



— A Unit of The Amar Enterprises —

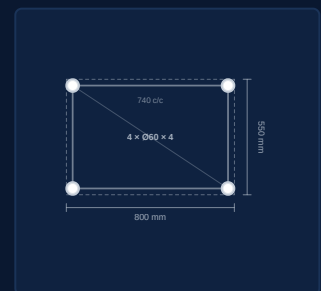
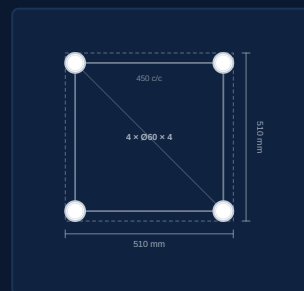
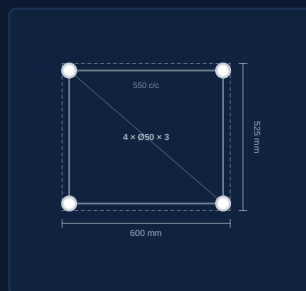
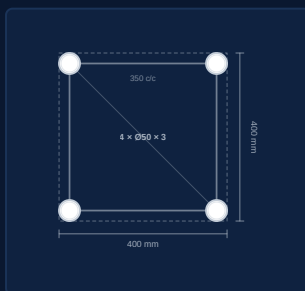
VARDAMAN

SAFETECH

Shaping Structures, Securing Lives

Product catalogue 2026

Aluminium truss profiles, truss systems and accessories. Fabricated in Udaipur with certified aluminium welding.



ABOUT US

Aluminium truss, made in our own workshop

Vardaman Safetech designs, fabricates and installs aluminium truss systems and aluminium structures. Every member is cut, welded and finished in our own workshop, then erected on site by our own crew. We are a unit of The Amar Enterprises, which has delivered fabrication, civil and electrical works since 2012.

5 truss profiles	18 accessories and fittings	6082-T6 structural aluminium tube	2012 group fabricating since
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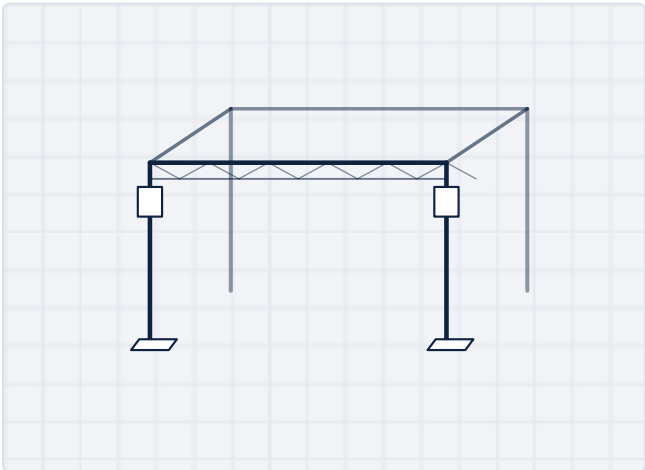
How an order runs

01 Requirement Share the span, height, load and use, or send your drawing.	02 Fabrication Manufactured with precision at our Udaipur Factory.	03 Quality check Every piece is inspected before it leaves the shop.	04 Erection Our crew delivers and installs it at your site.
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Who we work with

Event, sound and lighting companies, stage and exhibition builders, government and defence facilities, institutions and campuses, industrial and commercial buildings.

Certified aluminium welding Certified by UKAF CERT Limited, London. Certificates can be verified at ukafcert.org.uk .	ISO 3834-2 Quality requirements for fusion welding	ISO 15614-2 Qualified aluminium welding procedures	ISO 9606-2 Qualified aluminium welders
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A unit of The Amar Enterprises

The Amar Enterprises has delivered fabrication, civil and electrical works from Udaipur since 2012. Vardaman Safetech was launched in 2025 as the group's dedicated aluminium unit.

Group companies: The Amar Infrastructures (repair and maintenance) and Deep Infra and Construction Pvt Ltd (residential and institutional civil projects).

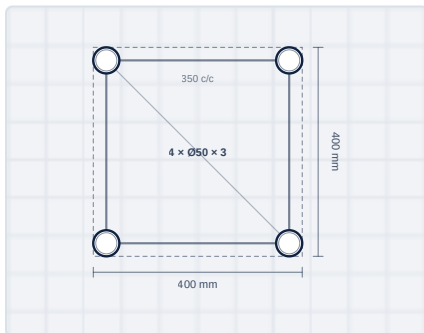
TRUSS PROFILES

All profiles at a glance

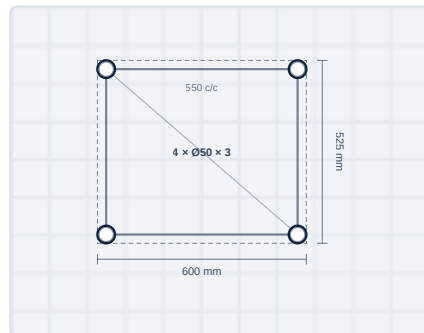
Specifications are taken from our engineering drawings. Cross-sections are drawn to scale.

PROFILE	SECTION	CHORD CENTRES	CHORDS (MM)	LENGTHS	MAIN USE
400 × 400	400 × 400 mm	350 × 350 mm	4 × Ø50 × 3	1 m, 2 m, 3 m	Pillars, goal posts and medium spans
600 × 525	600 × 525 mm	550 × 475 mm	4 × Ø50 × 3	1 m, 2 m, 3 m	Roof beams for box truss systems
500 × 500	510 × 510 mm	450 × 450 mm	4 × Ø60 × 4	3 m	Heavy pillars
800 × 550	800 × 550 mm	740 × 490 mm	4 × Ø60 × 4	2 m, 3 m	Main beams and lantern for large roofs
1100 × 650	1100 × 650 mm	—	On request	2 m	Heavy-duty beams for very long spans

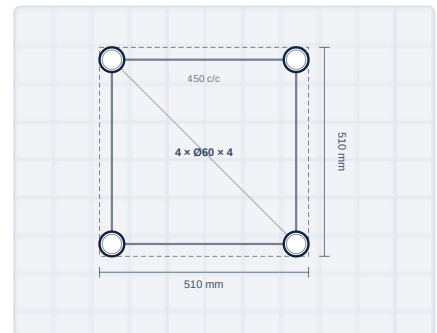
All profiles: Aluminium alloy 6082-T6 tube, welded in-house to ISO 3834-2. 50-series connectors for Ø50 chords, 60-series for Ø60 chords.



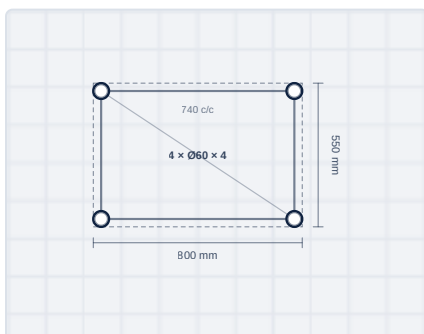
400 × 400



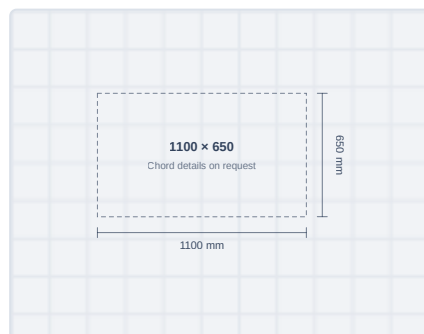
600 × 525



500 × 500

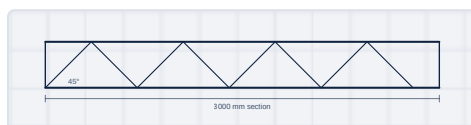
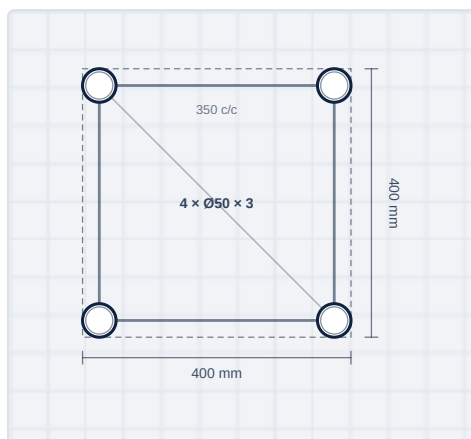


800 × 550



1100 × 650

TRUSS PROFILES



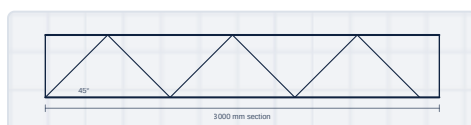
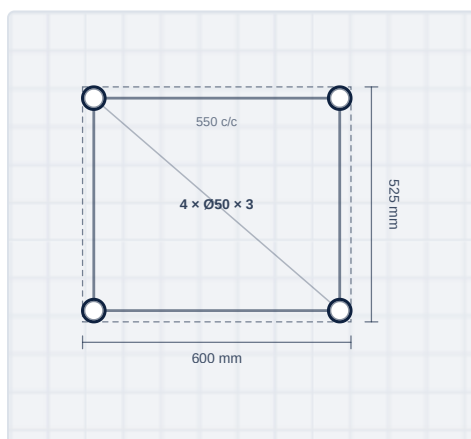
PILLARS, GOAL POSTS AND MEDIUM SPANS

400 × 400 box truss

Our most used profile. A square box section with four Ø50 mm chords, used as the pillar in box truss roof systems, for goal posts and arches, and in the 20 ft circle truss.

SECTION	400 × 400 mm
CHORD CENTRES	350 × 350 mm
MAIN CHORDS	4 × Ø50 × 3 mm
BRACING	Ø40 × 3 mm diagonals at 45°, Ø25 × 3 mm secondary members
LENGTHS	1 m, 2 m, 3 m
CONNECTORS	50-series: pipe connector (spigot), bullet pins, R-pins
MATERIAL	Aluminium alloy 6082-T6 tube

Load chart: available on request from sales@vardamansafetech.com. Safe loads depend on span, supports and rigging.



ROOF BEAMS FOR BOX TRUSS SYSTEMS

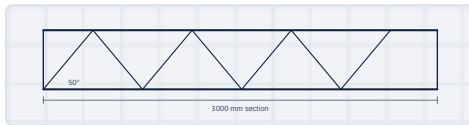
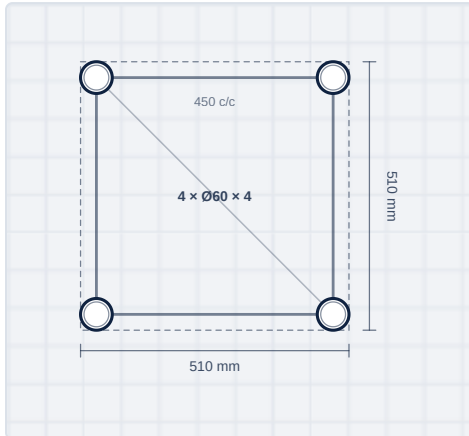
600 × 525 box truss

A deeper rectangular section for the roof beams of box truss systems. It runs on 400 × 400 pillars through sleeve blocks sized to its 550 × 475 mm chord centres.

SECTION	600 × 525 mm
CHORD CENTRES	550 × 475 mm
MAIN CHORDS	4 × Ø50 × 3 mm
BRACING	Ø40 × 3 mm and Ø30 × 3 mm
LENGTHS	1 m, 2 m, 3 m
CONNECTORS	50-series: pipe connector (spigot), bullet pins, R-pins
MATERIAL	Aluminium alloy 6082-T6 tube

Load chart: available on request from sales@vardamansafetech.com. Safe loads depend on span, supports and rigging.

TRUSS PROFILES



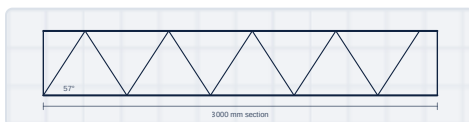
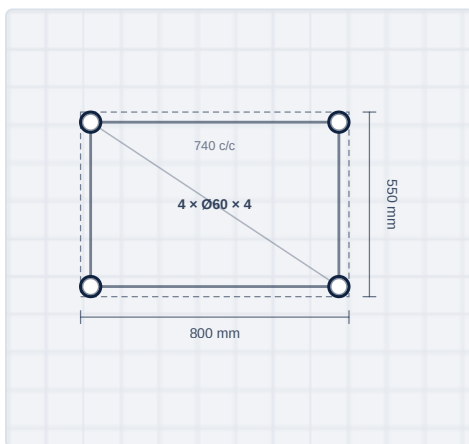
HEAVY PILLARS

500 × 500 tower truss

A heavier tower section with Ø60 × 4 mm chords (510 mm over tube). It carries 800 × 550 beams in our heavy roof systems.

SECTION	510 × 510 mm
CHORD CENTRES	450 × 450 mm
MAIN CHORDS	4 × Ø60 × 4 mm
BRACING	Ø40 × 3 mm and Ø30 × 3 mm, diagonals at 50°
LENGTHS	3 m
CONNECTORS	60-series: pipe connector 60, spigot 60, bullet pin 60
MATERIAL	Aluminium alloy 6082-T6 tube

Load chart: available on request from sales@vardamansafetech.com. Safe loads depend on span, supports and rigging.



MAIN BEAMS AND LANTERN FOR LARGE ROOFS

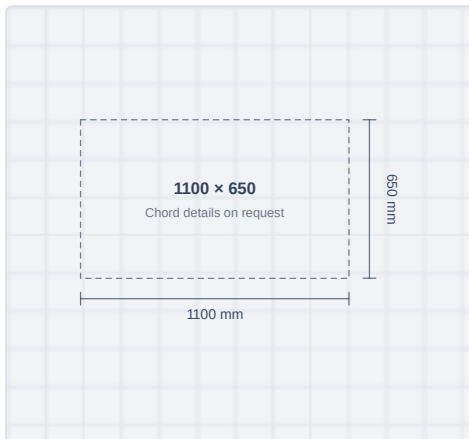
800 × 550 heavy truss

Our heavy beam profile, with four Ø60 × 4 mm main tubes. Used for the main beams and the raised lantern section of large roof systems on 500 × 500 pillars.

SECTION	800 × 550 mm
CHORD CENTRES	740 × 490 mm
MAIN CHORDS	4 × Ø60 × 4 mm
BRACING	Ø50 × 3 mm and Ø30 × 3 mm, diagonals at 57° and 67°
LENGTHS	2 m, 3 m
CONNECTORS	60-series: pipe connector 60, spigot 60, bullet pin 60
MATERIAL	Aluminium alloy 6082-T6 tube

Load chart: available on request from sales@vardamansafetech.com. Safe loads depend on span, supports and rigging.

TRUSS PROFILES



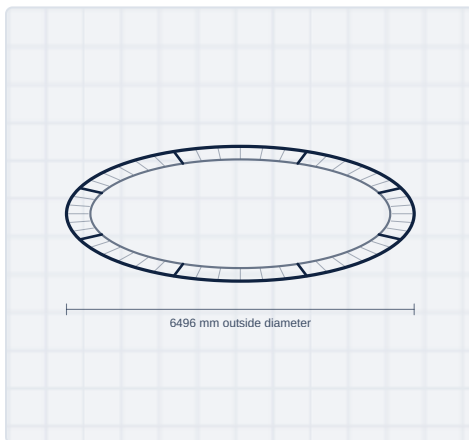
HEAVY-DUTY BEAMS FOR VERY LONG SPANS

1100 × 650 heavy-duty truss

Our largest section, built around our 60-series connectors (pipe connector 60, spigot 60 and bullet pin 60) for main beams over very long spans.

SECTION	1100 × 650 mm
MAIN CHORDS	On request
BRACING	Diagonals at 65° and 75°
LENGTHS	2 m
CONNECTORS	60-series: pipe connector 60, spigot 60, bullet pin 60
MATERIAL	Aluminium alloy 6082-T6 tube

Load chart: available on request from sales@vardamansafetech.com. Safe loads depend on span, supports and rigging.



SPECIAL STRUCTURE

Circle truss, 20 ft

A full ring in 400 × 400 box truss, built from eight rolled segments joined with spigots.

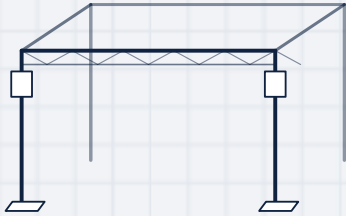
CENTRELINE DIAMETER	6096 mm (20 ft)
OUTSIDE DIAMETER	6496 mm
INSIDE DIAMETER	5696 mm
SEGMENTS	8 at 45°
SECTION	400 × 400 mm, chords at 350 mm centres
CHORDS / BRACING	Ø50 × 3 mm / Ø40 × 3 mm
JOINTS	8 joints, 4 spigots each

Load chart: not yet load-rated. Capacity must be confirmed by a qualified engineer before use.

TRUSS SYSTEMS

Complete structures, ready to rig

Built to your size from our profiles, sleeve blocks, top plates and connectors.

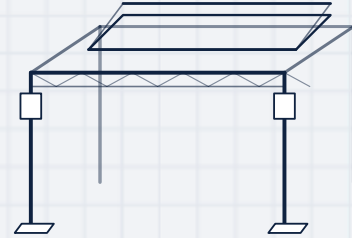


Box truss roof system

600 × 525 roof beams on 400 × 400 pillars, raised on aluminium sleeve blocks with top plates and rollers.

- Beams: 600 × 525
- Pillars: 400 × 400
- Sleeve blocks: aluminium, 4 per roof

Recent systems: 60 × 40 ft and 60 × 60 ft roofs on 30 ft pillars.



Heavy roof system with lantern

800 × 550 main beams and lantern on 500 × 500 pillars, with MS sleeve blocks, for large stages and venues.

- Beams and lantern: 800 × 550
- Pillars: 500 × 500
- Sleeve blocks: MS, 4 per roof

Recent system: 60 × 60 ft roof on 30 ft pillars.



Goal post

A 400 × 400 beam on two 400 × 400 pillars, for entrance gates, banners, lighting and screens.

- Beam and pillars: 400 × 400
- Sleeve blocks: aluminium, 2 per goal post

Recent system: 20 ft span on 20 ft pillars.



Circle truss

A 20 ft (6096 mm) ring in 400 × 400 box truss, built from 8 rolled segments joined with spigots.

- Section: 400 × 400
- 8 segments at 45°
- Outside diameter 6496 mm

Used for centre-stage lighting rings and hanging displays.

ACCESSORIES

Accessories and fittings

Every fitting is made to its own drawing and fits our truss.



CONNECTORS, 50-SERIES

Pipe connector (spigot)

Internal spigot that joins two truss sections chord to chord. One per chord, four per joint.

Collar	Ø50 mm
Spigot	Ø45 mm
Overall length	85 mm
Insert	34.5 mm each side



CONNECTORS, 50-SERIES

Spigot 40

Spigot connector for our 50-series truss, fixed with bullet pins.

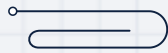


CONNECTORS, 50-SERIES

Bullet pin

Tapered pin that locks the spigot into the chord.

Length	70 mm
Taper	2°



CONNECTORS, 50-SERIES

R-pin

Spring safety clip that stops the bullet pin working loose.



CONNECTORS, 60-SERIES

Pipe connector 60

Spigot connector for Ø60 mm chords.

Chord	Ø60 mm
Overall length	130 mm

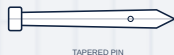


CONNECTORS, 60-SERIES

Spigot 60

Spigot for the 60-series heavy profiles.

Overall length	110 mm
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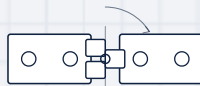


CONNECTORS, 60-SERIES

Bullet pin 60

Tapered locking pin for 60-series spigots.

Length	90 mm
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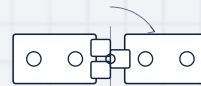


HINGES AND CORNERS

Hinge (male)

One half of a truss hinge, fitted to the end of a section.

Hinge pin	Ø16 mm
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HINGES AND CORNERS

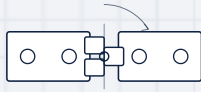
Hinge (female)

The matching half for the male hinge.

Hinge pin	Ø16 mm
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ACCESSORIES

Accessories and fittings (continued)



HINGES AND CORNERS

Hinge set

Male and female halves with pin, for arches and pitched roofs.

Hinge pin **Ø16 mm**



HINGES AND CORNERS

Corner block connectors

Join truss at corners, T-junctions and cross junctions.



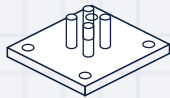
Ø42.2 PIPE

HINGES AND CORNERS

Support pipe connector

Connector for support pipes fixed to the truss.

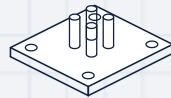
Pipe **Ø42.2 × 3 mm**



TOWER AND ROOF HARDWARE

Base plate 400 × 400

Footings for 400 × 400 towers. Spreads the load and gives a level base.



TOWER AND ROOF HARDWARE

Base plate with connector

Base plate supplied with the truss connector already fitted.



1100 mm

TOWER AND ROOF HARDWARE

Top plate assembly 400 × 400

Tower head with pipe rollers, for lifting the roof on 400 × 400 pillars.

Frame **C-channel 100 × 50 × 10, square tube 50 × 50 × 5**

Length **1100 mm**

Rollers **Pipe rollers on roller pins**



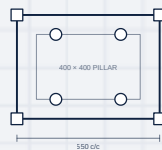
100 mm

TOWER AND ROOF HARDWARE

Roller for top plate

Replacement roller for the top plate assembly.

Length **100 mm**



400 × 400 PILLAR

550 c/c

TOWER AND ROOF HARDWARE

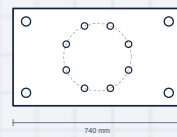
Sleeve block 400 × 400

Slides up the 400 × 400 pillar and carries the 600 × 525 beam. Aluminium or MS.

Frame **Square tube 50 × 50 × 5, flat bar 125 × 10**

Beam centres **550 × 475 mm**

Material **Aluminium or MS**



740 mm

TOWER AND ROOF HARDWARE

Master plate

Heavy junction plate sized to the 800 × 550 profile, with dowel location.

Plate **740 × 550 mm**

Location **2 × Ø12 mm dowels**



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VARDAMAN SAFETECH

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Send us your span, stage or drawing.

We will come back with a solution, a quote and the load chart for your layout.

WORKSHOP AND OFFICE

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