

Jazari
Steel Pvt Ltd.

JAZARI ROOFING SOLUTIONS

STANDING SEAM LOCK ROOFING

MAKE YOUR ROOF 100% LEAK PROOF



profile



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CONTENT



STANDING SEAM LOCK



BENEFITS



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PAINT



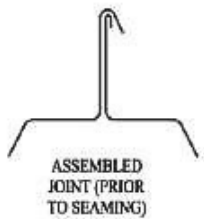
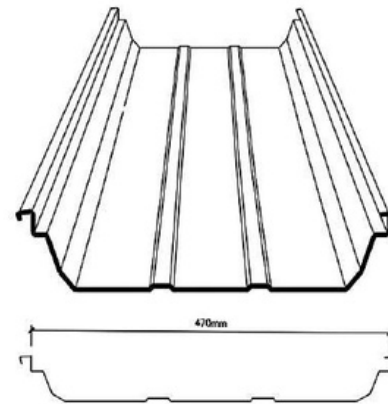
JAZARI COMPLETED PROJECTS



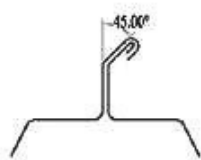
STANDING SEAM LOCKING SYSTEM

A standing seam metal roof is constructed of interlocked metal panels that run from the ridge of the roof to the eave. Standing seam roofs have been proven to be an excellent watertight, economic, and high-performance roofing system.

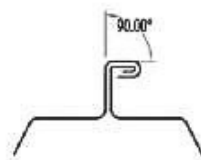
A next-generation metal roofing solution engineered to deliver maximum strength, leak-proof reliability, and clean architectural aesthetics.



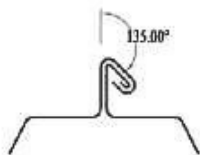
ASSEMBLED
JOINT (PRIOR
TO SEAMING)



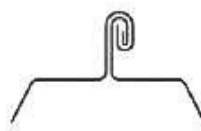
1ST STAND



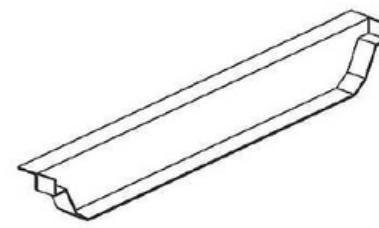
2ND STAND



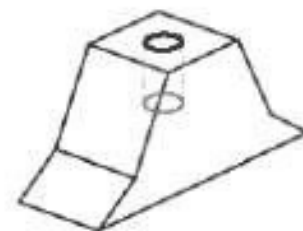
3RD STAND



4TH STAND
COMPLETE
DOUBLE LOCK
SEAM



OUTSIDE METAL CLOSURE



INSIDE RUBBER CLOSURE

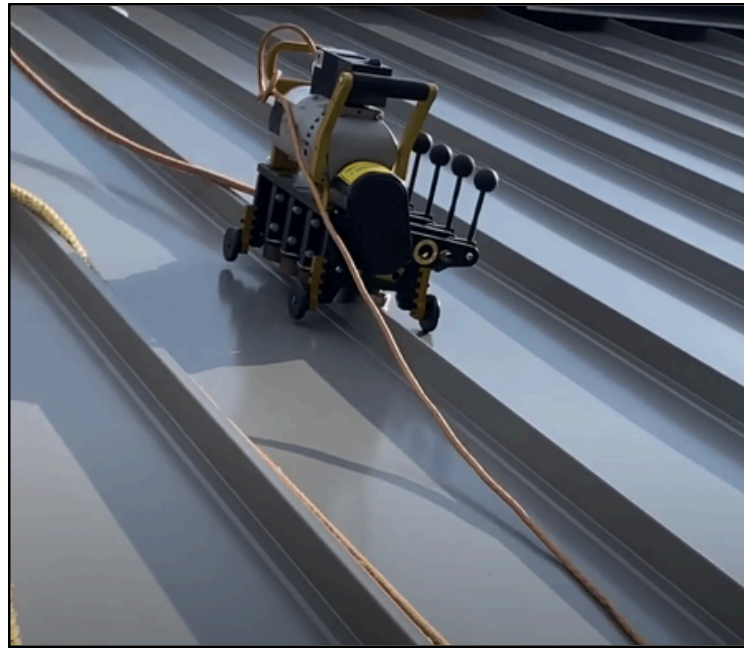


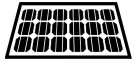


PRECISION INSTALLATION WITH SEAMER MACHINE

Our advanced seamer machine locks panels seamlessly without damaging the sheet, creating a tight, uniform seal with precise pressure.

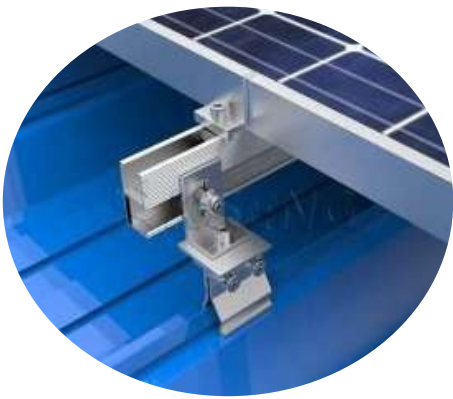
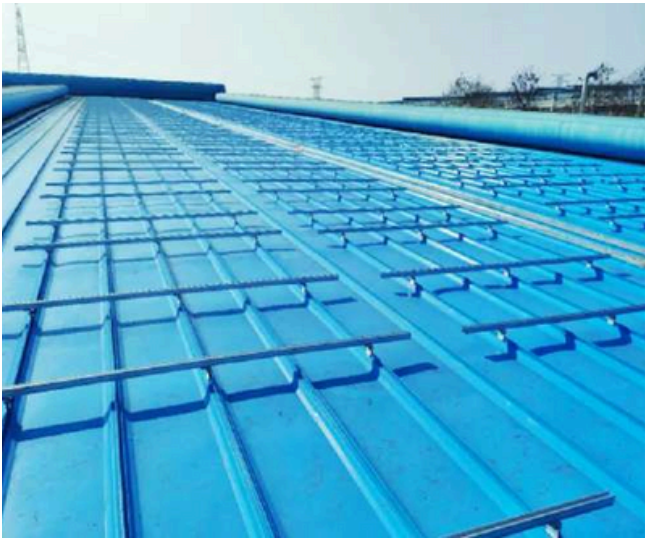
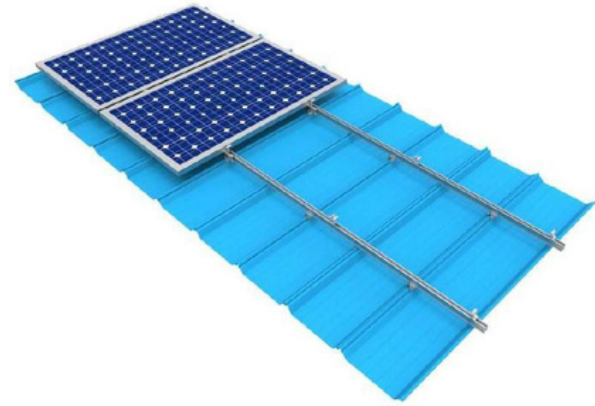
- ✓ No manual errors
- ✓ Consistent seal along every seam
- Enhanced leak resistance and wind durability





SOLAR PANEL ATTACHMENT

"Standing Seam Lock Roofing is the ideal roofing system for solar panel installation, allowing direct, non-penetrating attachment for maximum durability and performance."





BENIFITS OF STANDING SEAM LOCK ROOFING

- ✓ **No** Exposed Screws.
- ✓ **No** Screw Holes in Sheets.
- ✓ Designed to withstand windstorms up to **220 km/h.**
- ✓ **100%** Leak proof design.
- ✓ Flexible to allow thermal movement (expansion/contraction) of the roof sheet.
- ✓ Single full-length sheet with no end-lap joints to prevent leakage.
- ✓ Sleek, modern Aesthetic profile.



SSS INSULATION

GLASSWOOL INSULATION:

GLASSWOOL INSULATION FOR STANDING SEAM ROOFS

Used under standing seam lock roofing, glasswool provides excellent thermal and acoustic insulation. Available in 50mm, 75mm, and 100mm thicknesses, with densities from 12kg/m³ to 48kg/m³, it offers flexibility for various building needs. Higher densities enhance heat resistance and sound absorption.



BENEFITS:

- ✓ Excellent thermal insulation – helps maintain indoor temperature
- ✓ Good acoustic performance – reduces external noise
- ✓ Lightweight & easy to install – ideal under standing seam roofs
- ✓ Cost-effective and versatile – suitable for residential, commercial & industrial projects

Best suited for standing seam lock roofing systems where weight, performance, and budget all matter.

ROCKWOOL INSULATION:

Ideal for high-performance roofing systems, Rockwool insulation is used under standing seam lock roofs for superior fire safety and thermal efficiency. Available in 50mm (commonly) and 100mm (rarely) thicknesses, with high densities of 50kg/m³ and 60kg/m³, it delivers excellent fire resistance, sound insulation, and thermal performance.



BENEFITS:

Fire-resistant (non-combustible – ideal for safety-critical buildings)

- ✓ Superior thermal insulation – helps reduce energy costs
- ✓ Excellent sound absorption – ideal for industrial & commercial spaces
- ✓ Water-repellent and long-lasting

Perfect for use under standing seam lock roofing systems – where performance meets protection.

GLASSWOOL INSULATION:

- ✓ Lightweight – easier to handle & install.
- ✓ Cost-effective – great for budget-sensitive projects.
- ✓ Thermal & Acoustic Performance – suitable for standard commercial & residential buildings.
- ✓ Density: 12kg/m³ to 48kg/m³
- ✓ Thickness: 50mm, 75mm, 100mm

Best for: Projects where weight and cost are key considerations.

ROCKWOOL INSULATION:

- ✓ Fire-resistant (non-combustible) – excellent safety for industrial & high-risk areas
- ✓ High Density & Durability – 50kg/m³ & 60kg/m³
- ✓ Superior Sound & Heat Resistance
- ✓ Water-repellent and long-lasting
- ✓ Thickness: 50mm (common), 100mm (optional)

Best for: High-performance buildings requiring fire safety, durability, and maximum insulation.





QUALITY

PPGI (PRE-PAINTED GALVANIZED IRON SHEET):

Pre-Painted Galvanized Iron (PPGI) sheets are widely used in modern roofing systems, offering durability, aesthetics, and long-term performance.

✓ Thickness Options:

- ◆ 0.50mm
- ◆ 0.55mm
- ◆ 0.60mm
- ◆ 0.70mm



🔧 Technical Specifications:

- Base Metal: Galvanized steel (usually 120 GSM – G90 zinc coating)
- Top Coating: Polyester / SMP / PVDF (based on project requirements)
- Paint Thickness: 18–20 microns (top), 5–10 microns (back coat)
- Tensile Strength: 240–550 MPa (depends on grade)
- Coil Width: 1200mm
- Yield Strength: Typically 340–550 MPa for standing seam applications

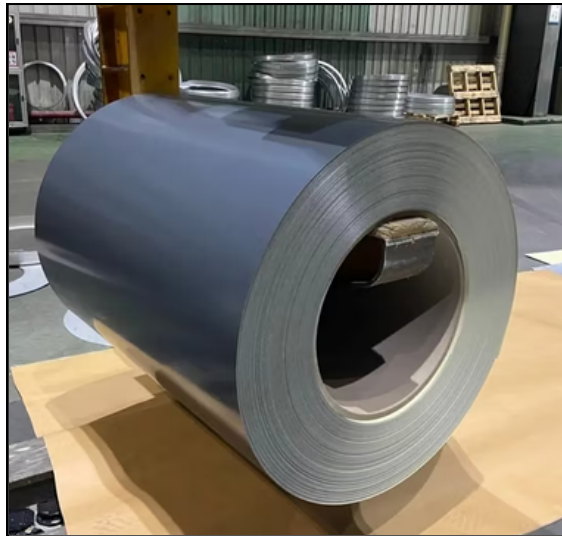
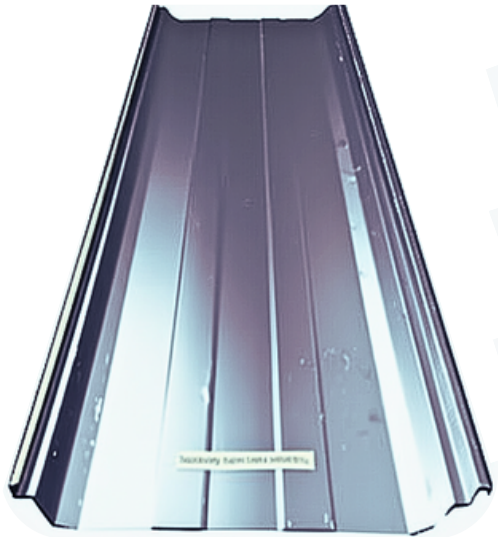
PPGL (PRE-PAINTED GALVALUME SHEET):

PPGL Sheets for Standing Seam Lock Roofing

Pre-Painted Galvalume (PPGL) sheets are a premium alternative to PPGI, offering enhanced corrosion resistance and longer life — ideal for demanding roofing environments.

✓ Available Thicknesses:

- ◆ 0.50mm
- ◆ 0.55mm
- ◆ 0.60mm
- ◆ 0.70mm



🔧 Technical Specifications:

- Base Metal: Galvalume steel (typically 55% aluminum, 43.5% zinc, 1.5% silicon coating)
- Top Coating: Polyester / SMP / PVDF (based on project needs)
- Paint Thickness: Top coat: 50–60 microns | Back coat: 5–10 microns
- Coating Weight: AZ-150 (150 gsm) is standard
- Tensile Strength: 240–550 MPa
- Yield Strength: Typically 340–550 MPa

Feature	PPGI (Pre-Painted Galvanized Iron)	PPGL (Pre-Painted Galvalume)
Base Metal	Galvanized Iron (Zinc-coated steel)	Galvalume (Al-Zn alloy: 55% Aluminum, 43.5% Zinc, 1.5% Silicon)
Top Side Coating	18–20 microns	50–60 microns
Corrosion Resistance	Good (suitable for standard environments)	Excellent (ideal for coastal and industrial conditions)
Heat & Rust Resistance	Moderate	High (better performance in harsh weather)
Durability	5–10 years	10–20 years
Surface Appearance	Glossy, smooth	Matte or metallic
Available Thicknesses	0.50 mm, 0.55 mm, 0.60 mm, 0.70 mm	0.50 mm, 0.55 mm, 0.60 mm, 0.70 mm
Cost	Economical	Slightly higher
Recommended Usage	Residential roofing, fencing, partitions	Coastal areas, factories, humid or chemical-prone sites



PROCESS

Standing Seam Lock Roofing Panel – Complete Manufacturing Process

1. Raw Coil Selection (Starting Point)

The process starts with a *pre-painted Galvalume or GI steel coil*.

The standard *width is 1200 mm*.

The thickness can be 0.45 mm, 0.5 mm, or 0.6 mm depending on project requirements.

2. Slitting (Cutting the Coil into Narrower Strips)

The coil is passed through a *Slitting Machine*.

It is cut *from the center*, creating two equal strips.

Each strip ends up being approximately *600 mm wide*.

This step is important so the strip can fit properly into the roll forming machine.

3. Decoiling (Feeding the Coil into the Machine)

Each 600 mm wide strip is loaded onto a Decoiler

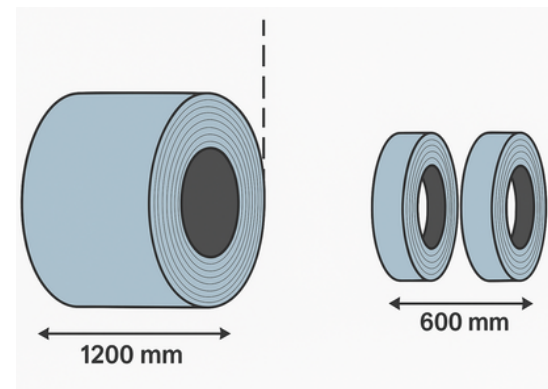
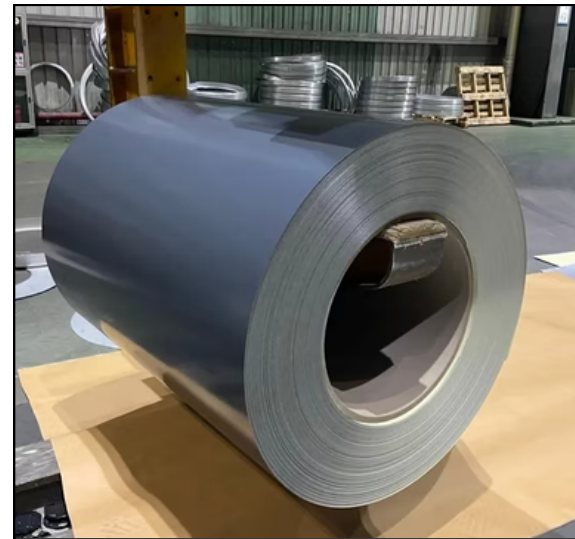
The decoiler unwinds and straightens the coil, making it easier to feed into the forming machine.

4. Roll Forming Through the Standing Seam Panel Machine

The coil is now fed into a *Standing Seam Roll Forming Machine*

The machine uses a series of rollers to gradually form the metal into the desired profile*.

It *creates folds (seams) on both sides* of the panel which will later be locked together.



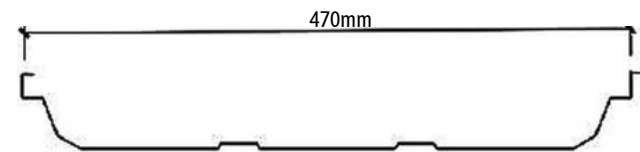
5. Final Panel Dimensions

When the sheet comes out of the roll forming machine:

The final panel width is approximately *470 mm*

The panel has *raised standing seams* on both sides that are designed to interlock.

Panel length is set based on the building/project requirement (cut-to-length).



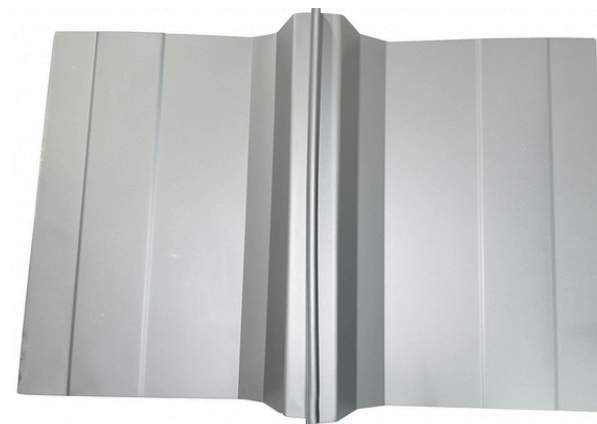
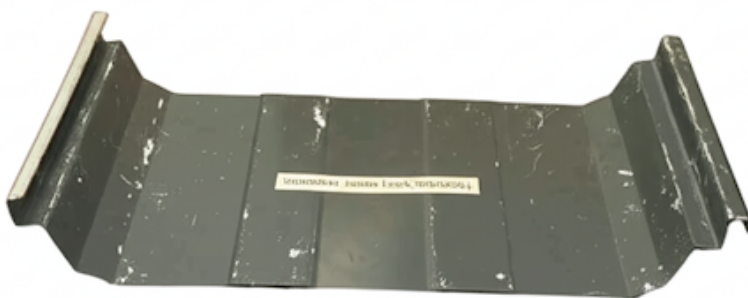
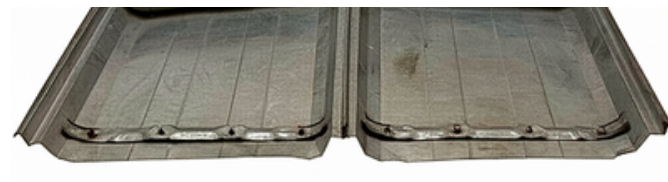
6. Locking and Seaming On-Site

On-site, the panels are *placed side by side* and overlapped using their seam edges.

Then a *Seaming Machine (manual or electric)* is used to tightly *lock the seams together*.

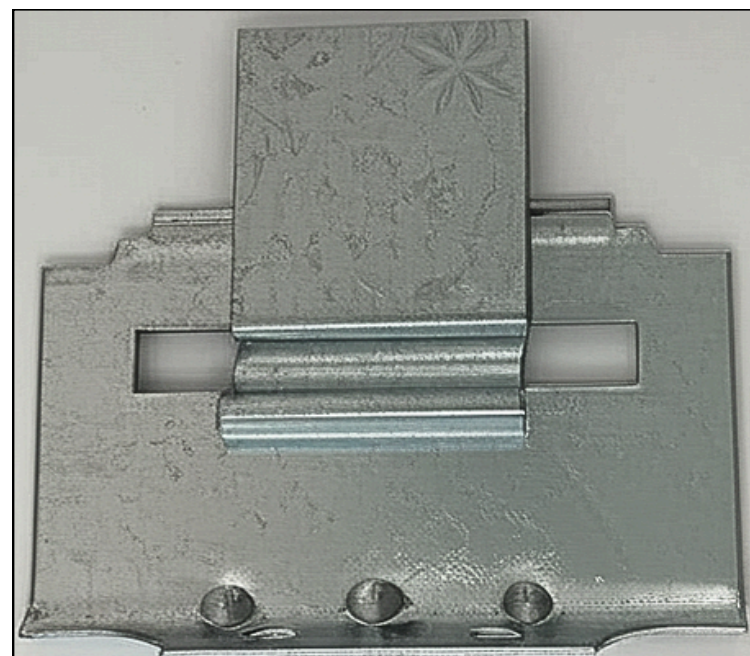
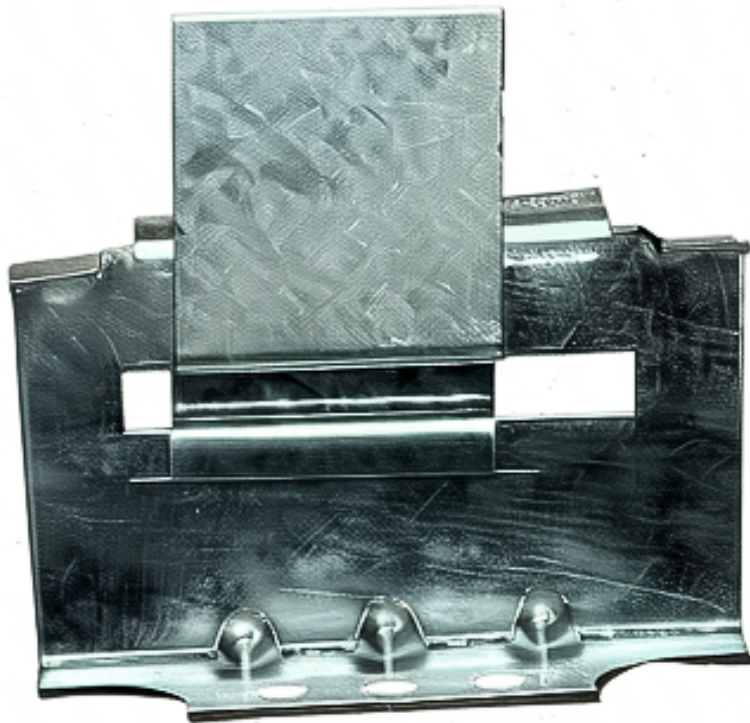
This lock creates a *watertight, airtight, and secure connection*.

The result is a very strong and weather-resistant roof system.



Securing the Clamp to the Purlin: The clamp is first placed on top of a purlin (a horizontal beam or support in the roof structure). The three holes at the bottom of the clamp are then used to attach it to the purlin with self-drilled screws. These special screws drill their own hole, making the installation fast and efficient.

Locking the Clamp with the Roof Panel: The top, bent portion of the clamp is specifically designed to engage with a standing seam lock. In standing seam roofing, the edges of the metal panels have a raised, vertical profile (the standing seam). When two panels are joined, their seams are crimped or locked together. This clamp's design allows it to securely grip onto this locked seam, holding the roof panel in place.





PAINT

- ✓ **PVDF-COATING:** Polyvinylidene fluoride coating
- ✓ **PU-COATING:** polyurethane coating
- ✓ **PE-COATING:** Polyethylene coating
- ✓ **HDP-COATING:** High durability polyester coating

What is AZ150 ?

AZ = Aluminum-Zinc alloy coating

150 = Coating mass of **150 g/m²** (grams per square meter) total (both sides)

This coating typically consists of:

55% Aluminum

43.5% Zinc

1.5% Silicon



JAZARI COMPLETED PROJECTS



ISLAMABAD CLUB



Multi-Purpose Hall
PAF Base Bholari (HRL)



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NATHIAGALI DOUBLETREE BY HILTON



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