareabove40degreecentigradetoavoidformationofstain.
- Thecleaningoperationmustbecarriedoutfromtoptobottomfollowedbyproperrinsingwithclean watertoensuretheremovalofthecleansingagentresidues. Afinalwipedownbymeansofasponge, leatherorwiperisnecessarytoavoidwaterstains.



## **FEATURES**

Eva Bond's properties make it a perfect replacement for conventional cladding materialsuchasmarble,granite,concreteetc.



#### EvaBondHi-techLook

It increases the perceived value of commercial or residential projectsmakingiteasilysaleable.



#### **Flatness**

Continuouslaminatingprocessprovidesexcellentflatnessofthe panelseliminatingdistortionordeflection. Flatnessofupto 2mm per 1200 mmlengthi.e. 0.16% of its length is now possible through this technology.



#### **EasyAvailability**

Beinglocallymanufactured, EvaBondisreadilyavailable. It can be ordered and delivered at short notice, according to the progress of your project. Thereby, reducing financial commitments and blockage of builder's funds.



## SizeAdvantage

EvaBondcanbeorderedinanytailormadesize,thuseliminating wastage.



### ReducedDeadWeight

Beingaverylightandstrongcladdingmaterial, EvaBondreduces the dead weight of the building. It weighs less than 1/10th of conventional claddingmaterial such as marble, granite etc. Eva Bondmakes the buildings afer from earthquake.



### WaterandCorrosionResistance

100%maintenancefree,Kynar500basedPVDFcoatingassures superior resistance against corrosion. It can withstand extreme environmentalconditions.



## **FEATURES**



### ColourUniformity

The coil coating process provides the best quality of colour uniformityunlikesprayguntypeandtherearenovisiblegrain lines



#### **SoundResistance**

EvaBond, being a multilayer panel, has an excellent sound proof effect.



#### **ThermalResistance**

Polyethelene is one of the best insulating material. Eva Bond's Polyethelenecoredoesnotallowheattopenetratethebuilding, thus results of majorelectricity costs avinginair-conditioning.



#### 100%MaintanceFree

PVDF coating retains its finish usually over 15 years. No maintenance isrequired.Regularcleaningwithmilddetergent willkeepthefinishingasgoodasnew.



## **ImpactResistance**

EvaBondisresistanttoreasonableimpactloadsduetotheunique composite construction of strong aluminum skins bonded to a viscoelasticcore.



#### Versatility

EvaBondcanbeshapedtoanydesireddesign.concave,convex andanybentstructurescanbecreated,byusingstandardwoodor aluminiumworkingmachines.



#### QuickInstallation

EvaBondrendersitselftoeasyinstallation. Project execution time is drastically reduced.



# **APPLICATION**

- EvaBondisthemostversatilebuildingmaterialforexteriorandinterioruse.
- Exteriors(curtainwallingandwallpaneling)ofhighriseapartments,industrialand commercialbuildings,hospitals, hotels,gasstations, shoppingmalls,educational institutes,conventioncentersetc.
- Roofedgingandspandrelpanels, wallandceilingpanels, beamwrapsetc.

Facelift/retrofitofferbuildingscolumnsandbeamcovers.

- Interiors(wallsandceilings)ofshops,apartments,offices,workshops,showrooms, elevators,etc.
- Storecanopies, shopfronts, dealer sign-boards, displayunits, vehicle bodies, sign-postsetc.
- Innovativefurniture,partitionsetc.











# **CERTIFICATES**





















# **EVA ALU PANEL LIMITED**

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## **BRANCH OFFICES**

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