PROTECH STEEL
METAL ROOFING -SIDING - TRIM

We're Committed To Excellence!

Customer Service
We pride ourselves on delivering exceptional customer service, built on trust always.

Order Accuracy
We prioritize precise order accuracy, ensuring every delivery meets expectations every time.

Reliable Delivery
We maintain a reliable schedule, ensuring materials arrive on time every time.

Project Quoting
We support commercial sales teams, helping you accurately quote complex commercial projects.



Billings, MT

Reach Out Today!

Contact Us!

+1-(406)-601-3003

info@protechsteel.com

How To Place an Order!

REQUEST QUOTE

Send Plans or a Cutlist
We can quote your project directly from construction plans or a detailed material list.

Set Up Shipping!
Schedule your delivery timing directly with our shipping department to ensure materials arrive exactly when you need them.

Let's Build Something Beautiful Together!

VISIT US ONLINE!

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EXPOSED FASTENER PANELS

Exposed Fastener
A metal roofing or siding panel where the fasteners are visible and installed through the face of the panel to secure it to the structure.

Ease Of Install / Cost
Exposed fastener panels are easy to install and offer a cost-effective solution.



3' Tuff Rib
3' PBR Panel
3' Lo-Pro Panel
3' Rugged Rib
7.2 Panel

Roofing & Siding Panels

How To Place an Order!

Send Plans or a Cutlist
We can quote your project directly from construction plans or a detailed material list.

Set Up Shipping!
Schedule your delivery timing directly with our shipping department to ensure materials arrive exactly when you need them.

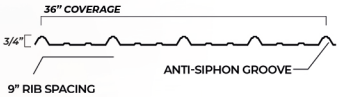
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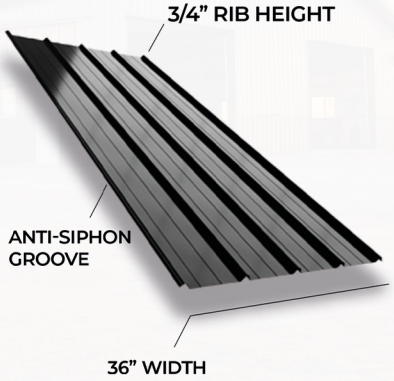
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EXPOSED FASTENER PANELS

3' TUFF RIB





Panel Info

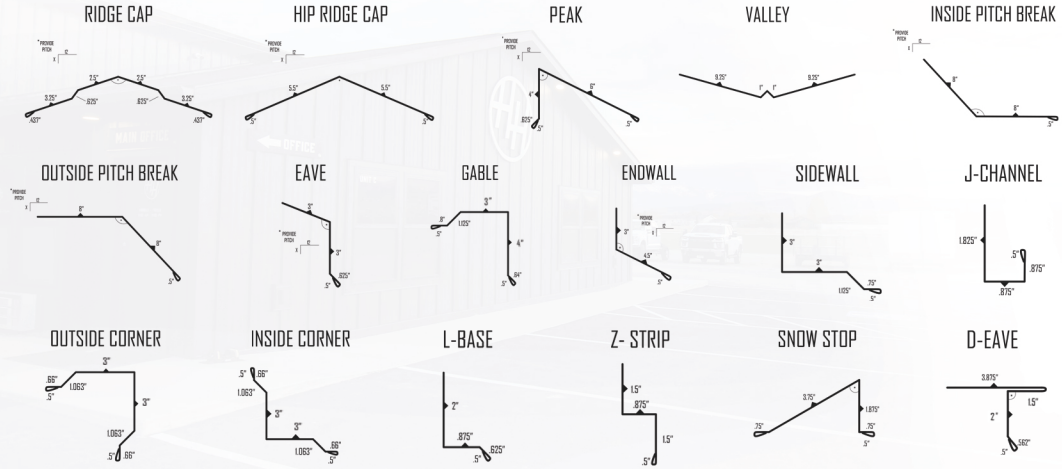
29ga and 26ga availability
36" wide with ¾" ribs at 9" spacing
2' span capable, exposed fastener
Residential, commercial, agricultural

Fastener Details

Use lOxl½" (¼" drive) fasteners for dimensional lumber, 14xl" (5/16" drive) fasteners for solid sheathing such as OSB or plywood, and 12xl½" fasteners for steel purlins. For roof laps, secure panels using 12x¾" lap screws .



STANDARD TRIM



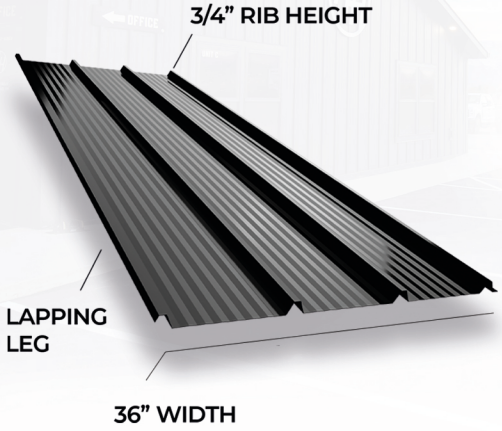
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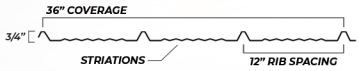
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3' RUGGED RIB

EXPOSED FASTENER PANELS





Panel Info

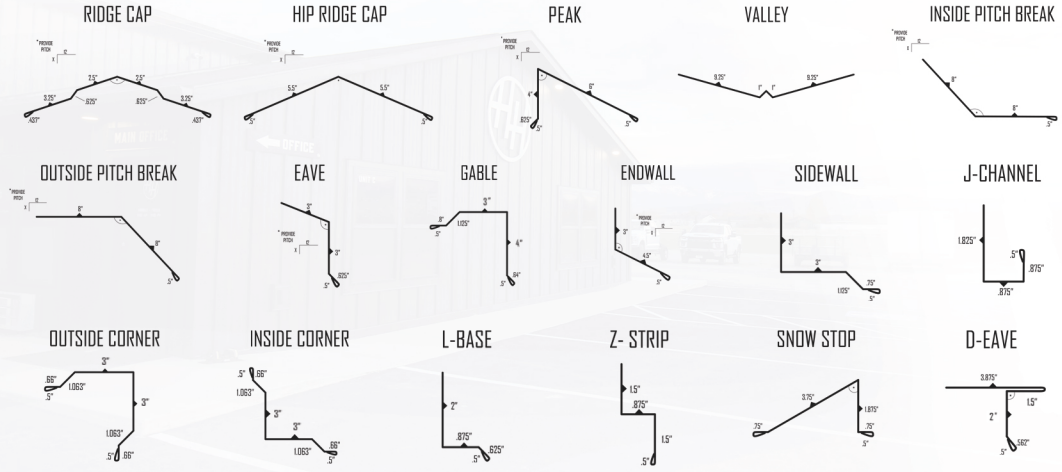
29ga and 26ga availability
36" wide with ¾" ribs at 12" spacing
Exposed fastener with striations
Residential and light commercial use

Fastener Details

Use lOxl½" (¼" drive) fasteners for dimensional lumber, 14xl" (5/16" drive) fasteners for solid sheathing such as OSB or plywood, and 12xl½" fasteners for steel purlins. For roof laps, secure panels using 12x¾" lap screws .



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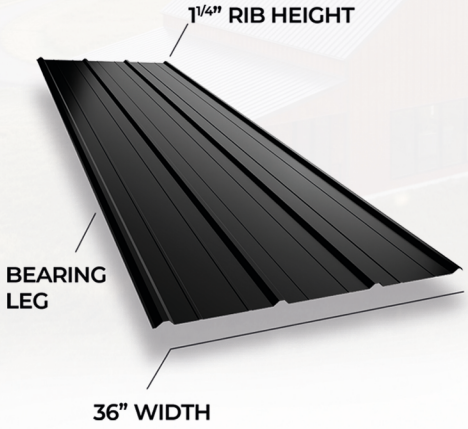
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3’ PBR PANEL



EXPOSED FASTENER PANELS

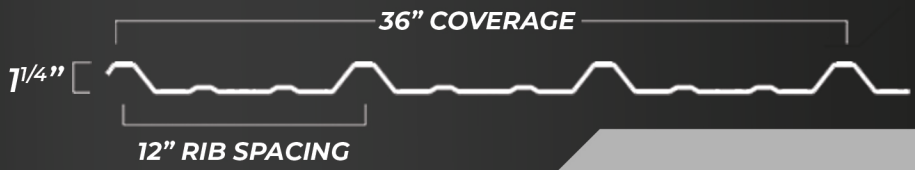


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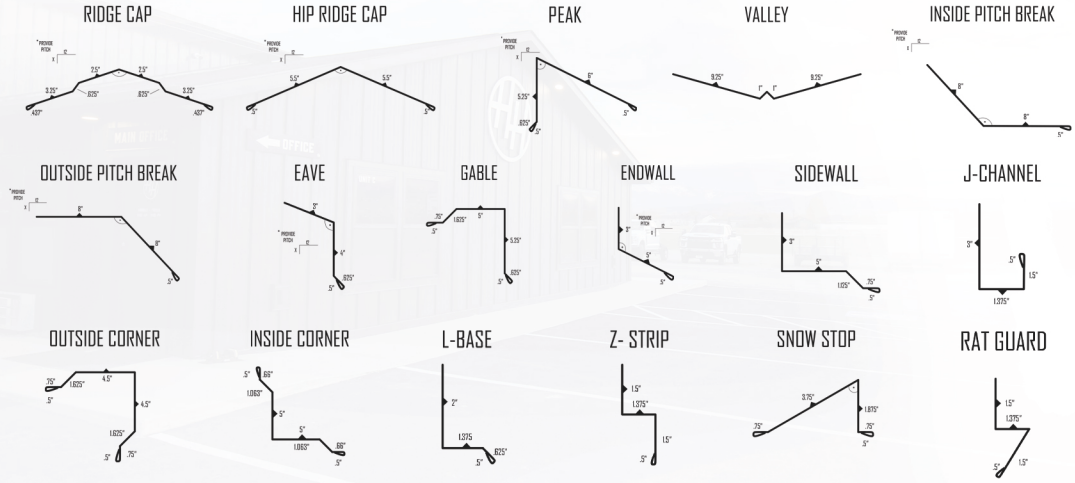
26ga and select 24ga availability
36" wide with 1¼" ribs at 12" spacing
Bold profile, exposed fastener panel
Agricultural, commercial, industrial use

Fastener Details

Use 14×1 fasteners for OSB, 10×1½ for lumber, and 12×1¼ for steel as field screws. Use 10×1 for trim, and where stitch screws are required, install 12×7⁄8 stitch screws.



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7.2” PANEL

EXPOSED FASTENER PANELS





Panel Info

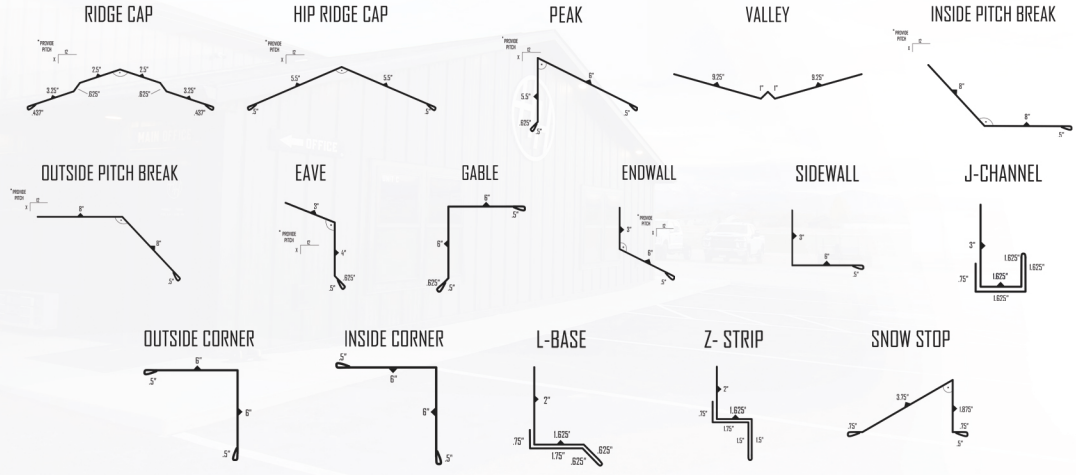
24ga steel availability
36" wide with 1½" ribs at 7.2" spacing
Heavy-duty exposed fastener panel
Commercial and industrial applications

Fastener Details

Use 14×1 fasteners for OSB, 10×1½ for lumber, and 12×1¼ for steel as field screws. Use 10×1 for trim, and where stitch screws are required, install 12×7/8 stitch screws.



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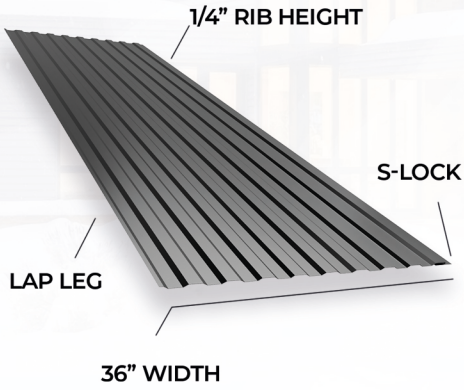
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3’ LO-PRO PANEL

EXPOSED FASTENER PANELS





Panel Info

29ga & 26ga availability
36" wide with 4" ribs at 4" spacing
Lo-profile liner banel and wall panel
Great for interior applications

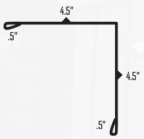
Fastener Details

Use 10×1 Lo-Pros for OSB, 10×1½ for lumber applications.
Use 10×1 for trim.



STANDARD TRIM

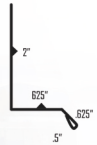
OUTSIDE CORNER



INSIDE CORNER



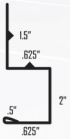
L-BASE



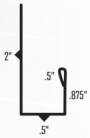
Z-STRIP



BROOM BASE



1/4" J-CHANNEL



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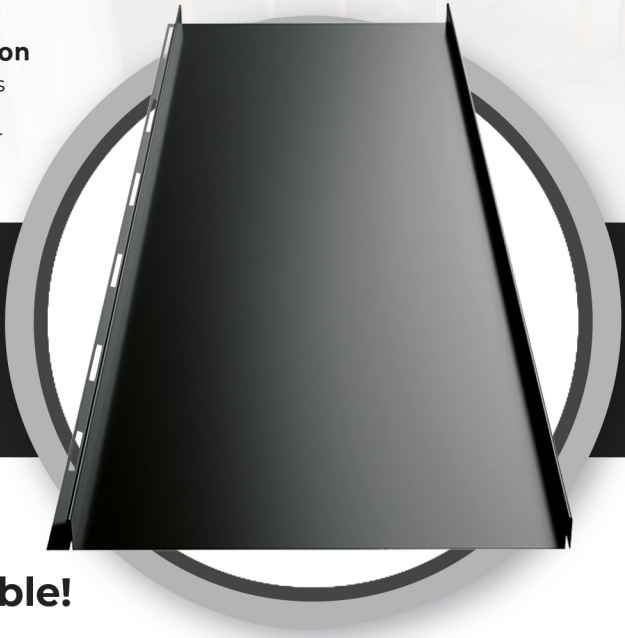
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STANDING SEAM PANELS

Hidden Fastener
Standing seam panels offer low-maintenance, hidden-fastener protection from the elements.

Enhanced Protection
Standing seam panels provide enhanced protection from water and weather.



1” Nail Strip
1 3/4” Snap Lock
1 1/2” Mech Lock
2’ Mech Lock
T - Series

Roofing & Siding Panels

Sustainably Durable!

UL - Rated Panels

All of our standing seam panels are UL rated for impact resistance, water infiltration, and air infiltration, giving you complete protection and peace of mind in any environment.

We’ve Got You Covered

From simple Nail Strip to advanced Trap-Tee systems, we offer standing seam solutions for every residential and commercial roofing and siding need.

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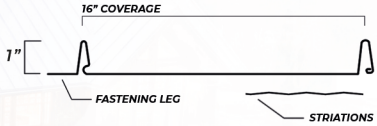
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1” NAIL STRIP

STANDING SEAM PANELS



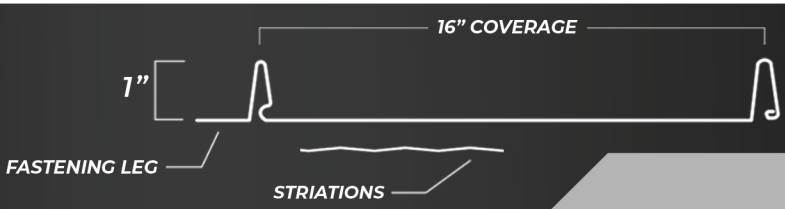


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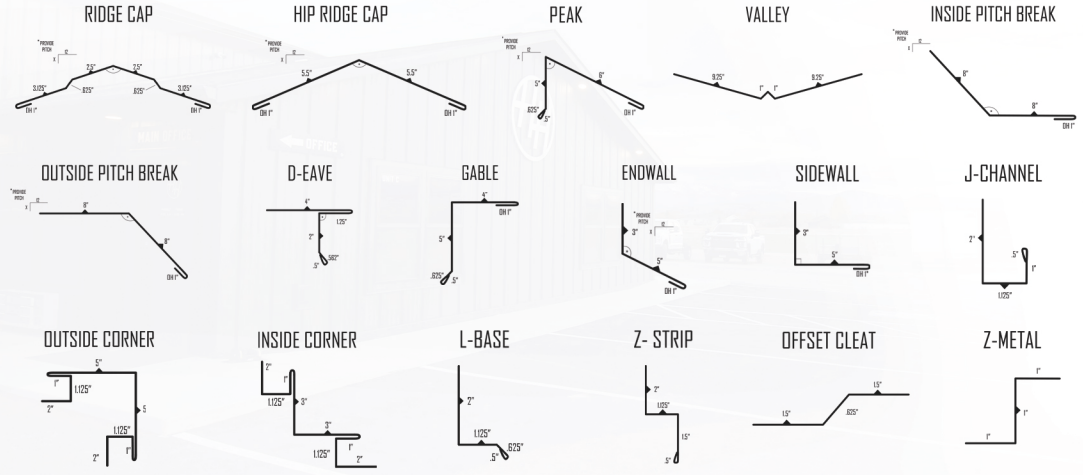
26ga and 24ga availability
16" wide with 1" standing seam ribs
Available with or without striations
Residential and commercial projects

Fastener Details

This panel uses 10×1 SS screws in the field and 10×1.5 or 10x1 Lo-Pro screws for trim



STANDARD TRIM



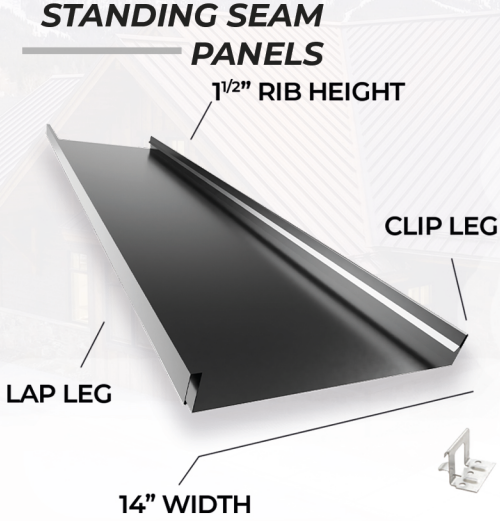
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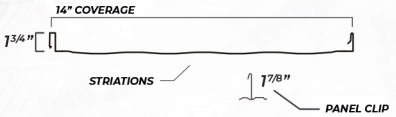
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1 3/4" SNAPLOCK

STANDING SEAM PANELS





Panel Info

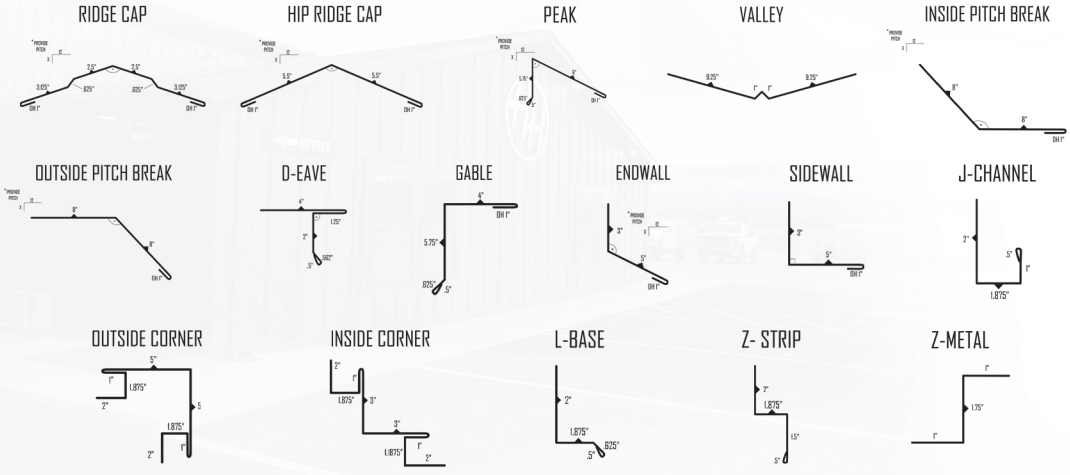
26ga and 24ga availability
14" wide with 1¾" standing seam ribs
Residential and light commercial use
Clip-fastened system

Fastener Details

This panel uses 10×1 SS clip screws in the field and 10×1.5 or 10x1 Lo-Pro screws for trim



STANDARD TRIM



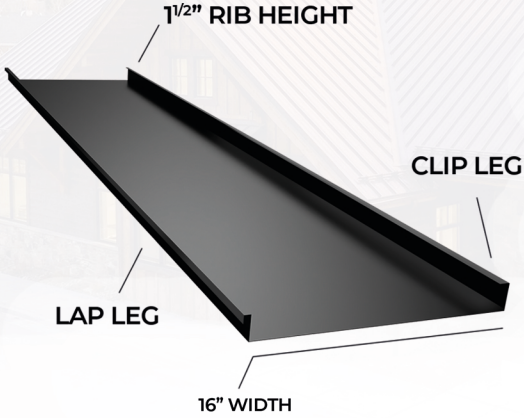
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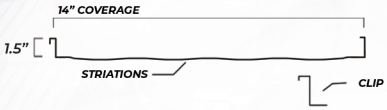
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1.5” MECHANICAL LOCK

STANDING SEAM PANELS





Panel Info

24ga and 22ga availability
16" wide with 1.5" mechanically seamed ribs
Long-span capable, concealed fastener
Commercial and industrial applications

Fastener Details

This panel primarily uses 10×1 SS clip screws or metal bonding screws, depending on the application. It is typically a 100% concealed-fastener system, with only rivets visible



STANDARD TRIM

RIDGE CAP



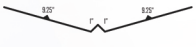
HIP RIDGE CAP



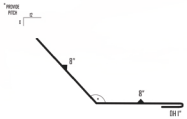
PEAK



VALLEY



INSIDE PITCH BREAK



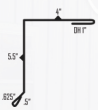
OUTSIDE PITCH BREAK



D-EAVE



GABLE



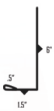
ENDWALL



SIDEWALL



FASCIA



OFFSET CLEAT



Z-METAL



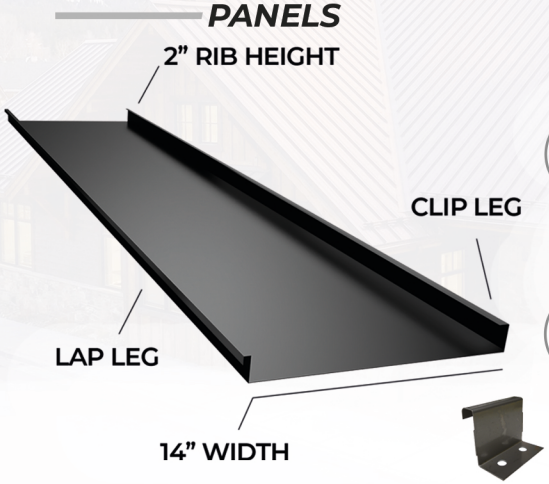
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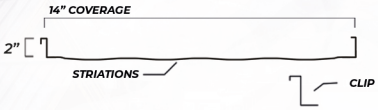
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2 ” MECHANICAL LOCK

STANDING SEAM PANELS





Panel Info

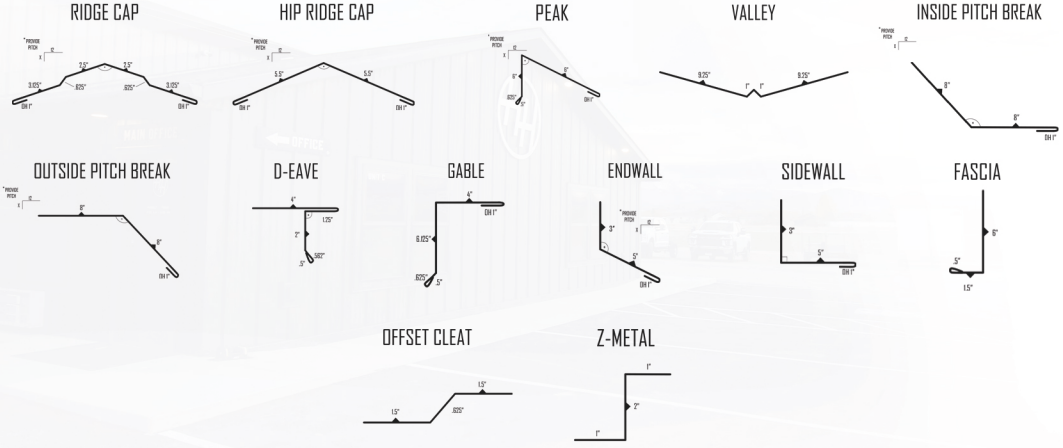
24ga and 22ga availability
14" wide with 2" mechanically seamed ribs
Long-span capable, concealed fastener
Commercial and industrial applications

Fastener Details

This panel primarily uses 10×1 SS clip screws or metal bonding screws, depending on the application. It is typically a 100% concealed-fastener system, with only rivets visible



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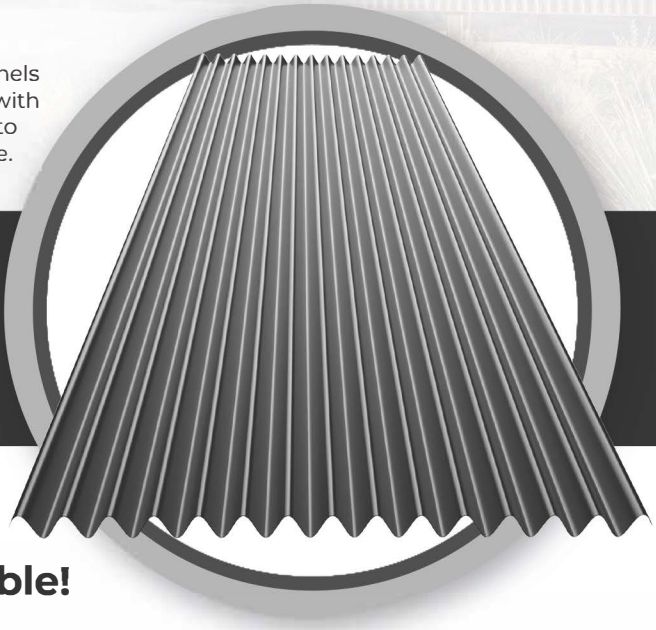
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Corrugated Steel Panels

Timelessly Tough
Corrugated panels offer time-tested strength with a classic profile built to perform season after season.

Bold By Design
Classic corrugated panels deliver timeless style with a modern edge, built to perform in any climate.



7/8" Corrugated

1/4" Corrugated

Roofing & Siding Panels

Sustainably Durable!

Standing The Test Of Time

Corrugated panels were first trusted on ranches and agricultural buildings, and today they've evolved into a bold, architectural staple for modern homes and commercial projects.

We've Got You Covered

We've got you covered with corrugated panels from 1/4" to 7/8", giving you the right profile to match your project and keep your building looking fresh.

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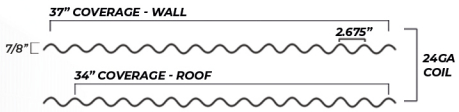
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7/8” CORRUGATED

CORRUGATED PANEL





Panel Info

26ga and 24ga availability
37" siding / 34" roofing coverage 24ga
32" siding / 29.5" roofing coverage 26ga
7/8" corrugation ribs at 2.675" on-center
Residential and commercial applications

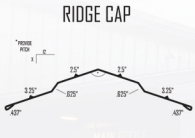
Fastener Details

Use 14×2 for roofing
14x1-1.5 for siding
12×7/8 stitch screws for overlapping panels.



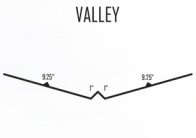


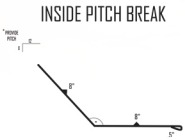
STANDARD TRIM

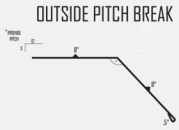




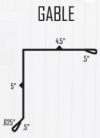








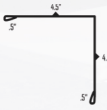


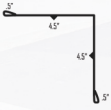






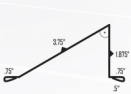














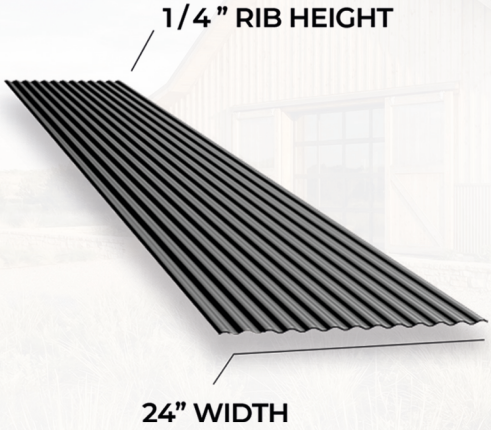
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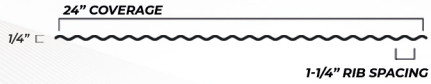
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PROTECH STEEL
METAL ROOFING -SIDING - TRIM

1/4” CORRUGATED

Exposed Fastener Panels





Panel Info

28ga and 24ga availability
24" coverage with ¼" corrugation depth
1¼" rib spacing, classic corrugated profile
Siding and accent applications only

Fastener Details

This panel uses the 10x1-1.5 for field fastening.
No lap screw required



STANDARD TRIM

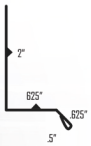
OUTSIDE CORNER



INSIDE CORNER



L-BASE



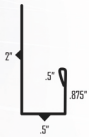
Z-STRIP



BROOM BASE



1/4" J-CHANNEL



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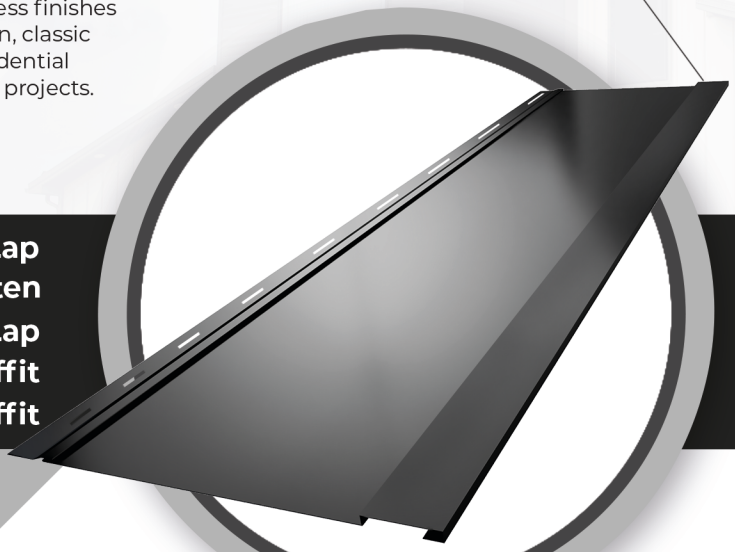
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Soffit & Batten Panels

Commercial & Residential

Soffit, batten, and lap panels are timeless finishes that bring a clean, classic look to both residential and commercial projects.

Board & Batten



Double 5” Lap
10” Board & Batten
Double 5” Dutch Lap
1” Flush Soffit
1/2” V Soffit

For Use As Siding Panels Only

Timelessly Tough!

Durable & Delightful

All of our batten, lap and soffit panels bring a clean, elegant look with tough, time-tested durability. Classic style meets modern performance

Upgrade To Steel

Steel siding is the upgrade that lasts—stronger than wood, cleaner than vinyl, and built to handle real weather. It won’t rot, warp, or crack, and it stays looking sharp with less maintenance. Built to protect. Built to last.

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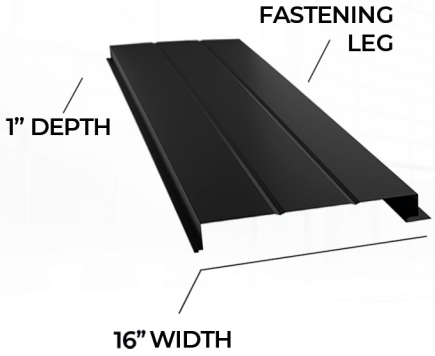
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METAL ROOFING -SIDING - TRIM

Exposed Fastener Panels

1” FLUSH SOFFIT





Panel Info

26ga and 24ga availability
16” panel width with 1” wide depth.
Available flat, with pencil ribs, or striations.
Adjustable width options.

Fastener Details

This panel uses 10x1SS screws for field fastening.
10x1 Lo-Pro or pop rivet for trim



STANDARD TRIM

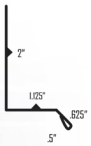
OUTSIDE CORNER



INSIDE CORNER



L-BASE



Z-STRIP



BROOM BASE



Z-METAL



J-CHANNEL

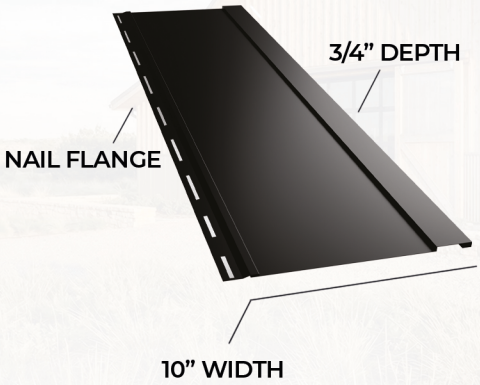


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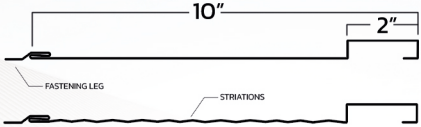
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PROTECH STEEL
METAL ROOFING -SIDING - TRIM

BOARD & BATTEN PANEL



BOARD & BATTEN



Panel Info

26ga and 24ga availability
10" panel width with 2" wide, ¾" batten
Clean vertical board-and-batten profile
Residential and commercial siding applications only

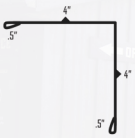
Fastener Details

This panel uses 8x1SS screws for field fastening.
10x1 Lo-Pro or pop rivet for trim



STANDARD TRIM

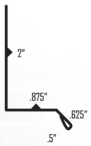
OUTSIDE CORNER



INSIDE CORNER



L-BASE



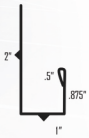
Z-STRIP



BROOM BASE



J-CHANNEL



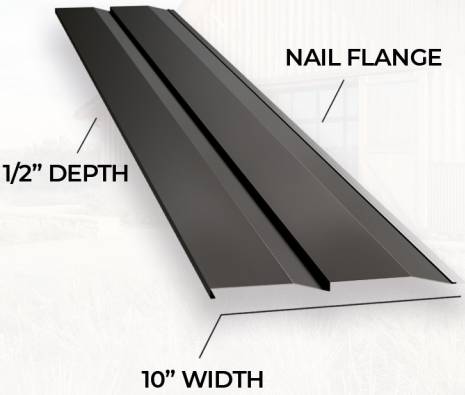
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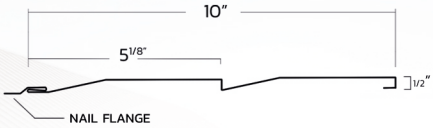
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DOUBLE 5” DUTCH

LAP SIDING PANEL



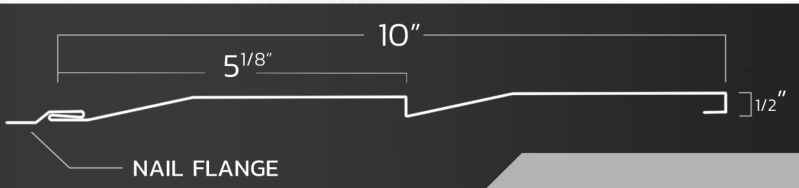


Panel Info

26ga and 24ga availability
10" coverage with 1/2” panel depth
5” rib spacing on a classic dutch lap
Siding and accent applications only

Fastener Details

This panel uses 8x1SS screws for field fastening
10x1 Lo-Pro or pop rivet for trim



STANDARD TRIM

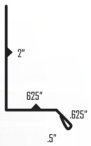
OUTSIDE CORNER



INSIDE CORNER



L-BASE



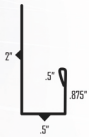
Z-STRIP



BROOM BASE



1/4” J-CHANNEL



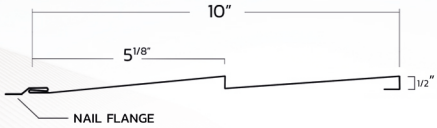
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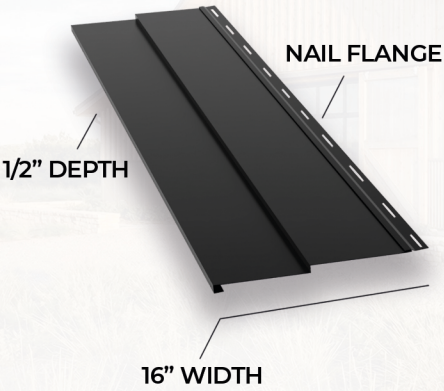
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DOUBLE 5” PANEL

Exposed Fastener Panels



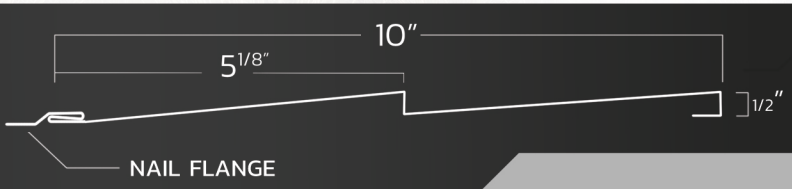


Panel Info

26ga and 24ga availability
10" coverage with 1/2” panel depth
5” rib spacing on a classic lap
Siding and accent applications only

Fastener Details

This panel uses 8x1SS screws for field fastening
10x1 Lo-Pro or pop rivet for trim



STANDARD TRIM

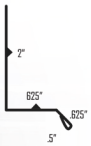
OUTSIDE CORNER



INSIDE CORNER



L-BASE



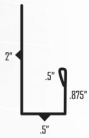
Z-STRIP



BROOM BASE



1/4” J-CHANNEL



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METAL ROOFING -SIDING - TRIM

BUILDING SUPPLIES & LUMBER

GLU-LAM POSTS

3PLY 2X6 14' THROUGH 28'

3PLY 2X8 14' THROUGH 30'

4PLY 2X6 14' THROUGH 30'

3PLY 2X6 14' FULL TREAT

POST BRACKETS

DRY SET WITH HARDWARE

WET SET WITH HARDWARE

DF TIMBERS

4X4, 6X6, 8X8, 10X0,

12X12

LUMBER

2X4 - #1 (SPECIAL ORDER FULL UNIT)

2X6 AND LARGER - SELECT STRUCTURAL

OSB (FULL UNIT)

7/16X4X8 - 68PC UNIT

19/32X4X8 - 65PC UNIT

E.W.P (SPECIAL ORDER)

LVL, GLU-LAM BEAM, RIM BOARD,

BCI JOINST.



ACCESSORIES



PANEL CLOSURES

Panel closures are non-permeable, die-cut foam inserts designed to match the panel profile and create a tight, weatherproof seal at eaves, ridges, and transitions.



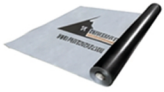
VENTED CLOSURES

Vented panel closures seal the ridge while allowing continuous airflow through the roof system, helping regulate moisture and temperature without sacrificing weather protection.



SNAP-Z RIDGE CLOSURE

Snap-Z is a vented ridge closure system engineered for standing seam panels of varying widths and rib heights, providing effective ventilation with a clean, finished appearance.



SYNTHETIC UNDERLAYMENT

Synthetic underlayment creates a durable, waterproof barrier between the roof deck and metal panels. Self-adhered ice and water shield is recommended at eaves and valleys for added protection in critical areas.



BUTYL TAPE / SEALANT

Butyl tape, also known as end-lap or tacky tape, is used at panel laps, trim joints, and penetrations to create a long-lasting, watertight seal against water, wind, dust, and debris.



ROOF JACKS

Roof jacks are designed to properly flash pipes and roof penetrations in metal roofing systems. Available in standard and high-temperature options, with sizes typically ranging from 0"–18".

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FASTENERS & SCREWS

#10 WOODTITE FASTENER

The #10 screws feature a 1/4" hex head for easy driving, deep threads for maximum hold, and a pre-assembled EPDM washer for a watertight seal. Ideal for securing metal panels to dimensional lumber.



10X2”

The #10 x 2" screw is another option for dimensional lumber applications. It's extended shaft provides superior depth for applications such as ridge cap and trim allowing the screw to penetrate through the trim, down through the panel and into the substrate.



10X1 1/2”

The #10 x 1.5" screw features a similar design, but with a longer shaft to provide additional reach and holding power, this screw is primarily used in the application of pole barn panels and trim applications of TuffRib and PBR panels.



10X1”

The #10 x 1" screw is designed for securing panels to dimensional lumber. With a 1/4" drive head for efficient torque transfer, this screw is often used in trim applications.

PROTECH STEEL
METAL ROOFING -SIDING - TRIM

FASTENERS & SCREWS

#14 WOODTITE FASTENER

The #14 screws come with a 5/16" hex head for efficient installation, a wider thread for less chip, and an EPDM washer pre-installed to ensure a reliable, watertight seal. Ideal for fastening metal panels to OSB and plywood surfaces.



14X2”

The #14 x 2" screw, with a 5/16" hex head, is designed specifically for attaching panels to OSB and plywood. It’s extended length makes it ideal for applications requiring penetration through the high rib of profiles like 7/8" corrugated. With deep threads for superior pullout resistance.



14X1 1/2”

The #14 x 1.5" screw, also featuring a 5/16" drive head, is perfect for fastening metal to OSB and plywood. It’s extended length provides added hold, and is most commonly used on wall applications of the 7/8” Cor.panels or 7.2” panel.



14X1”

The #14 x 1" screw, with it’s 5/16" drive head, is designed for securing panels to OSB and plywood panels. This screw is most commonly used to fasten TuffRib and PBR panels when using a substrate.

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FASTENERS & SCREWS

#12 WOODTITE FASTENER

The #12 screws feature a 5/16" hex head for smooth installation, precision-engineered threads for strong metal-to-metal connections, and a pre-assembled EPDM washer. Perfect for fastening metal panels to structural steel or other metal substrates.



12X1 1/4”

The #12 x 1-1/4" screw is another panel screw that offers a firm hold in metal to metal construction such as steel buildings. You will primarily use this screw for fastening a PBR panel or 7.2” panel into steel purlins or girt appllications.



12X7/8”

The #12 x 7/8" screw features a similar design, but with a longer shaft to provide additional reach and holding power as this screw is most often used as a stitch screw for panels witha higher rib like the PBR panel and the 7/8”panel.



12X3/4”

The #12x3/4" screw features a 1/4" hex head, sharp threads for secure metal-to-metal fastening, and a pre-assembled EPDM washer for a watertight seal—primarily used for stitching panels together at their laps.

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FASTENERS & SCREWS



1 1/2" LO-PRO

The Lo-Pro screw features low profile head and uses a #3 or T25 bit to fasten. It has similar threads as the #10x1.5 and is typically used for interior or exterior wall application but can also be used on trim where a low pro head is needed.



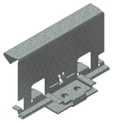
10X1" SS

The 10x1 standing seam screw is also known as the wafer head screw, pancake screw or clipscrew is typically used in a nail strip panel application, but can also be used for clips and other standing seam applications.



FIXED CLIP

Fixed clips secure the panel directly to the substrate and are used on shorter panel runs where thermal movement is minimal. They hold the panel firmly in place and are typically recommended for runs under 30 feet.



FLOATING CLIP

Floating clips are designed to accommodate thermal expansion and contraction, allowing the panel to move independently of the roof deck. They are ideal for longer panel runs and help prevent stress, oil canning, and fastener fatigue.

STEEL PANEL TERMS

Anti-Siphon Groove
A small channel formed beside the major rib designed to prevent wind-driven rain from traveling under the side lap.

End Lap
A horizontal overlap created when one panel overlaps another due to length limitations; requires sealant and additional fasteners.

Exposed Fastener Panel
A metal panel system where screws remain visible after installation.

Gauge
The thickness of the steel panel (a lower gauge number indicates thicker steel).

Major Rib (High Rib)
The raised rib that provides structural strength and forms the panel overlap.

Minor Rib (Stiffening Rib / Low Rib)
Smaller ribs located between major ribs that help reduce waviness and add rigidity.

Oil Canning
Visible waviness in the flat portions of metal panels; cosmetic in nature and not a structural defect. Disclaimer: Oil canning is not grounds for material rejection.

Panel Coverage
The effective width of the panel after installation; Tuff Rib provides 36" (3') of coverage.

Panel Length
The custom cut length of the panel measured from eave to ridge (roofing) or bottom to top (walls).

Side Lap
The vertical overlap where one panel connects to the next.

Span Capability
The maximum spacing allowed between supports based on gauge and engineering. Tuff Rib panels are rated for 2' on center.

STEEL TRIM TERMS

Base Trim (L-Base)
Installed at the bottom of wall panels to create a finished edge and direct water away. Also called starter metal.

Z-Base Trim (Rat Guard)
Installed at the base of wall panels where no flat surface exists. Designed to close off openings and prevent insects or rodents from entering behind siding.

Eave Trim (Gutter Apron / Drip Edge)
Installed at the eave to channel water into the gutter and protect the roof edge.

Eave
The lower horizontal edge of a roof where water drains.

Gable Edge (Rake Edge)
The sloped roof edge running from eave to ridge.

Inside Corner Trim
Used where two walls meet at an inside corner.

J-Trim
Finish trim used around doors, windows, and soffits.

Outside Corner Trim
Installed where two walls meet at an exterior corner.

Gable Trim (Rake Trim)
Installed along the gable edge to seal and finish the roofline.

Ridge Cap
Covers and seals the peak where two roof slopes meet.

Starter Metal
Contractor term typically referring to eave trim (roofing) or base trim (walls); application must be confirmed.

STEEL TRIM TERMS

Valley Pan
A formed metal channel installed where two roof planes intersect to guide water off the roof.

Endwall Trim
Installed where roof panels meet a vertical wall; seals the top of the panel and directs water away. Requires roof pitch.

Sidewall Trim
Used where roof panels run alongside a vertical wall; always formed at a 90° angle.

Inside Pitch Break Trim
Installed where two roof sections fold inward, forming an inside angle; commonly used on lean-to or porch roofs.

Outside Pitch Break Trim
Installed where two roof sections fold outward, forming an outside angle; often used on gambrel-style sheds.

D-Eave (Double Eave Trim)
Provides extended coverage at the eave for added fascia protection and improved water control.

Hip Ridge Cap
Covers and seals roof hips where two slopes meet at an outside angle.

Peak Trim
Installed at the highest point of a mono-slope (single-slope) roof to seal and finish the peak.

Snow Stop (Snow Guard)
A device installed on metal roofing to manage sliding snow and reduce sudden snow release.

Fascia Trim
Covers and protects the fascia board while providing a finished edge for gutters and eave trim.

STEEL TRIM TERMS

F-Channel
Finish trim used to receive soffit panels or panel edges, commonly at eaves.

JF Channel
A dual-purpose trim combining two J-channels; typically the top receives soffit and the bottom receives wall panels.

Head Trim
Installed above doors or windows to divert water and provide a clean finish.

Jamb Trim
Installed along the sides of doors or windows to conceal panel edges and improve weather protection.

ACCESSORY TERMS

Butyl Tape (Sealer Tape)
A flexible, non-hardening adhesive sealant used at end laps, under trim, and around penetrations.

Closure (Foam Closure)
Foam inserts designed to fill rib openings and block wind, rain, insects, and debris.

Color-Matched Fastener
A painted screw head designed to blend with the panel color.

EPDM Washer
A rubber washer attached to screws that seals the fastener hole against moisture.

Ice & Water Shield
A self-adhering waterproof membrane applied at eaves, valleys, and penetrations.

Inside Closure
Installed beneath panels, typically at the eave.

Lap-Tek Screw (Stitch Screw)
A short screw used to secure panel overlaps together without fastening into framing.

Outside Closure
Installed above panels, commonly beneath ridge caps or trim.

Panel Fastener
A longer screw used to attach panels to decking, purlins, or structural framing.

Synthetic Underlayment
A lightweight protective layer installed over roof decking beneath metal panels.

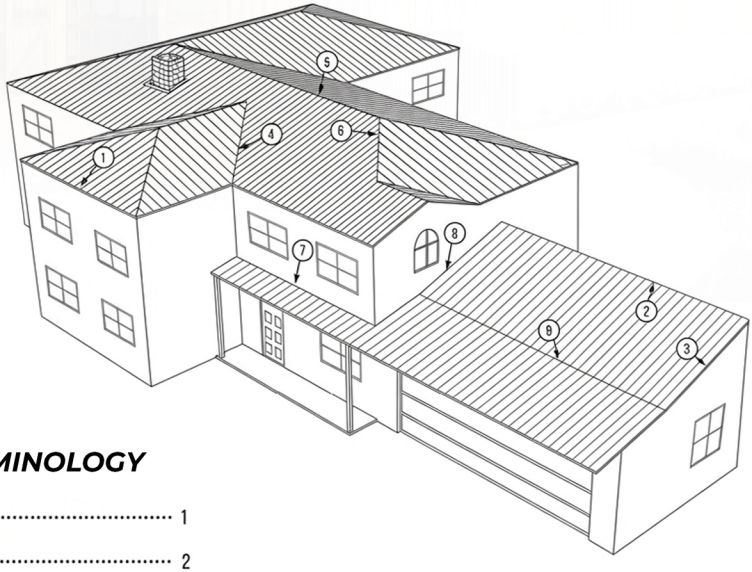
Ventilated Closure
A closure that seals rib openings while still allowing airflow.

Vented Ridge Cap
A ridge system designed to release heat and moisture from attic spaces.

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TRIM TERMINOLOGY

TRIM TERMS & INDEX



TRIM TERMINOLOGY

EAVE 1

PEAK TRIM 2

GABLE 3

VALLEY 4

RIDGE 5

HIP 6

ENDWALL TO ROOF TRANSITION 7

SIDEWALL FLASHING 8

PITCH BREAK 9

PROTECH STEEL
METAL ROOFING -SIDING - TRIM

ANGLE CALCULATIONS

SLOPE TO ANGLE

2/12	20°
3/12	28°
4/12	36°
5/12	46°
6/12	54°
7/12	61°
8/12	70°
9/12	75°
10/12	81°
11/12	87°
12/12	90

