Resorts, Bhubaneshwar

Resorts

Design flexibility offers variety of truss shapes desired by upscale & elegant resorts.

Roof Tops

Versatile usage of material ensures covering up each unused space on terraces.

Notre Dame Acedamy, Patna

Farm House, Indore

Residential

Weekend homes concept are now a reality with assured & safe solutions.

Anganwadi, Puruia

Anganwadi

Ideal solution for infrastructure applications.

CP Aqua, Pondicherry

Fish Culture Sheds

ZINCALUME® steel members ensure durable & quick solution for large fish culture farms.

Poultry Farms

Agro businesses are now modern and equipped with state of the art infrastructure

Poultry farm, Chennai

Conventional VS EZYBUILD®

Design

With EZYBUILD® one can build variety of structures along with integration on existing ones

Timelines

The time from the start of construction work to completion

3 months to 2+ Year

4 weeks to 2 months

Construction Costs

Cost of construction for EZYBUILD® structures is upto 35% lesser compared to traditional ones

Maintenance

EZYBUILD® technology assures least maintenance

Green Solutions

EZYBUILD® solutions are reusable, recyclable and 100 % lead free

Flexibility

EZYBUILD® modular buildings are versatile in terms of expansion and relocation

EZYBUILD® Solutions are available through Authorised EZYBUILD® / LYSAGHT® Solutions Centers

Contact: +91 20 6621 8000
Email: ezybuild@tatabluescopesteel.com

Authorised EZYBUILD® Solutions Provider

TATA BLUESCOPE STEEL

Tata BlueScope Steel Ltd.
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The Metropolitan, Final Plot No. 27, Survey No. 21,
Wakdewadi, Shivaji Nagar, Pune - 411005. INDIA.
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BP/PM/0817/Savai

EZYBUILD®

SOLUTIONS

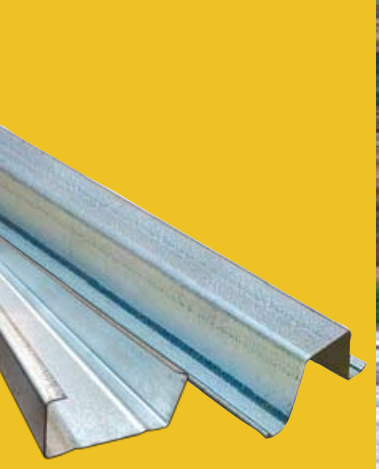
SMARTRUSS®

Trusted roof support solutions

Strong & Durable | Long Term Corrosion Resistance | Maintenance Free

Construction with Ease and Speed | Termite Free, Rot Free, Warp Free and Fire Resistant

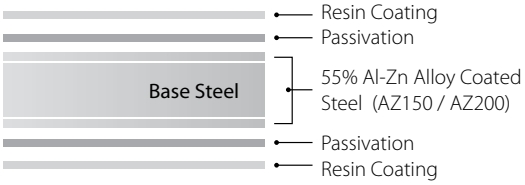
TATA BLUESCOPE STEEL



SMARTRUSS® solution from Tata BlueScope Steel is an advanced, lightweight framing technology for all your roof support solutions!

Anganwadi, Puruia

What makes SMARTRUSS® a Truly Smart Solution?



Cross Sectional View of ZINCALUME® steel

SMARTRUSS® members are made from ZINCALUME® steel which is zinc and aluminum alloy coated steel with AZ150 coating mass with yield strength of 550 MPa. On an average ZINCALUME® steel (AZ150 coating) lasts up to four times longer than galvanized (zinc coated Z275 coating) steel in similar environmental condition.

Advantage of SMARTRUSS®

Why SMARTRUSS®

- Fasteners system, safe to erect
- Easy and quick to install

- Light-weight, easy to handle and erect

- No painting required
- ZINCALUME® steel structural members last longer & give seamless construction

Why not Mild Steel

- Lesser safety during site fabrication
- Requires welding
- Needs skilled labour

- Heavy steel sections are difficult to handle and erect

- Requires painting to protect steel from corrosion
- Higher maintenance cost

Why not Timber

- Material inconsistency

- Affected by termites

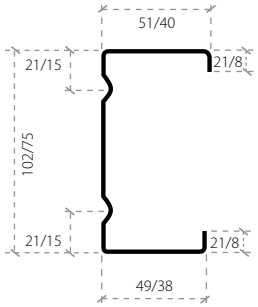
- Highly inflammable

SMARTRUSS®
Design Advantage

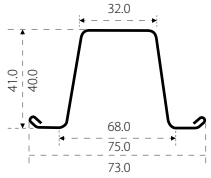
SMARTRUSS® system has been extensively tested in BlueScope Steel's Research and Development laboratory in Sydney, Australia, and is fully computer designed with SUPRACADD™ software linked to sophisticated Computer Aided Manufacturing, ensuring faster, accurate and consistent project delivery.

SMARTRUSS® designs conforms to established International Standards and Design Codes.

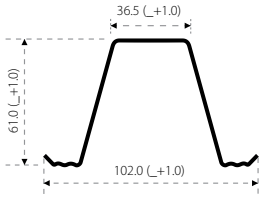
Unique Components



S100 / S75 Section



Top Span 40



Top Span 61

All dimensions are in mm.

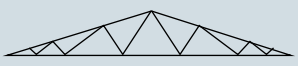
Technical Properties

Description	Name	Units	S75 x 0.75 Full Section	S75 x 1.0 Full Section	S100 x 1.0 Full Section
Area	A	mm^2	122.3	159.01	216
Moment of Inertia	Ixx	mm^2	112700	143109	362000
Moment of Inertia	Iyy	mm^2	23860	26467	71330
Modulus of Section	Zxx	mm^2	2998	3772.0	7102
Modulus of Section	Zyy	mm^2	879.3	1016.7	2070
Radius of Gyration	Rxx	mm	30.35	30.00	40.94
Radius of Gyration	Ryy	mm	13.96	12.9	18.17
Torsion Constant	J	mm^4	22.94	53.00	72.01
Warping Constant	Iw	mm^6	26300000	28827974	150300000
Shear Centre Co-ordinate	Yo	mm	1.072	1.827	1.185
Yield strength	fy	MPa	550	550	550
Design Strength in tension, compression and bending	f	MPa	425	425	472
Design strength in shear	fv	MPa	245	245	275

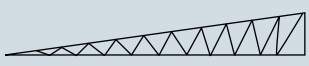
Various Roofing Options

Also compatible with other roofing options such as shingles etc.

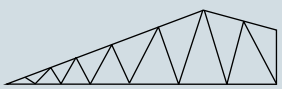
Types of Trusses



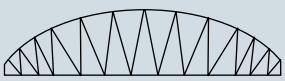
Symmetrical



Monoslope Truss



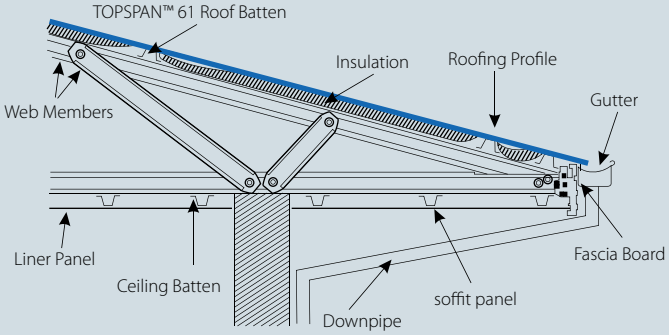
Truncated Truss



Radial Truss

Drawings are indicative only.

Cross section of SMARTRUSS® roofing solution



Smart Steps of Construction Process

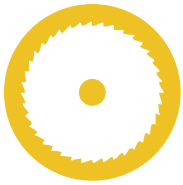
SMARTRUSS® solution components are light weight with high strength.

The solution is based on lean construction methodology which ensures:

- Speedy Construction
- Early Utilization
- Faster Returns

Designed with minimum fabrication tools

Drill Gun

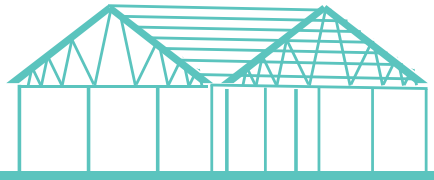


Rotary Disk Cutter

Hand Shearer

1 Using top and bottom chord, create the triangle frame of the truss

2 Install subsequent trusses over the truss template



3 Use drill gun to fasten the screw at the bottom chord and web members

4 Install L-Brackets to the beam and fix trusses to the L-Bracket using self tapping fasteners

5 Fix battens to the trusses with recommended spacing

6 Finished roof trusses are ready for roofing