



Exclusively by

LUXR®

METAL SHINGLES

QUICK REFERENCE

Installation Overview

Architectural Metal Shingles

Timeless Design. Lasting Performance.

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About This Document

This Quick Reference Installation Overview introduces installers, dealers, and contractors to the LUXR® Architectural Metal Shingle system. It covers the product, the system components, the tools required, and the general installation approach so that you can prepare your crew, your jobsite, and your customer for a LUXR installation.

DETAILED STEP-BY-STEP INSTRUCTIONS COMING IN V2

The full LUXR Installation Manual including detailed step-by-step installation, all panel-end forming dimensions, valley taper specifications, certified wind-rating fastener schedules, and complete penetration-point flashing details is being finalized by the LUXR engineering team and will be published as the LUXR Installation Manual v2.

Safety First

- Always use appropriate safety and fall restraint equipment, and wear soft rubber-soled shoes. Soft soles grip the panel surface and protect the finish. The product may be slippery, especially when wet or dusty.
- Follow all governmental safety guidelines, including OSHA and Workman's Compensation requirements.
- Be aware of surroundings at all times: skylights, roof edges, electric wires, and other site hazards. Block off the area directly below the work zone to keep people, children, and pets clear.

Dissimilar Metals

Do not use accessories containing copper, aluminum, or lead with the LUXR metal roof system. Dissimilar metals are incompatible and may cause panel failure.

Codes

This document does not substitute for local or national building codes. Always follow local construction practices, especially where unique climatic conditions apply.

1. Product Overview

LUXR® Architectural Metal Shingles is a premium luxury metal shingle system engineered to combine the look of an architectural shingle with the strength, fire resistance, and longevity of metal. LUXR is built as one product, perfected a single metal shingle system available in three architectural textured colors at launch.

Panel Specifications

LENGTH	40"
WIDTH	12"
MATERIAL	26 gauge steel

Panel SKUs

PRODUCT ID	DESCRIPTION
LUTMB	LUXR metal shingle, textured matte black -15 per box (50sqf per box)
LUTBS	LUXR metal shingle, textured burnished slate -15 per box (50sqf per box)
LUTCH	LUXR metal shingle, textured charcoal -15 per box (50sqf per box)

Ridge / Hip Cap SKUs

PRODUCT ID	DESCRIPTION
LURCTMB	LUXR ridge cap, textured matte black -12" coverage each (10 pcs per box)
LURCTBS	LUXR ridge cap, textured burnished slate-12" coverage each (10 pcs per box)
LURCTCH	LUXR ridge cap, textured charcoal -12" coverage each (10 pcs per box)

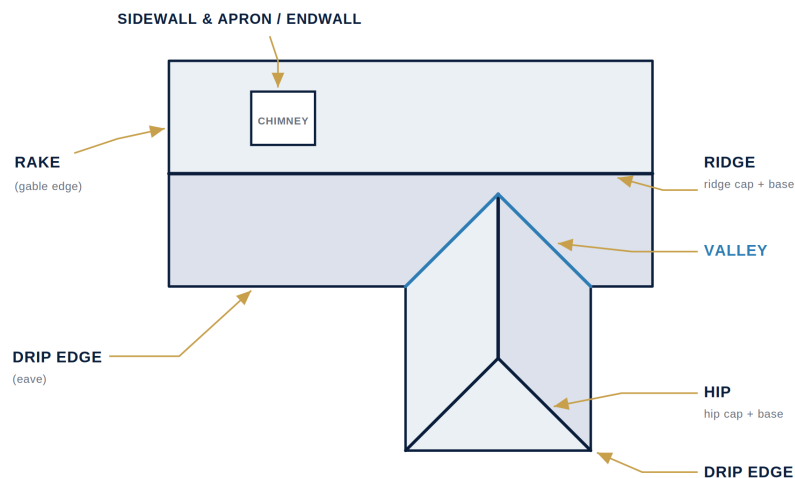
RIDGE CAP DIMENSIONS — 12x12
STORAGE <i>Care should be taken to store LUXR panels and ridge caps under a weatherproof tarp or in a moisture- and chemical-free environment until installation.</i>

2. System Components

The LUXR roofing system is more than a panel. A complete installation uses a coordinated set of trim, flashing, and accessory components, each engineered to work with the LUXR shingle and with each other. Using non-LUXR-approved accessories will void warranty coverage.

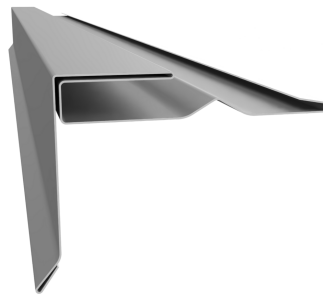
Core Components

COMPONENT	FUNCTION
DRIP EDGE	Locks the first course of panels at the eave and establishes the line.
RAKE	Anchors the panel ends at the gable and emphasizes the panel's tapered profile.
SIDEWALL	Vertical flashing at chimneys, dormers, and other vertical walls.
VALLEY	Double J valley flashing for superior ice and water protection
APRON/ 2PC ENDWALL	Front-of-penetration flashing (chimneys, skylights, dormers).
CLEAT OFFSET	Locks panels were needed and Drip edge is not present.

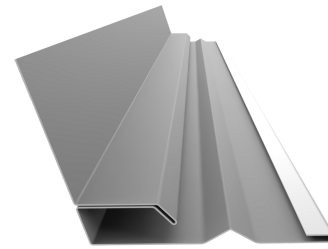




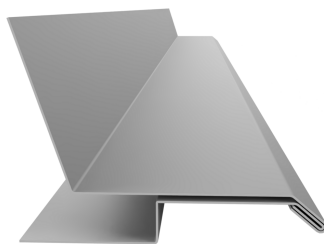
Drip Edge



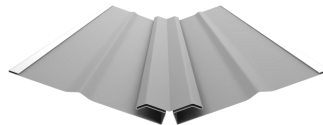
Rake



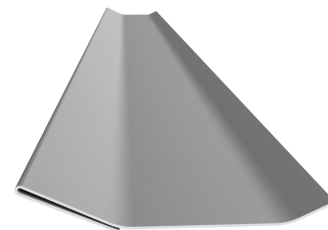
Sidewall



2pc Endwall



Valley



Cleat Offset

LUXR component profiles

FLASHING DETAILS MATTER

Careful attention to flashing details, especially water flow direction and overlap sequencing, is essential to long-term roof performance. When in doubt, route water down and out, lap upper components over lower components, and use sealant generously at all penetration points.

3. Recommended Tools

The following tools are commonly required or helpful for LUXR Metal Shingle installation.

BRAKES AND FORMING TOOLS	MEASURING AND MARKING	CUTTING AND FASTENING	HANDLING AND SITE	PERSONAL PROTECTIVE EQUIPMENT
10' brake	2' square	Cordless drill with turbo shears	Roof jacks (with protective spacer carpet, foam, or several layers of cardboard taped to the bottom to protect the panel top lock)	Protective gloves
2' brake	12" speed square	Impact driver	Small and large flat-bars	Safety glasses
15" hand bender	7" speed square	Right and left offset aviation snips	Hammer	Fall restraint equipment per OSHA
3" hand bender	3' straight edge	Utility knife	Dead blow hammer	Soft rubber-soled footwear
	Tape measure	Pop riveter	Pliers	
	Chalk line	Caulk gun	Zip tool	
	Markers and pencil		Suction tools (panel handling)	

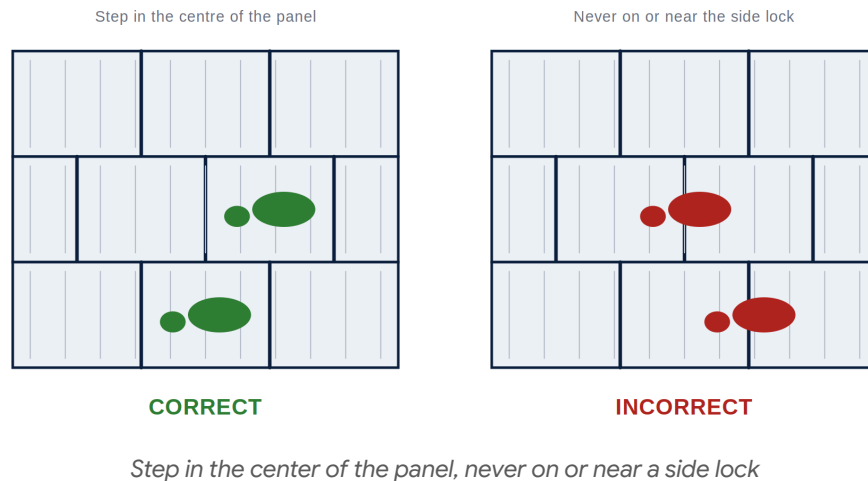
4. Pre-Installation Guidelines

Pitch Recommendations

MINIMUM PITCH PENDING FINAL CONFIRMATION

Minimum recommended slope for the LUXR Metal Shingle system, and the corresponding underlayment requirements at each minimum slope, will be confirmed and published in the LUXR Installation Manual v2. As a general rule, premium architectural metal shingle systems perform best at 3:12 pitch or steeper. If less than 4:12 Self adhering peel and stick is recommended for the entire roof.

Walking on LUXR Panels



- Always avoid walking on or near the panel side locks. Walk in the Center.
- Clean the bottom of shoes before stepping on a metal panel to avoid scratching the finish.
- Use soft rubber-soled footwear at all times on the roof.

Installation Sequence

Install LUXR components in the following order. Careful attention to sequence is essential, water flow and overlap depend on installing upper components over lower components in the correct order.

1. Eave Starter/ Drip Edge
2. Self-adhering high-temp ice & water shield (eaves, valleys, pitch changes, penetration points)
3. Synthetic high-temp underlayment (balance of roof deck)
4. Rake
5. Valley
6. Sidewall flashing
7. Field panels start at the bottom-left corner, work bottom to top, left to right

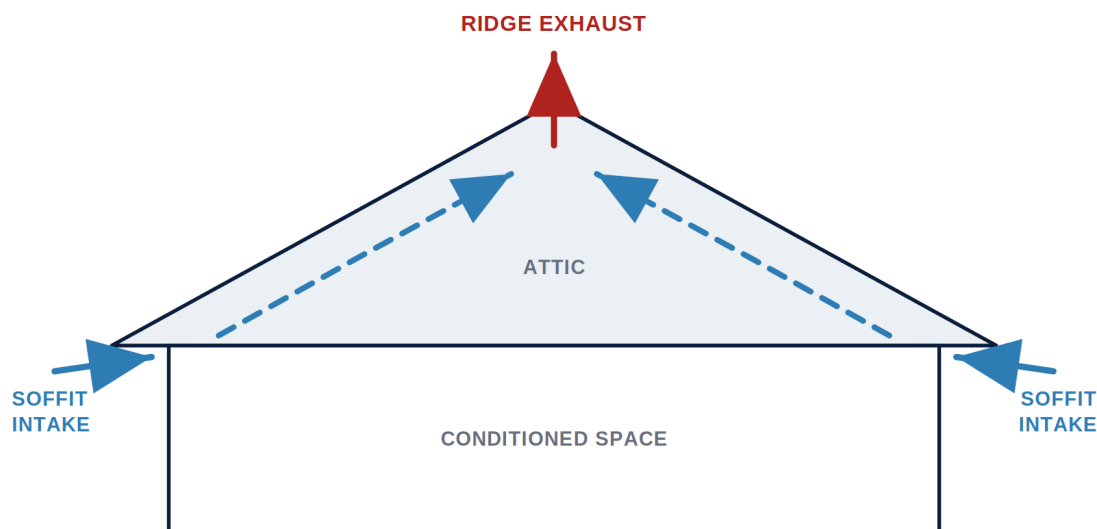
Class A Fire Rating

To achieve a Class A fire-rated roof assembly, install a code-specified fire-rated underlayment beneath the LUXR panel per the underlayment manufacturer's instructions.

Ventilation Considerations

In cold climates, attic ventilation expels warm moist air to reduce condensation and helps maintain a cold roof surface to prevent ice dam formation. In warm climates, ventilation expels hot air from the attic and reduces the cooling load on the structure.

Use a LUXR-approved ridge vent system together with adequate soffit intake vents for balanced ventilation. Intake at the soffit should be equal to or greater than exhaust at the ridge. Always refer to local building codes, and consult a professional builder if condensation issues occur condensation may indicate inadequate insulation or improper ventilation rather than a leaking roof.



Attic ventilation, balanced soffit intake and ridge exhaust

5. Roof Preparation

PHOTOGRAPH THE PROPERTY FIRST

Before starting work, walk the property and photograph any pre-existing damage to siding, gutters, fascia, or other exterior features. This protects the installer from later claims of damage that was already present.

Roof Tear-Off

- After tearing off old shingles, clean and prepare the roof deck to meet local building codes.
- Examine roof sheathing to ensure proper attachment to framing. Replace any damaged sheathing.
- Verify the deck is clean and smooth, free of depressions or projections.
- **Recommended sheathing:** Minimum of ½" plywood. 15/32" OSB, or tightly spaced ¾" board sheathing works as well.
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Roof-Over Procedures

- Installation over existing asphalt shingle is acceptable where permitted by local building code.
- Remove all existing hip and ridge caps.
- Flatten any buckled or curled shingles to create a smooth surface for the LUXR panels.
- **Fasteners:** To ensure penetration through the existing shingles into the roof sheathing be sure 2-3 threads are penetrating through the sheathing.
- Install synthetic underlayment over the asphalt shingles before installing the LUXR system.

Roof Jacks

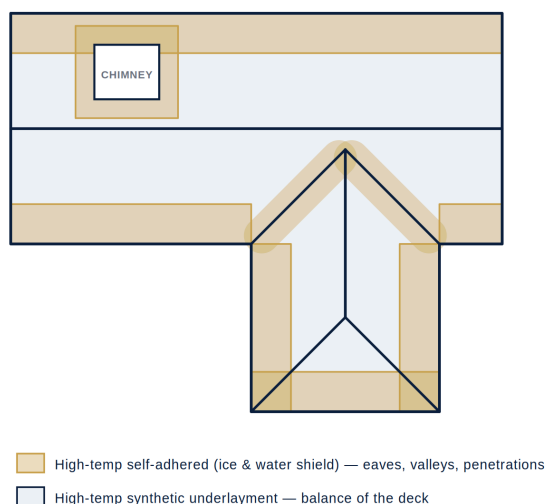
1. Install roof jacks securely into structural support using a fastener appropriate to the model of jack.
2. Tape a protective spacer, carpet, foam, or several layers of cardboard to the bottom of the roof jack to protect the panel top lock and prevent scuffing.
3. Cut and fold out the nose and wavelock of the next panel course to be installed over the roof jack. Cut the wavelock wide enough to accommodate side-travel movement of the jack when removing.
4. After removing the roof jack, cut off the wavelock and apply sealant behind the tab. Fold the nose down and tuck in place using a non-marring tool.
5. Always comply with all OSHA safety procedures.

6. Installation Overview

This section provides a high-level overview of the major installation phases.

Underlayment

- Underlayment is required prior to installing the LUXR system on both new construction and roof-over applications.
- A synthetic underlayment specifically designed for metal roofing provides the best protection.
- Install a high-temperature self-adhering underlayment (ice and water shield) at all eaves, valleys, pitch changes, and flashing points vent pipes, dormers, skylights, chimneys.
- Cover the remainder of the roof deck with high-temperature synthetic underlayment.
- Lay underlayment horizontally (parallel to the eave) with the printed slip-resistant side up. Follow the underlayment manufacturer's lap and fastening specifications.



Underlayment coverage, self-adhered at the vulnerable areas, synthetic elsewhere

Eave Starter and Rake

- Snap a chalk line at the eave to ensure straight Eave/Starter installation independent of any wave in the fascia.
- Install Eave/Starter at the eave; install Rake at the gable, over the underlayment, flush with the front nose of the Eave Starter.
- Overlap Eave Starter and Rake pieces tightly. At overlaps, consider water flow direction so the upslope piece nests into the downslope piece.

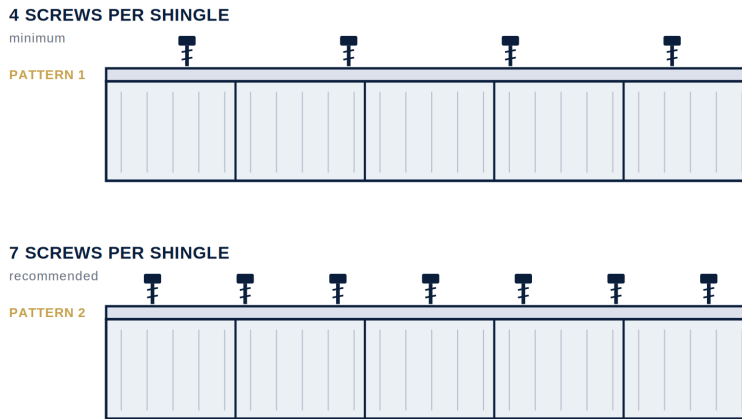
Valley

- Snap a chalk line in the center of the valley as a guide for straight Valley flashing installation.
- Always push Valley flashing down into the valley profile before tacking to prevent bridging between roof slopes.
- Where two pieces of Valley flashing are required, overlap upper piece at least 6" with two rows of sealant under the overlap.

Panel Installation

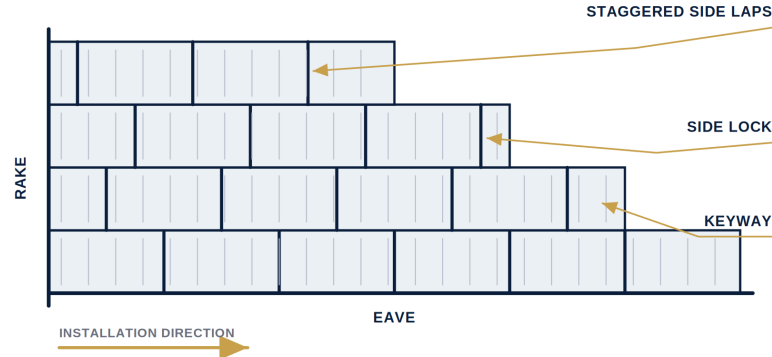
- LUXR panels install from left to right, eave to ridge.

- Ensure all panels are fully interlocked at each course.
- **Fastening:** Use LUXR-specified hex-head panel screws through the pre-drilled screw flange. Screws must penetrate a minimum depth of 3 threads through the sheathing. The screw count per panel determines the certified wind rating 4 screws min, with 7 recommended.



Fastening, 4 screws per shingle minimum, 7 recommended

- For a random appearance, follow a step pattern full panel, three-quarter panel, half panel, quarter panel, then repeat.



Staggered layout, keep side laps offset row to row

- Where panels end at a Rake, cut, fold up slightly and tuck into the bilt in Jchannel at the rake. A drain slot at the wavelock allows the water pan to drain properly.
- Where panels enter or exit a Valley, simply cut the panel to length and slightly bend up the edge and tuck into the built in J at the valley

Pitch Changes and Short Courses

- At a pitch change, field-form a transition trim from LUXR-matched trim coil. Two methods exist depending on where the top course of panels falls relative to the pitch change point.
- Always make up coursing differences on the first course at the lower eave. Avoid creating short courses in the middle of a roof plane.

Penetration Points

- Anytime a top lock is cut and bent open at chimneys, skylights, dormer pitch changes, or eave-to-rake valleys, install a 6" Underpan beneath the cut for secondary protection.
- Vent pipes: install a 20" Underpan tight against the pipe before installing the pipe flashing.
- Chimneys and skylights: install Underpans at the bottom corners, Apron flashing at the front (cut into masonry kerf where applicable), Sidewall flashing on the sides extending 3" past the top, and a field-formed backflash at the rear with diverters to guide water around the penetration.
- Apply sealant generously at every overlap and flashing edge. Always verify that joints are properly sealed for water tightness.

Hip and Ridge Details

- Cut panels and install as close as possible to the hip line.
- Bend Ridge/Hip Base in a portable brake to the correct roof pitch.
- Install Ridge/Hip Base centered on the line, overlapping sections approximately 6".
- The first Ridge/Hip Cap must be modified to form a bottom lock that fastens onto the Eave Starter at the eave.
- For vented ridges, cut an approximately 2" wide venting slot in the roof sheathing at the ridge (kept back at least 6" from gable end walls), then install a LUXR-approved ridge vent with the Ridge Base.
- For non-vented ridges, install Ridge/Hip Base with foam closure to the correct pitch.

Snow Diverters

- Snow diverters minimize unexpected snow slides and can be installed to protect walkways, landscaping, entrance doors, AC units, and similar areas.
- Be aware that snow and ice can build up and release unexpectedly, keep release areas clear of pedestrian traffic and property during winter months.
- Install diverters with sealant on the back of the diverter, locked over the panel top lock, and fastened with screws.

7. Maintenance and Cleaning

The factory-applied finish on a LUXR Metal Shingle roof is engineered to resist accumulation of common environmental residue, airborne dirt and industrial pollutants. In most areas, typical rainfall will wash away these particles and maintain a clean appearance. Periodic attention to the roof's condition will protect its beauty and prolong coating life.

Routine Attention

- Periodically scan the roof for debris from nearby trees, leaves, twigs, pine needles.
- Remove anything that may cause moisture retention, improper drainage, or blocked sunlight. These can lead to algae, moss, or mildew formation, which may shorten coating life.

Safety When Cleaning

A metal roof is slippery. Attempting roof maintenance can be extremely dangerous. To avoid injury from falls, LUXR strongly recommends hiring a skilled roofing professional when access to the roof is required.

Routine Cleaning

- In most cases, clean water from a garden hose will remove dirt and accumulated deposits.
- Protect shrubs or trees from direct contact with cleaning agents.
- Use proper PPE and follow precautionary instructions on any product label.
- Test cleaning solution on a small, inconspicuous area before proceeding to the full roof.
- Always use a cloth or soft brush for application. Never use a wire brush, scouring pad, or harsh solvents.

Detergent Solutions

A 5% solution of commonly available commercial (non-industrial) detergent in water will not damage the finish. Work from the top of the panel down with a well-soaked soft cloth, sponge, or brush. Rinse thoroughly with fresh water during and after cleaning to ensure no residue remains.

Mildew (Spot Cleaning)

In high-humidity areas, dirt and spore deposits can permit mildew growth. The following solution is recommended:

- ⅓ cup powdered laundry detergent
- 1 quart sodium hypochlorite 5% solution (household bleach)
- 3 quarts water

Dip cloth or soft brush in the solution, scrub affected areas, and repeat until clean. Rinse thoroughly with water to remove all traces of solution.

WARRANTY NOTICE

Misuse of cleaning agents including the use of pressure washers, wire brushes, scouring pads, or harsh solvents may void the LUXR surface warranty. Non-pressure cleaning methods are always recommended. When using a garden hose, take care to prevent water being forced under panels or vents.

8. Standards and Certifications

LUXR® Metal Shingles is engineered to be tested and certified to industry-leading standards. The published certification table below will be updated as final third-party test results are confirmed.

CERTIFICATIONS IN PROGRESS

LUXR is currently undergoing third-party testing and certification across wind uplift, impact resistance, corrosion resistance, weather resistance, wind-driven rain, and applicable regional approvals. Final ratings, fastener-count-to-wind-rating schedules, certifying agency reference numbers, and warranty terms will be published in the LUXR Installation Manual v2 and on luxrroof.com. Until those are formally published, please contact Coil Spot for the current status of any specific certification.

Expected Certification Categories

TEST TYPE	STATUS
WIND UPLIFT	Third-party testing in progress. LUXR is engineered for one of the highest wind ratings of any roofing product on the market, final certified ratings and fastener schedules pending.
IMPACT RESISTANCE	Third-party testing in progress.
CORROSION RESISTANCE	Third-party testing in progress.
REGIONAL APPROVALS	High-wind/hurricane-zone approvals pending where applicable.
COOL ROOF RATING	Solar reflectance values to be filed with Cool Roof Rating Council upon completion.

Warranty

LUXR Metal Shingles are backed by a published Sherwin Williams 40 yr. Limited Warranty. Contact Coil Spot for the most current warranty documentation.

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