

EZYBUILD® - SMARTBUILD® SOLUTION & ITS SPECIFICATION

Section 1: Product brief definition

Ezybuild® - Smartbuild® solution is a complete building with framed openings. It's designed for extreme condition and can be built within SAARC countries except snow fall region. SMARTBUILD® system is made from high tensile zinc and aluminium alloy coated ZINCALUME® steel. Zinc and aluminium alloy coated steel is a preferred steel material as it offers several benefits over galvanised steel. It offers the better formability of high strength steel. Additionally, ZINCALUME® steel protects the frame from corrosion and lasts upto four times longer than galvanised (Z275) steel in similar environmental conditions. Superior features such as safety, thermal efficiency and environment-friendly credentials make it a widely accepted steel product for construction. Due to the high strength of ZINCALUME® steel, the frames and trusses of SMARTBUILD® system don't twist or shrink. The walls are perfectly straight, which means doors don't jam, windows don't stick and cornices don't crack. Also the roofs don't leak because the trusses and frames are rigid. Thus, SMARTBUILD® system is precision engineered to out-perform any other method of construction.

The members are available in standard length. For easy erection, these are cut at site as per actual measurements and frames & trusses are assembled at site. Due to high strength & light weight members, it's very easy to assemble at site, requires minimum skill, less labor and minimum space. All the frames and trusses are made from high strength fasteners. These can be cladded with a variety of roof and wall profiles available in Lysaght® range.

SMARTBUILD® system is an advanced, light-weight steel framing technology. It brings with it several advantages such as speedy construction, superior quality, easy installation and low maintenance. SMARTBUILD® system is a well-established brand in Australia, South East Asia and China. It also offers unique and revolutionary trusses and frames that provide the inner strength that is vital for protecting and maintaining the structural integrity of a building and quality of construction of the roofing and wall cladding. Its versatility opens up a whole new world of opportunities in steel framed buildings. Durability, affordability, strength and stability in addition to its compatibility with traditional building methods of construction are the additional benefits of this extraordinary system.

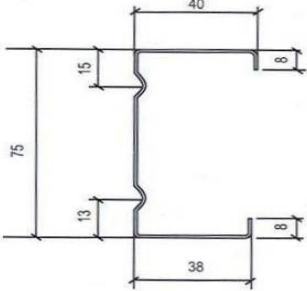
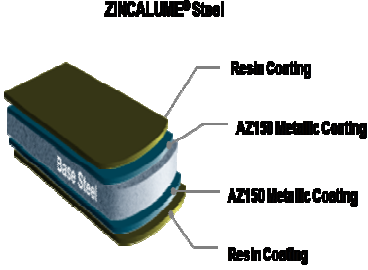
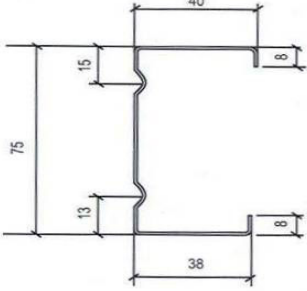
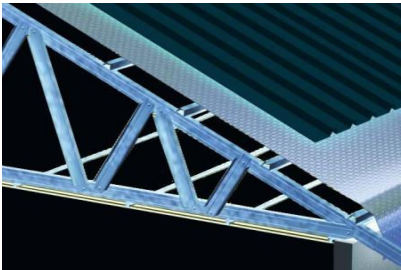
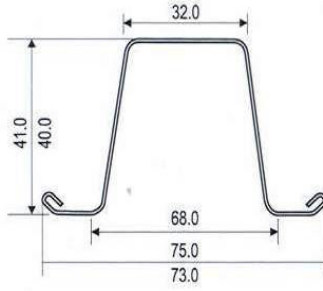
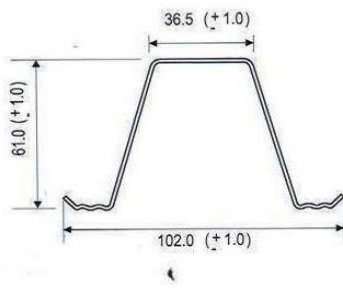
Base Steel: The steel base material of sheet shall manufactured from 0.45 mm (nominal) base metal thickness with minimum 550 MPa Yield Strength. The steel manufacturers test certificate for the chemical and mechanical properties of steel must be concerned authority prior to installation.

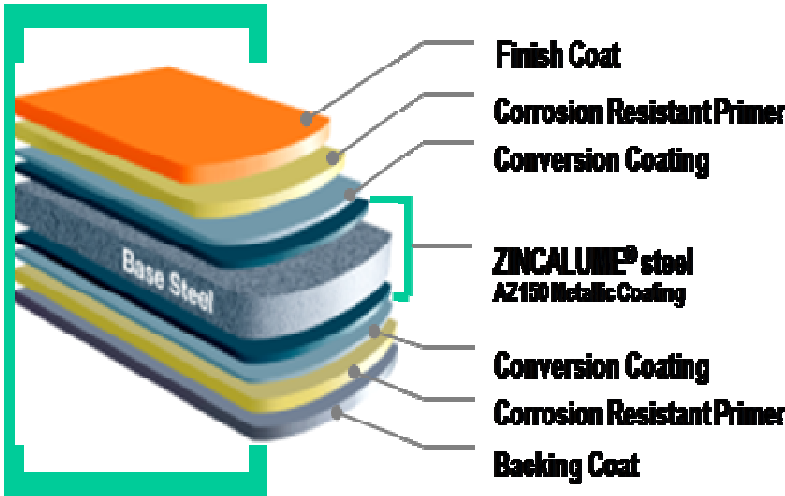
Metallic Coating: The sheets shall have a hot dip metallic Aluminium-Zinc alloy coating of **Aluminium (55%) & Zinc (45 %) with total mass coating of 150 gms/sq.mt on both sides as Zincalume AZ150 or equivalent coating as per AS 1397.**

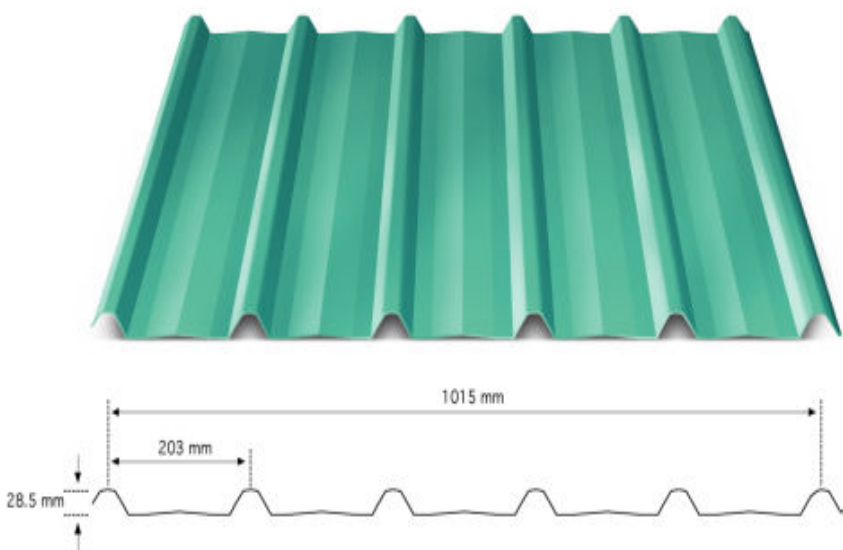
Color Coating: The coated sheets shall be factory painted and oven-baked conforming to AS/NZS 2728 Class 3, the total coating thickness of 35 µm (nominal) with super polyester Colorbond quality paint system of Tata BlueScope Steel make, comprising of nominal 20 µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5 µm primer coat on both surfaces of approved colour shade. The sheet shall have brand marking of the manufacturer giving product details on the back of the sheet at every 1 mtr c/c for confirming genuinity of the material.

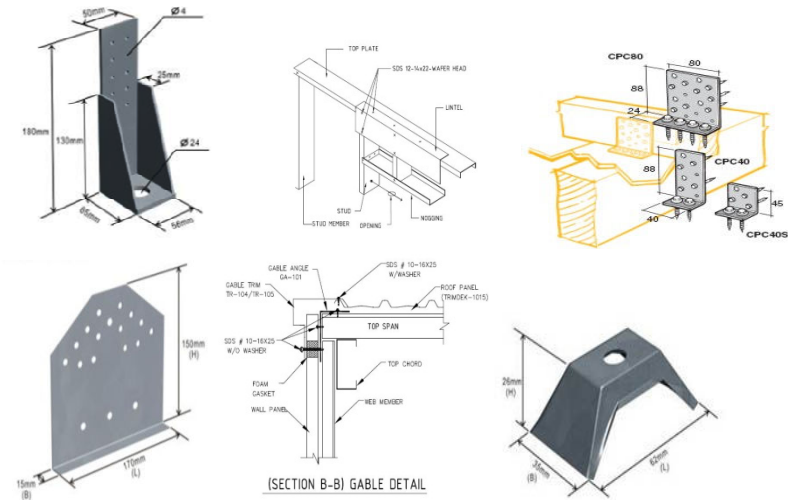

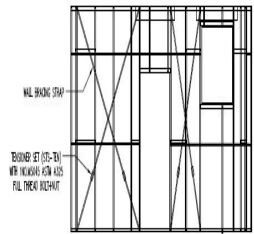
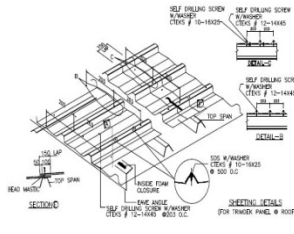

Section 2: Detailed Product specification Language

General : Supply of Light weight pre- engineered building for building design in accordance with AS/NZS 4600: 2005 cold form steel structures, Wind speed as per the IS 875 Part 3.

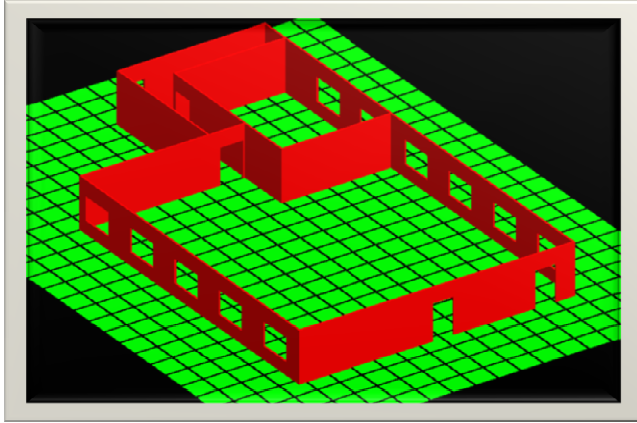
DESIGN STANDARDS	AS/NZS 1170.0 :2002 General principles, AS/NZS 1170.1 :2002 -permanent , imposed and other actions AS/NZS 1170.2 :2002 Wind action, AS 4055-2006 wind load for housing, AS/NZS 4600-2005 cold formed steel structures NASH standard : residential and low rise steel framing	
MATERIAL SPECIFICATIONS	WALL FRAMES	<p>C75 & C100 section CR G550: Zincalume® HIGH STRENGTH – 550MPa COLD FORMED ZINCALUME® – 150 gsm 0.75mm & 1mm thick</p>  
	TRUSS	<p>C75 & C100 section CR G550: Zincalume® Hat 40 & Hat 60 section CR 550: Zincalume® HIGH STRENGTH – 550MPa COLD FORMED ZINCALUME® – 150 gsm 0.75mm & 1mm thick</p>    

	CLADDING	<p>Manufactured from Zinalume® & Colorbond® steel</p> <p>HIGH STRENGTH – 550MPa</p> <p>COLORBOND®/ ZINCALUME® STEEL</p> <p>AZ 150 gsm , 0.50 mm TCT</p> <p>Bison/ Gypsum/ Mineral fibre board are optional substitutes.</p> 																																																																																																																					
	INNER WALL CLADDING	<p>Cement Particle Board</p> <p>High Strength 10 MM Board</p> <table border="1"> <thead> <tr> <th>I. Physical Properties</th><th>Results</th><th>Standards</th></tr> </thead> <tbody> <tr> <td>Flextural Strength</td><td></td><td>ASTM C1185</td></tr> <tr> <td>a. Flextural Strength (Along the Fibre)</td><td>14.0 N/mm²</td><td></td></tr> <tr> <td>b. Flextural Strength (Across the Fibre)</td><td>8.1 N/mm²</td><td></td></tr> <tr> <td>Modulus of Elasticity</td><td></td><td>ASTM C1185</td></tr> <tr> <td>a. Modulus of Elasticity (Along the Fibre)</td><td>8726.3 N/mm²</td><td></td></tr> <tr> <td>b. Modulus of Elasticity (Across the Fibre)</td><td>6557.2 N/mm²</td><td></td></tr> <tr> <td>Adhesion / Lamina (Bond) Strength, average</td><td>15 N/mm²</td><td>ASTM D 1037</td></tr> <tr> <td>Screw Withdrawl Strength</td><td></td><td>ASTM D 1037</td></tr> <tr> <td>a. Perpendicular to the Surface (Dry Condition)</td><td>1243.2 N</td><td></td></tr> <tr> <td>b. 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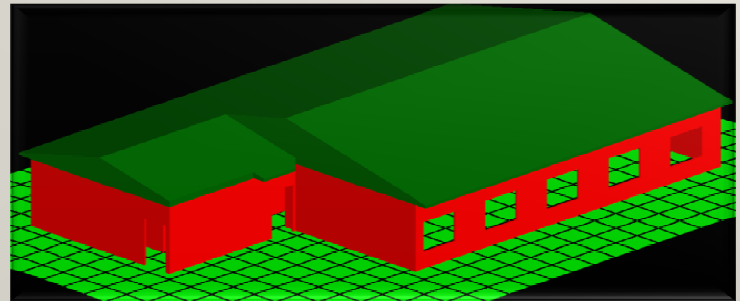
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ACCESSORIES	<p>Hold down Bracket , lintel angle, built up connecting plate, apex plate 1.5 mm thk, gable angle, tensioner set, Steel strap bracing, wall bracing, eave angle.</p>																																																																																																															

		 <p>Roof steel strap bracing - steel strap braces are manufactured from galvanised steel with zinc coating of 275 g/m² for corrosion resistance with minimum yield strength of 250 MPa.</p>  <p>Steel strap bracing</p>  
	FASTENERS	<p>Fasteners: Self Drilling Screw with nominal 40 micron zinc coated, Hex head, as per AS 3566-2002 Class 3 fasteners of approved make (Buildex or equivalent) with EPDM washer.</p> 
	TRIMS & FLASHING	<p>Flashings manufactured of Zinalume® & Colorbond steel :- Window flashing, door header flashing, jamba trim, base trim, peak trim, gable trim , ridge trim, l2 clip, l3 clip, l4 clip, l5 clip, l6 clip, l7 clip ,l8 clip, custom flashing 100, custom flashing 200, custom flashing 300, custom flashing 400, custom flashing 500, custom flashing600custom flashing 700,Gutter, Down pipe & bender foam gasket 20 mm thk, foam closure inside, foam closure outside.</p>
	Civil Foundation	<p>Depends on the level of land the minimum required foundation for this Smart build structure is through-out tie beam 200mm X 200mm.</p>
	Electrical	<p>Supply & Installation of electrical as per requirement– Make of Havels and Philips.</p>
	Plumbing	<p>Supply & installation of plumbing items as per requirement- Make of Hindware/Parriware/Cera.</p>
	Door & Window	<p>Supply of door & window of Alluminium make of Jindal/Hindalco.</p>
	Cost of	<p>The cost of the Smartbuild Build Structure depends on Design parameter,</p>

Construction	it starts from 1000 to 2000/sqft & depends upon the partitions & consumption of steel also depends on the size as the size decreases the cost increases and as the size increases the cost decreases it is vice versa to size. Early return on investment due to short lead time.
Social Benefits	It is totally green building and it is 100% recyclable so it is pollution free and having no any bad impact on nature.
Wind resistance	Wind resistance 345/450 mpa
Seismic resistance	High tolerance as light weight (zone iii to v)
Durability	More Durable & maintenance free for long life of 20 Yrs. to 25 Yrs.



Building 3d & Wall layout generated by TBSL



Initial Site Preparation with RCC Beam (by Customer or TBSL Solution Provider) :



Frame Fabrication & Erection :

EZYBUILD®



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BUILDING PRODUCTS

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Building Skeleton :

EZYBUILD®

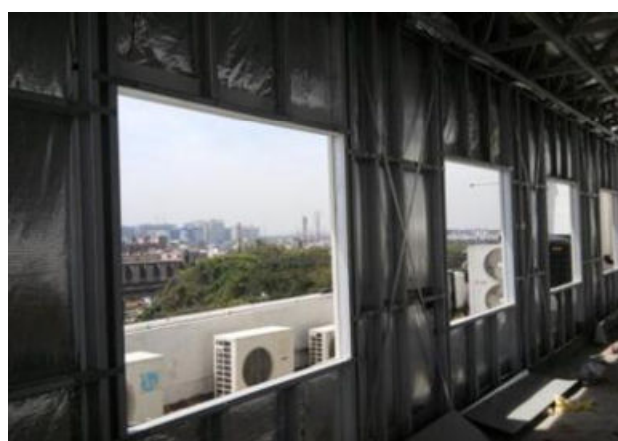


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Roof & Wall Sheet Cladding with Insulation :

EZYBUILD®



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Sheeting Works after completion :

EZYBUILD®



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Inside View – before fixing Interiors :

EZYBUILD[®]

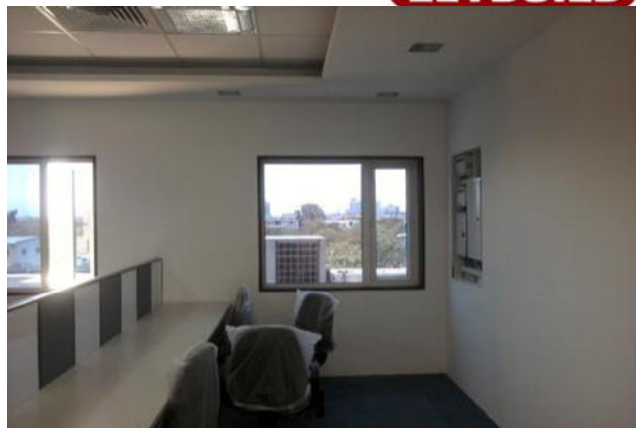
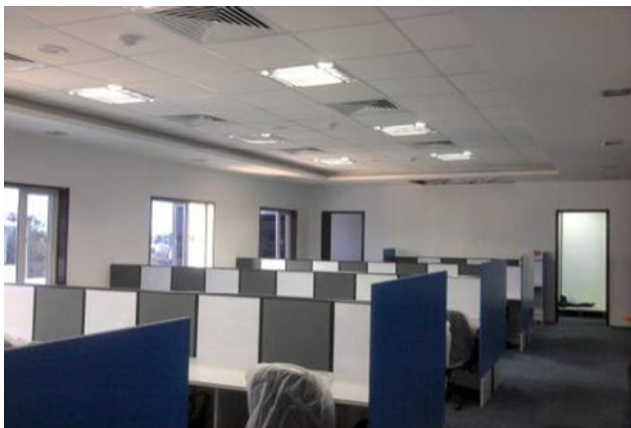


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Building after the completion of Interiors :

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