# R & M STEEL CO

R & M STEEL COMPANY

## STEEL BUILDING COMPONENTS




**P.O. Box 580**
**Caldwell, Idaho 83606**

**Phone: 1-208-454-1800 Toll Free: 1-866-454-1800**
**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**

**Email: sales.rmsteel@gmail.com**

R & M STEEL CO

STEEL BUILDING COMPONENTS

# GENERAL INFORMATION

Thank you for your business.
To place an order, you may:

**Phone: 1-208-454-1800 Toll Free: 1-866-454-1800**
**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**
**Email: sales.rmsteel@gmail.com**

## ORDERING INSTRUCTIONS

**In order to process your order most efficiently, please have the following information available:**

- Company Name
- Purchase Order number or job reference
- Complete shipping information to include:
  - Destination,
  - Address directions
  - Desired carrier
  - Ship date
  - Extraordinary packaging
  - Handling information
- Panel profile, gauge, color, cut list
- Skylight panels
- Standard flashings
- Special flashings
- Fasteners
- Flat sheet
- Secondary framing members
- **Read order back for confirmation**

## PACKAGING

**Roofing, siding, and trim will be covered with protective packaging to help protect against damage.**

Storage recommendations are provided with each skid.

**The customer, however, should take whatever steps are necessary to insure that the materials remain dry after delivery.**

## STORAGE INSTRUCTIONS

Store the panels in a dry, well-ventilated area. Elevate one end of the bundle so that any moisture that may exist can run off. Make sure that air can circulate freely around the panels to avoid any build-up of moisture between the panels. Moisture trapped between the panels will cause the paint to bubble and white rust to form on unpainted panels. Do not store the panels in direct contact with the ground.

**R & M Steel Company assumes no liability for sheets improperly stored.**

## WHITE RUST

White rust on bare galvanized metal is the result of the oxidation of zinc in the absence of air or oxygen. This occurs in coils or bundles of sheet steel that are nested and absorb moisture through either direct rainfall or condensation from humid conditions.

The oxidation appears as a white, chalky powder and thus the term "white rust".

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## POLICY

**Once materials are delivered to a yard, jobsite or nearest accessible site, R & M STEEL is not responsible for uncovered, unprotected or improperly stored material that may be subject to theft, damage, or white rust.**

## GENERAL WARRANTY

R & M STEEL COMPANY (R & M STEEL) warrants that products sold are free from faulty material or workmanship. R & M STEEL warrants that its products will be produced to tolerances generally accepted within the industry. R & M STEEL'S sole liability under such warranty is limited to the repair or replacement of products deemed to be defective by R & M STEEL. R & M STEEL'S total liability is expressly limited to the said Customer's purchase price of the said product(s). No product shall be returned to R & M STEEL for warranty replacement without specific written approval by R & M STEEL. Upon prompt notice (see "Claims" below) of non-conformity and confirmation that the products have been properly stored, installed, maintained and operated, R & M STEEL may elect to either repair or replace such products. This warranty applies to materials only and does not include any labor expense or associated costs. If repair or replacement is made, R & M STEEL shall have reasonable time to make such repair or replacement f.o.b. R & M STEEL'S plant, freight allowed. This warranty is solely for the benefit of R & M STEEL'S customer (Customer) and shall not be transferable. If said Customer's own warranty is less than replacement to any third party, then R & M STEEL'S obligation shall be reduced accordingly.

There are NO implied warranties of merchantability, suitability or fitness for a particular purpose, usage or trade. R & M STEEL shall not be liable for any damages for failure to make shipments on time due to fire, strikes, lockouts, differences with workmen, accidents, war, insurrection, delays in transportation, equipment failure, shortage of cars, trucks, fuel or material, governmental interference or regulation, acts of God or any other contingencies beyond R & M STEEL'S control. In NO event shall R & M STEEL be liable for incidental or consequential damages NOR for any other loss or damage.

CLAIMS: Notice of defective materials/goods, including any shortages, must be given to R & M STEEL verbally within twenty-four (24) hours and confirmed in writing within seventy-two (72) hours of delivery. For this warranty to be honored by R & M STEEL, Customer must retain all Customer Purchase Order information, plus applicable R & M STEEL shipping memo(s) and Invoice identification numbers for verification and research. Any claims for water marking, staining and "white rusting" of material will not be honored by R & M STEEL. Submit claims to: R & M Steel Company, P. O. Box 580, Caldwell, ID 83606, Attn: Claims Coordinator Phone: 208-454-1800

If any legal action, including an action for declaratory relief, is brought to enforce or interpret the provisions of this warranty, the prevailing party will be entitled to reasonable attorney's fees, which may be set by the court in the same action or in a separate action brought for that purpose, in addition to any other relief to which that party may be entitled. The jurisdiction and venue of any court action will be in the Canyon County, Idaho, or such other forum as R & M STEEL may select.

The foregoing constitutes buyer's sole and exclusive remedy, whether in contract, tort or otherwise.

## GAUGE

R & M STEEL follows the national A.I.S.I. (American Iron and Steel Institute) specification manual for tolerances in galvanized sheet steel.

All gauges conform to ASTM A446 Grade E (80,000) min. yield) unless otherwise designated at time of order.

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## PRODUCT & PACKAGING CHARGES

All orders are custom cut.
Cover sheets at $1.75 per lineal foot. (Not sold for any other application)

## EXPORT CRATING

Flashing and trim, $4.50 per lineal foot of crate length.
Panels, $5.50 per lineal foot of crate length.

## TERMS OF PAYMENT

All accounts payable no later than the 10th of the month following purchase, with current credit account. All other accounts will be Cash On Delivery (C.O.D.).

## OPENING AN ACCOUNT

Accounts may be opened upon approval of a fully completed and properly signed R & M STEEL credit application. Please allow five days after submitting the application for approval of an initial order; with the final approval and establishment of a credit limit taking approximately three weeks. R & M STEEL can, at any time(s), suspend performance of any order or require cash payment or demand adequate assurance satisfactory to seller when, in seller's opinion, the financial condition of the buyer or other grounds for insecurity warrants such action.

## FREIGHT

We will be pleased to ship your order via common carrier, F.O.B. Caldwell, Idaho.

## WILL CALL

Every effort will be made to have your order ready for will call with a short 48-hour lead time. All orders for roll-formed panels are custom cut. Let us know when you want your order, and every effort will be made to have it ready. If possible we will have all items packed before you arrive so your loading time will be minimized.

***Thank You for Your Order !***

# TERMS AND CONDITIONS

R & M Steel Co P. O. Box 580 Caldwell, ID 83606 Phone: 208-454-1800 Fax: 208-454-1801 Toll Free Phone in the U.S.: 866-454-1800

1. **PRICE:** Prices are subject to adjustment by R & M Steel Co (Seller) in order to conform to Seller's prices in effect at date of shipment. Prices specified do not include any taxes (excise, privilege, occupation, sales, use, or other taxes payable on account), and all such taxes now in effect and/or hereafter levied which are applicable are in addition to such price and shall be paid by the Purchaser.
2. **TERMS OF PAYMENT:** All accounts are payable in U.S. funds at the office of the seller at Caldwell, Idaho, unless otherwise stated on the invoice. Payments on account by the Purchaser may, at the Seller's option be applied on the oldest unpaid items of account in order of original date. Cash prior to credit approval by Sellers Credit Department.
   Purchaser's financial responsibility is at all times subject to approval of Seller's Credit Department. All Payments shall be due in full in Caldwell, Idaho in accordance with terms stated on the face of the invoice.
   To qualify for a Payment Discount, all of the following must apply: a) The invoice must indicate that a discount is being offered, and b) the account must be current and without delinquency, and c) payment must be received by the discount date(s) as printed on the invoice.
   All unearned discounts and/or disallowed deductions are immediately due and payable and will be subject to standard delinquency and service charge guidelines and policies including suspension of open account privileges and a hold on shipping and production of new orders.
   A late charge of 1 ½ % per month (18% per annum) will be assessed on delinquent balances. Purchaser shall pay all attorney's fees and all other fees, costs, expenses of collection, lien filing fees, collection and legal costs in the event any matter shall be referred to a third party for collection, whether or not litigation is initiated. Purchaser understands and agrees that upon default in payment terms, that Seller will incur and Purchaser will pay additional in-house expense relating to the collection process in the minimum amount of $100.00, or 10% of the balance, not to exceed $1,000.00, whichever is greater, which is in addition to the fees, costs and charges referenced herein above. All unpaid late charges, service charges, and charges of any type will be subject to standard delinquency guidelines and policies, including suspension of open account privileges and a hold on shipping and production of new orders. If at any time the Seller believes that the financial responsibility of the Purchaser is impaired, the Seller shall have the right to cancel orders, discontinue shipments, require payments in advance and/or require other satisfactory security to guarantee that invoices will be paid promptly when due.
3. **SECURITY INTEREST:** As security for any and all amounts due Seller, Purchaser hereby grants to Seller a security interest in all equipment, supplies, merchandise, receivables, inventory and other goods of Purchaser and in the proceeds and products thereof; and at Seller's request, Purchaser shall, from time to time, execute and deliver Uniform Commercial Code Financing Statements to Seller for filing as a public record. Seller's security interest is junior to any conflicting security interest of Purchaser's commercial bank (if any such security interest now exists).
4. **HANDLING AND SHIPMENT OF CUSTOMER ORDERS:**
   A. **TELEPHONE ORDERS:**
   1) Purchaser assumes responsibility of the accuracy of orders placed by telephone unless a written confirmation is received prior to fabrication.
   2) When urgencies require verbal orders, your confirming order should be marked "Confirming Order – Do Not Duplicate."
      Seller recognizes the need of filling orders promptly and agrees that it will use its best efforts to make shipments on the dates specified by Purchaser, provided such dates are reasonable; but, Seller shall not be liable for any damages for failure to make shipments on time due to fire, strikes, lockouts, differences with workmen, accidents, war, insurrection, delays in transportation, equipment failure, shortage of cars, trucks, fuel or material, governmental interference or regulation, acts of God or any other contingencies beyond Seller's control.
   B. **DELIVERY & SHIPMENT:** Freight and transportation charges will be paid by Purchaser. Upon delivery of materials, f.o.b. carrier at Seller's plant, all risk of loss, damage and other incidents of ownership shall immediately pass to Purchaser, but title to such materials will be retained by Seller as security for Purchaser's performance until payment in full is received.
   C. **RETURNS:** All sales to Purchaser are final. Purchaser must obtain Seller's written authorization before returning any goods. Authorized returns are subject to a restocking charge of up to 50%.
5. **WARRANTY:**
   THE FOLLOWING IS IN LIEU OF ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO, ANY EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WARRANTIES MADE BY PURCHASER, OR ANY OTHER OBLIGATION ON THE PART OF THE SELLER.
   SELLER WARRANTS THAT AT THE TIME OF DELIVERY THE MATERIALS/GOODS DELIVERED UNDER THIS CONTRACT WILL CONFORM TO SPECIFICATIONS, AND WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.
6. **REMEDIES AND DAMAGES:**
   IF THE MATERIALS/GOODS FURNISHED BY SELLER FAIL TO CONFORM TO SUCH WARRANTY SELLER'S SOLE AND EXCLUSIVE LIABILITY SHALL BE TO REPAIR, REPLACE, OR UPON MUTUAL AGREEMENT TO CREDIT PURCHASER'S ACCOUNT FOR DEFECTIVE MATERIAL ONLY. THIS WARRANTY APPLIES TO MATERIALS ONLY AND DOES NOT INCLUDE ANY LABOR EXPENSE OR ASSOCIATED COSTS. IF REPAIR OR REPLACEMENT IS MADE, SELLER SHALL HAVE REASONABLE TIME TO MAKE SUCH REPAIR OR REPLACEMENT F.O.B. SELLER'S PLANT, FREIGHT ALLOWED. NOTICE OF DEFECTIVE MATERIALS/GOODS, INCLUDING ANY SHORTAGES, MUST BE GIVEN TO SELLER VERBALLY WITHIN TWENTY-FOUR (24) HOURS AND CONFIRMED IN WRITING WITHIN SEVENTY-TWO (72) HOURS OF DELIVERY. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR ANY BREACH OF THE PROVISIONS OF THIS CONTRACT INCLUDING, BUT NOT LIMITED TO, LOSS OF GOODWILL, LOSS OF PROFIT, LOSS OF USE OR LOSS OF CROPS.
   IN THE EVENT OF PURCHASER'S FAILURE OR REFUSAL TO ACCEPT MATERIALS ORDERED, SELLER MAY WITHOUT NOTICE RETAIN OR REPOSSESS SAID MATERIALS AND PURCHASER SHALL BE LIABLE FOR THE FULL PURCHASE PRICE, LESS ALLOWANCE FOR THE THEN CURRENT VALUE THEREOF AT THE MILL AFTER DEDUCTING FREIGHT, STORAGE, HANDLING, RESTOCKING CHARGES AND OTHER COSTS.
7. This Credit Application is the entire agreement between the parties and all sales to Purchaser from Seller shall be subject to this agreement and to the terms of Seller's invoices, sales confirmations, statements and its other account documents, and subject to the terms of no other form or document, including Purchaser's purchase orders or similar documents, and all prior verbal or written agreements between the parties are hereby merged into this agreement. In the event that there is any conflict between the terms of this agreement and Seller's invoices, this agreement shall control.
8. **ATTORNEYS' FEES:** If any legal action, including an action for declaratory relief, is brought to enforce or interpret the provisions of this agreement, the prevailing party will be entitled to reasonable attorney's fees, which may be set by the court in the same action or in a separate action brought for that purpose, in addition to any other relief to which that party may be entitled.
9. **GOVERNING LAW:** This agreement will be governed by and construed in accordance with the laws of the State of Idaho. The jurisdiction and venue of any court action will be in the Canyon County, Idaho, or such other forum as R & M Steel Co may select.

# CREDIT APPLICATION

Date: _____

R & M Steel Co. P.O. Box 580 Caldwell, ID 83606

Account No._____

Account Name_____

Street Address _____ Mailing Address_____

City_____ State _____ Zip_____

If Branch or Division, Location of Home Office _____

Type of Business _____ Federal I.D.#_____

Telephone_____ Cell_____ Fax_____

Corporation ☐ Partnership ☐ Proprietorship ☐ Years in Business _____

Incorporation Date _____ State_____ Tax Exempt ? _____ If Yes, Attach Copy

| Owners / Officers | Social Security # | Address | Position |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

| Commercial Bank References | Address | Phone | Officer | Account# |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |

Type of account: Checking ☐ Savings ☐ Loan ☐

| Largest Secured Creditors / Loans, etc. (Include Amount) | Address | Phone | Account # |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |

Trade References

1. Name_____
   Address_____
   City_____ State_____
   Phone_____ Fax_____

2. Name_____
   Address_____
   City_____ State_____
   Phone_____ Fax_____

3. Name_____
   Address_____
   City_____ State_____
   Phone_____ Fax_____

4. Name_____
   Address_____
   City_____ State_____
   Phone_____ Fax_____

Are Purchase Orders Required: YES _____ NO_____

Person To contact Regarding Accounts Payable _____

Current Financial Statements: Attached ☐ Will Mail Direct ☐

Anticipated Monthly Credit Requests: $ _____

I certify that all of the information provided in or in connection with this application is complete and correct. I understand that the information furnished you is for the purpose of requesting credit from your firm. I am authorized, in my capacity, to bind my firm accordingly. I hereby authorize R & M Steel Co to obtain any information necessary to process this application and authorize any person or credit reporting agency to complete or furnish R & M Steel Co any information it may have or obtain in response to R & M Steel Co's credit and/or criminal inquiries. I understand that R & M Steel Co will retain this application and all other information it receives, whether or not the application is approved. **BY MY SIGNATURE BELOW, I CERTIFY THAT I HAVE READ THE TERMS AND CONDITIONS ON THE BACK AND HEREBY AGREE TO THEM.**

FIRM _____

SIGNED BY _____ PRINT NAME_____

TITLE _____ DATE_____

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   A late charge of 1 ½ % per month (18% per annum) will be assessed on delinquent balances. Purchaser shall pay all attorney's fees and all other fees, costs, expenses of collection, lien filing fees, collection and legal costs in the event any matter shall be referred to a third party for collection, whether or not litigation is initiated. Purchaser understands and agrees that upon default in payment terms, that Seller will incur and Purchaser will pay additional in-house expense relating to the collection process in the minimum amount of $100.00, or 10% of the balance, not to exceed $1,000.00, whichever is greater, which is in addition to the fees, costs and charges referenced herein above. All unpaid late charges, service charges, and charges of any type will be subject to standard delinquency guidelines and policies, including suspension of open account privileges and a hold on shipping and production of new orders. If at any time the Seller believes that the financial responsibility of the Purchaser is impaired, the Seller shall have the right to cancel orders, discontinue shipments, require payments in advance and/or require other satisfactory security to guarantee that invoices will be paid promptly when due.
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   THE FOLLOWING IS IN LIEU OF ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO, ANY EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WARRANTIES MADE BY PURCHASER, OR ANY OTHER OBLIGATION ON THE PART OF THE SELLER.
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R & M STEEL COMPANY

STEEL BUILDING SYSTEMS

# Color Availability Chart

**You May Call, Fax or Email Your Order.**
**Thank You for Your Business.**


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Fax: 208-454-1801 Toll Free Fax: 1-866-454-1801
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**Please inquire about color availability of profiles not shown in stock (x).**

| PANELS | PBR 36 A 36 WW | PBR 36 A 36 WW | PBR 36 | A 16 | PRIME RIB | TS 324 | VS 216 |
|---|---|---|---|---|---|---|---|
| AVAILABLE COLORS | 26 GA. | 24 GA. | 29 GA. | 26 GA. | 29 GA. | 24 GA. | 24 GA. |
| GALVALUME PLUS | X | | X | | X | X | |
| ASH GRAY | | | | | | X | |
| BROWN | X | | | X | X | | |
| COPPER | X | | | X | X | | X |
| COPPER PENNY | | | | X | X | | |
| DARK BLUE | X | | | X | X | | |
| GRAY | X | | | X | X | | |
| HUNTER GREEN | | | | | X | | |
| IVORY | X | X | | | X | | |
| KELLY GREEN | X | | | X | X | X | X |
| LIGHT BLUE | X | | | | | | |
| LIGHT STONE | X | | | X | X | | |
| PACIFIC WHITE | X | | | X | X | X | |
| RED | X | | | X | X | | |
| SAGE GREEN | X | | | X | X | | |
| SAND GOLD | X | | | | | | |
| SANDSTONE BEIGE | X | | | | X | | |
| WHITE | X | X | X | | X | | |


Rev. #6 Revised 01/31/13




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Email: sales@rmsteel.com

***INVOICE*** _____

***INVOICE DATE***

***SOLD*** _____ ***SHIP*** _____

***TO:*** _____ ***TO:*** _____

_____ _____

_____ _____

**PH:** _____ **FAX:** _____ PH: _____

***ORDERED BY:*** _____ **CELL** _____ ***SALES PERSON:*** _____

***P.O. #:*** **TOTAL WGT. (LBS):** ***SHIP VIA:***

***JOB NAME:*** ***ORDER DATE:*** ***SHIP DATE:***

| QTY | DESCRIPTION | GA | COLOR | LENGTH FEET | LENGTH INCH | UNIT PRICE | EXT PRICE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
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**ALL ACCOUNTS PAYABLE NO LATER THAN THE 10TH OF THE MONTH FOLLOWING PURCHASE WITH CURRENT ACCOUNT.**

**A FINANCE CHARGE** IS COMPUTED BY A PERIODIC RATE OF **1 1/2%** PER MONTH, WHICH IS **AN ANNUAL PERCENTAGE RATE** OF **18%** ON ALL PAST DUE ACCOUNTS. COURT COSTS AND ATTORNEY'S FEES WILL BE CHARGED IF NECESSARY TO COLLECT BY LEGAL MEANS.

| | |
|---|---|
| MERCHANDISE TOTAL | |
| SALES TAX % | |
| TRANSPORTATION | |
| TOTAL | |

**REC'D BY** **DATE:**

NOTICE: CLAIMS MUST BE MADE WITHIN FIVE DAYS AFTER RECEIPT OF GOODS. NO MERCHANDISE ACCEPTED FOR CREDIT WITHOUT R & M STEEL CO. PRIOR APPROVAL.

R & M STEEL CO

STEEL BUILDING COMPONENTS

# SPECIAL TRIM DETAILS

Thank you for your business.
To place an order, you may:

**Phone: 1-208-454-1800 Toll Free: 1-866-454-1800**
**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**
**Email: sales.rmsteel@gmail.com**

CUSTOMER NAME: _____

DATE: _____ PO#: _____ PAGE #: _____

**PIECE MARK**_____

**QTY:** **COLOR:** **GAUGE:** **LENGTH:**

**PIECE MARK**_____

**QTY:** **COLOR:** **GAUGE:** **LENGTH:**

R & M STEEL CO

STEEL BUILDING COMPONENTS

# SECONDARY FRAMING

Thank you for your business.
To place an order, you may:

**Phone: 1-208-454-1800 Toll Free: 1-866-454-1800**
**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**
**Email: sales.rmsteel@gmail.com**

## C & Z SECTIONS

| SIZE | GAUGE | PRODUCT | |
|---|---|---|---|
| 4 x 2.5 | 16 | Red Oxide | |
| 4 x 3.5 | 16 | Red Oxide | |
| 6 x 2.5 | 16 | Red Oxide | |
| 6 x 2.5 | 14 | Red Oxide | |
| 6 x 2.5 | 12 | Red Oxide | |
| 8 x 2.5 | 16 | Red Oxide | Galvanized |
| 8 x 2.5 | 15 | Red Oxide | |
| 8 x 2.5 | 14 | Red Oxide | Galvanized |
| 8 x 2.5 | 13 | Red Oxide | |
| 8 x 2.5 | 12 | Red Oxide | Galvanized |
| 8 x 3.5 | 14 | Red Oxide | |
| 8 x 3.5 | 12 | Red Oxide | |
| 10 x 2.5 | 14 | Red Oxide | |
| 10 x 2.5 | 12 | Red Oxide | Galvanized |
| 10 x 3.5 | 14 | Red Oxide | Galvanized |
| 10 x 3.5 | 12 | Red Oxide | |
| 12 x 2.5 | 14 | Red Oxide | |
| 12 x 2.5 | 12 | Red Oxide | |
| 12 x 3.5 | 14 | Red Oxide | Galvanized |
| 12 x 3.5 | 12 | Red Oxide | |
| 14 x 3.5 | 14 | Red Oxide | |
| 14 x 3.5 | 12 | Red Oxide | |

**NOTE: Standard Punching Included**

R & M STEEL CO
STEEL BUILDING COMPONENTS

# VS-216 (24-GA) Standing Seam Roof

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**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**
**Email: sales.rmsteel@gmail.com**

## R & M STEEL VS-216 STANDING SEAM ROOF

### 1) GENERAL:

- Specifically included are panels, panel clips, flashing, panel splices, ridge material and all necessary fasteners.
- Minimum roof slope is 1/2" in 12".
- Panels are rated for UL90® uplift rating UL580 when installed to roof support members spaced as listed in UL Construction Listing #332, supported at a maximum of 5'-0" on center by either joists or purlins.

### 2) PANEL MATERIAL:

- R & M Steel VS-216 Standing Seam Roof profile shall be precision roll-formed from 24 gage Galvalume® AZ50 or AZ55 aluminum-zinc alloy-coated steel sheet with a minimum yield strength of 50 ksi in accordance with ASTM A-792, Grade 50, Class 2. It has a coating thickness of .50 oz. to .55 oz per square foot.
- Roof panels provided by R & M Steel for exterior use are precision roll-formed from pre-painted Galvalume® aluminum-zinc alloy-coated steel coils. Coils to receive finish paints are subjected to a strenuous cleaning process prior to coating. Next, the coils are prime coated and oven cured. The finish coat is then applied and monitored for proper oven-cure temperature and color uniformity. Finished material is subjected to stringent quality control tests including: physical bend and impact resistance, film thickness, hardness, gloss and color. This process is time-tested and uses a Ceram-A-Star 1050 topcoat. A 70% Kynar 500® finish is available at an additional cost upon request. VS-216 gutter brackets are provided as the same color as the roof. VS-216 ridge closure zees are provided unpainted but a roof colored cover flash is provided.
- Panel are not factory-punched or notched.
- Panel sidelaps shall have factory-applied non-skinning Butyl mastic.

### 3) PANEL CONFIGURATION

- Panels shall have 2" deep vertical ribs spaced 16" on center. Striated or Pencil Rib pans are available. Buildings with Pencil Rib panels cannot be supplied on buildings *with* endlaps. The upper panels on buildings with endlaps need to be swaged. Swaging on Pencil Ribbed panels is not available.

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## 4) PANEL CLIP & FASTENERS

- Floating panel clips shall be used and shall be self-centering and allow for up to 1" expansion and/or contraction of total movement from the centered position. The clip design shall insure that movement does not occur between the panel and clip.
- The panel clips shall have factory-punched holes in the top of the clip to allow the sidelap sealant to flow when installed. This is to insure a continuous weather-tight seal along the panel seam.
- Each clip shall be attached to the joist or purlin with two fasteners. Size and type will. be recommended by R & M Steel for the specific application. Clip fasteners for retrofit applications are not by R & M Steel and must be specified by the owner or his agent.
- Panel endlap fasteners shall be a 1/4-14 self-drilling carbon steel screw, hex washer head, 1-1/4" long. Fastener shall have a 20-year corrosion resistant coating.

## 5) TRIM AND FLASHING

- Color-coated trim and flashing shall be 26 gage. Trim shall be provided at eave, ridge, rake and where necessary to ensure a properly constructed building.
- High eave flashing and flashing parallel to the roof panels shall accommodate the thermal expansion and contraction of the roof without damage to the roof panels or flashing. Counter-flashing for parapet conditions and flash to existing buildings are not provided by R & M Steel.
- All exposed trim and flashing material shall be manufactured from galvanized or Galvalume® steel strip.
- Exterior gutters and gable flash shall typically be manufactured in 20' lengths wherever possible.

## 6) INSTALLATION

- Storage and installation of the roofing system shall be in accordance with R & M Steel's printed instructions.
- The R & M Steel VS-216 Roof hand crimper is specially designed for use with R & M Steel's VS-216 Standing Seam Roof. Under no circumstances shall the R & M steel crimper be used on any other manufacturer's roof system. In addition, under no circumstances is another manufacturer's crimper to be used on R & M Steel's VS-216 Standing Seam Roof (even if they appear to be the same). Permanent damage to the seam and/or the panel finish may occur if the R & M Steel crimping tool is not used and shall void all warranties.
- The panel splice shall have a 0.060" prime painted back-up plate.
- Panel splice shall be sealed with pre-cut tape mastic and butyl tube caulk.
- Standard maximum panel length shall be 50'-0".
- The use of cutting tools that damage the panel finish shall not be allowed.
- Panels shall not be marked with any graphite or lead markers.

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## 7) CLEAN-UP

- Roof surface should be cleaned daily during construction of all filings, cuttings, screws, pencil markings and debris to prevent damage due to oxidation of foreign materials.
- Contractor shall thoroughly clean all panels, trim, and gutters of all foreign material upon completion of construction.

## 8) MAINTENANCE

- The owner shall keep the roof free and clean of debris and corrosive materials at all times.
- Gutters and downspouts shall be cleaned periodically and kept free-flowing at all times.
- Flashing and sheeting interfaces shall be inspected yearly to ensure connection and water-tightness.
- Endlaps, eaves, ridges, curbs, translucent panels and other interfaces shall be inspected and maintained yearly. Normal adjustments or tightening of fasteners may be required.
- The use of tar and other topical applied products shall not be permitted unless specified by the manufacturer.
- Copper, lead flashing, exposed iron, or debris shall not be permitted on the roof.
- Pipes to and supports for roof-supported units shall be of a non-corrosive or rust-free material. Field painting of pipes and supports may be required to resist corrosion. Condensation from roof-top units shall be piped to interior or exterior locations. Damage due to condensate water is not covered under manufacturer's warranty.

## 9) ERECTION SEQUENCE

- Buildings with the R & M Steel VS-216 Standing Seam Roof *without* an endlap are designed to be erected starting from either end of the building. Buildings that have an end lap will have swaged panels and will need to be erected right to left. In those cases, it will be noted as such on the erection drawings.
- Sequencing of steel shall be clearly marked on the order documents at the time of order entry.

## 10) COORDINATION WITH OTHER TRADES

- Supports for the R & M Steel VS-216 Standing Seam Roof shall be provided and are required as shown in the drawings and as noted in these specifications. All necessary clearance dimensions for proper elevations relative to the roof panels have been shown. The customer shall be responsible for coordinating these dimensional requirements with other trades associated with the building roof system.

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## 11) ERECTION CARE

- The erector must be skilled in the erection of metal building systems and is responsible for complying with all applicable local, federal and state construction and safety regulations. This includes OSHA regulations as well as any applicable requirements of local, national, or international union rules or practices. The Erector remains solely responsible for the safety and appropriateness of all techniques and methods utilized by its crews in the erection of the metal building system and/or the VS-216 Roof. The Erector is also responsible for supplying any safety devices such as scaffolds, runways, nets, etc., which may be required by the governing codes to safely erect the metal building system and/or VS-216 Roof.
- Anchorage for safety devices may be added at an additional cost provided specific connections are designed and clearly noted on the order documents. All anchorage points must be noted with exact location, magnitude and direction of force for a fully-braced structure.
- The erector of the R & M Steel VS-216 Standing Seam Roof shall exercise great care and attention to the details as shown on the erection drawings and in the R & M Steel VS-216 Standing Seam Roof Installation Guide to insure a secure and proper fit of all components. R & M Steel shall not be responsible for supervising and/or coordinating the erection of the VS-216 Standing Seam Roof with other trades. Erection drawings take precedence when a situation differs from that shown in the Installation Guide.
- Due consideration must be given by the erector to the effects of thermal expansion and contraction when erecting a roof tie-in to an existing structure to insure a safe, secure, weather-tight condition. Flashing for tie-ins to existing buildings is typically not included as part of the material provided by R & M Steel. Refer to the sections and details for specific materials provided by R & M Steel.
- The erector acknowledges that all details for all conditions can not be noted on the plans and that due care and judgment are required to make a safe and watertight condition. Sealants and caulks may be required based upon actual conditions encountered.

## 12) FIELD-CUTTING OF PANELS

- When field-cutting or mitering R & M Steel VS-216 roof panels, non-abrasive cutting tools such as nibblers or tin-snips shall be used. Abrasive cutting tools such as mechanical grinders, saws, shears, or scissors can damage the Galvalume® or painted finish and create excess metal shavings that can corrode the panels. The use of non-approved cutting devices may void your manufacturer's warranty.

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## 13) ROOF-TOP UNITS AND CURB SUPPORTS

- The R & M Steel VS-216 Standing Seam Roof Curb Framing System is level with roof secondary structural members. The outer roof curb, in a double curb system, will have channels attached to accommodate the clip off set of 1/2" for short clips and 1-1/2" for tall clips. Refer to the details for proper dimensions.
- The R & M Steel VS-216 Standing Seam Roof is designed as a floating system. Curb framing and flashing must be designed accordingly to allow the curb system to float with the VS-216 Roof during thermal expansion and contraction.
- Roof curbs should be laid out maintaining a "3-purlin-space" rule. This rule is that a roof curb should always be located a distance of at least the equivalent of three purlin spaces from the ridge or eave of a building and from any adjacent roof openings or curbs.

R & M STEEL CO
STEEL BUILDING COMPONENTS

# TS-324 (24-GA) Standing Seam Roof

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## R & M STEEL TS-324 STANDING SEAM ROOF

### 1) GENERAL:

- Specifically included are panels, panel clips, flashing, panel splices, ridge material and all necessary fasteners.
- Minimum roof slope is 1/4" in 12".
- Panels are rated for UL90® uplift rating UL580 when installed to roof support members spaced as listed in UL Construction Listing #552, supported at a maximum of 5'-0" on center by either joists or purlins.
- Panels have an FM1-120 uplift rating when installed to roof support members spaced at a maximum of 5'-0" on center by either joists or purlins

### 2) PANEL MATERIAL:

- R & M Steel TS-324 profile shall be precision roll-formed from 24 gage steel. Galvalume® steel sheeting is aluminum-zinc coated steel alloy coated steel sheet with a minimum yield strength of 50 ksi in accordance with ASTM A-792, Grade 50. It has a coating thickness of .55 oz. per square foot.
- Roof panels provided by R & M Steel for exterior use are precision roll-formed from pre-painted Galvalume® coils. Coils to receive finish paints are subjected to a strenuous cleaning process prior to coating. Next, the coils are prime coated and oven cured. The finish coat is then applied and monitored for proper oven-cure temperature and color uniformity. Finished material is subjected to stringent quality control tests including: physical bend and impact resistance, film thickness, hardness, gloss and color. This process is time-tested and uses a Ceram-A-Star 1050 topcoat. TS-324 roof accessories (end dams, cinch straps, gutter brackets) are provided as unpainted.
- Panel shall be factory-punched and notched at ridge, high side and lap locations.
- Panel sidelaps shall have factory-applied non-skinning Butyl mastic.

### 3) PANEL CONFIGURATION

- Panels shall have 3" deep trapezoidal ribs spaced 24" on center. Three minor ribs are spaced in the flat of the panel between the major ribs.

### 4) PANEL CLIP & FASTENERS

- Fixed panel clips shall only be used with panel runs of less than 120'. Floating panel clips shall be used up to a 250' panel run and shall be self-centering and allow for up to 1-1/2" expansion and/or contraction of total movement from the centered position. The clip design shall insure that movement does not occur between the panel and clip.
- The panel clips shall have factory-applied mastic to insure a weather-tight installation.
- Each clip shall be attached to the joist or purlin with two fasteners. Size and type will be recommended by R & M Steel for the specific application.
- Panel endlap fasteners shall be a No. 17 self-tapping carbon steel screw, hex washer head, 1-1/4" long. Fastener shall have a 20-year corrosion resistant coating.

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## 5) TRIM AND FLASHING

- Color-coated trim and flashing shall be 26 gage. Trim shall be provided at eave, ridge, rake, and where necessary to ensure a properly constructed building.
- High eave flashing and flashing parallel to the roof panels shall accommodate the thermal expansion and contraction of the roof without damage to the roof panels or flashing.
- All exposed trim and flashing material shall be manufactured from galvanized or Galvalume® steel strip.
- Exterior gutters and gable flash shall typically be manufactured in 20' lengths wherever possible.

## 6) INSTALLATION

- Storage and installation of the roofing system shall be in accordance with R & M Steel's printed instructions.
- The R & M Steel TS-324 Roof hand crimper is specially designed for use with R & M Steel's TS-324 Standing Seam Roof. Under no circumstances shall the R & M steel crimper be used on any other manufacturer's roof system. In addition, under no circumstances is another manufacturer's crimper to be used on R & M Steel's TS-324 Standing Seam Roof (even if they appear to be the same). Permanent damage to the seam and/or the panel finish may occur if the R & M Steel crimping tool is not used and shall void all warranties.
- The panel splice shall have a 0.060" galvanized steel back-up plate and a 0.090" aluminum cinch strap.
- The back-up plate and cinch strap shall be factory-punched to ensure proper fit.
- Panel splice shall be sealed with pre-cut tape mastic.
- Standard maximum panel length shall be 70'-0".
- The use of cutting tools that damage the panel finish shall not be allowed.
- Panels shall not be marked with any graphite or lead markers.

## 7) CLEAN-UP

- Roof surface should be cleaned daily during construction of all filings, cuttings, screws, pencil markings and debris to prevent damage due to oxidation of foreign materials.
- Contractor shall thoroughly clean all panels, trim, and gutters of all foreign material upon completion of construction.

## 8) MAINTENANCE

- The owner shall keep the roof free and clean of debris and corrosive materials at all times.
- Gutters and downspouts shall be cleaned periodically and kept free-flowing at all times.
- Flashing and sheeting interfaces shall be inspected yearly to ensure connection and water-tightness.
- Endlaps, eaves, ridges, curbs, translucent panels and other interfaces shall be inspected and maintained yearly. Normal adjustments or tightening of fasteners may be required.
- The use of tar and other topical applied products shall not be permitted unless specified by the manufacturer.
- Copper, lead flashing, exposed iron, or debris shall not be permitted on the roof.
- Pipes to and supports for roof-supported units shall be of a non-corrosive or rust-free material. Field painting of pipes and supports may be required to resist corrosion. Condensation from roof-top units shall be piped to interior or exterior locations. Damage due to condensate water is not covered under manufacturer's warranty.

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## 9) ERECTION SEQUENCE

- The R & M Steel TS-324 Standing Seam Roof is designed to be erected starting from either end of the building. In rare cases, due to the building layout, it may be required to start erection from a specified end. In those cases, it will be noted as such on the erection drawings.
- Sequencing of steel shall be clearly marked on the order documents at the time of order entry.

## 10) COORDINATION WITH OTHER TRADES

- Supports for the R & M Steel TS-324 Standing Seam Roof shall be provided and are required as shown in the drawings and as noted in these specifications. All necessary clearance dimensions for proper elevations relative to the roof panels have been shown. The customer shall be responsible for coordinating these dimensional requirements with other trades associated with the building roof system.

## 11) ERECTION CARE

- The erector must be skilled in the erection of metal building systems and is responsible for complying with all applicable local, federal and state construction and safety regulations. This includes OSHA regulations as well as any applicable requirements of local, national, or international union rules or practices. The Erector remains solely responsible for the safety and appropriateness of all techniques and methods utilized by its crews in the erection of the metal building system and/or the TS-324 Roof. The Erector is also responsible for supplying any safety devices such as scaffolds, runways, nets, etc., which may be required by the governing codes to safely erect the metal building system and/or TS-324 Roof.
- Anchorage for safety devices may be added at an additional cost provided specific connections are designed and clearly noted on the order documents. All anchorage points must be noted with exact location, magnitude and direction of force for a fully-braced structure.
- The erector of the R & M Steel TS-324 Standing Seam Roof shall exercise great care and attention to the details as shown on the erection drawings and in the R & M Steel TS-324 Standing Seam Roof Installation Guide to insure a secure and proper fit of all components. R & M Steel shall not be responsible for supervising and/or coordinating the erection of the TS-324 Standing Seam Roof with other trades. Erection drawings take precedence when a situation differs from that shown in the Installation Guide.
- Due consideration must be given by the erector to the effects of thermal expansion and contraction when erecting a roof tie-in to an existing structure to insure a safe, secure, weather-tight condition. Flashing for tie-ins to existing buildings is typically not included as part of the material provided by R & M Steel. Refer to the sections and details for specific materials provided by R & M Steel.
- The erector acknowledges that all details for all conditions can not be noted on the plans and that due care and judgment are required to make a safe and watertight condition. Sealants and caulks may be required based upon actual conditions encountered.

## 12) FIELD-CUTTING OF PANELS

- When field-cutting or mitering R & M Steel TS-324 roof panels, non-abrasive cutting tools such as nibblers or tin-snips shall be used. Abrasive cutting tools such as mechanical grinders, saws, shears, or scissors can damage the Galvalume® or painted finish and create excess metal shavings that can corrode the panels. The use of non-approved cutting devices may void your manufacturer's warranty.

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## 13) ROOF-TOP UNITS AND CURB SUPPORTS

- The R & M Steel TS-324 Standing Seam Roof Curb Framing System is level with roof secondary structural members. The outer roof curb, in a double curb system, will have channels attached to accommodate the clip off set of 1/2" for short clips and 1-1/2" for tall clips. Refer to the details for proper dimensions.
- The R & M Steel TS-324 Standing Seam Roof is designed as a floating system. Curb framing and flashing must be designed accordingly to allow the curb system to float with the TS-324 Roof during thermal expansion and contraction.
- Roof curbs should be laid out maintaining a "3-purlin-space" rule. This rule is that a roof curb should always be located a distance of at least the equivalent of three purlin spaces from the ridge or eave of a building and from any adjacent roof openings or curbs.

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STEEL BUILDING COMPONENTS

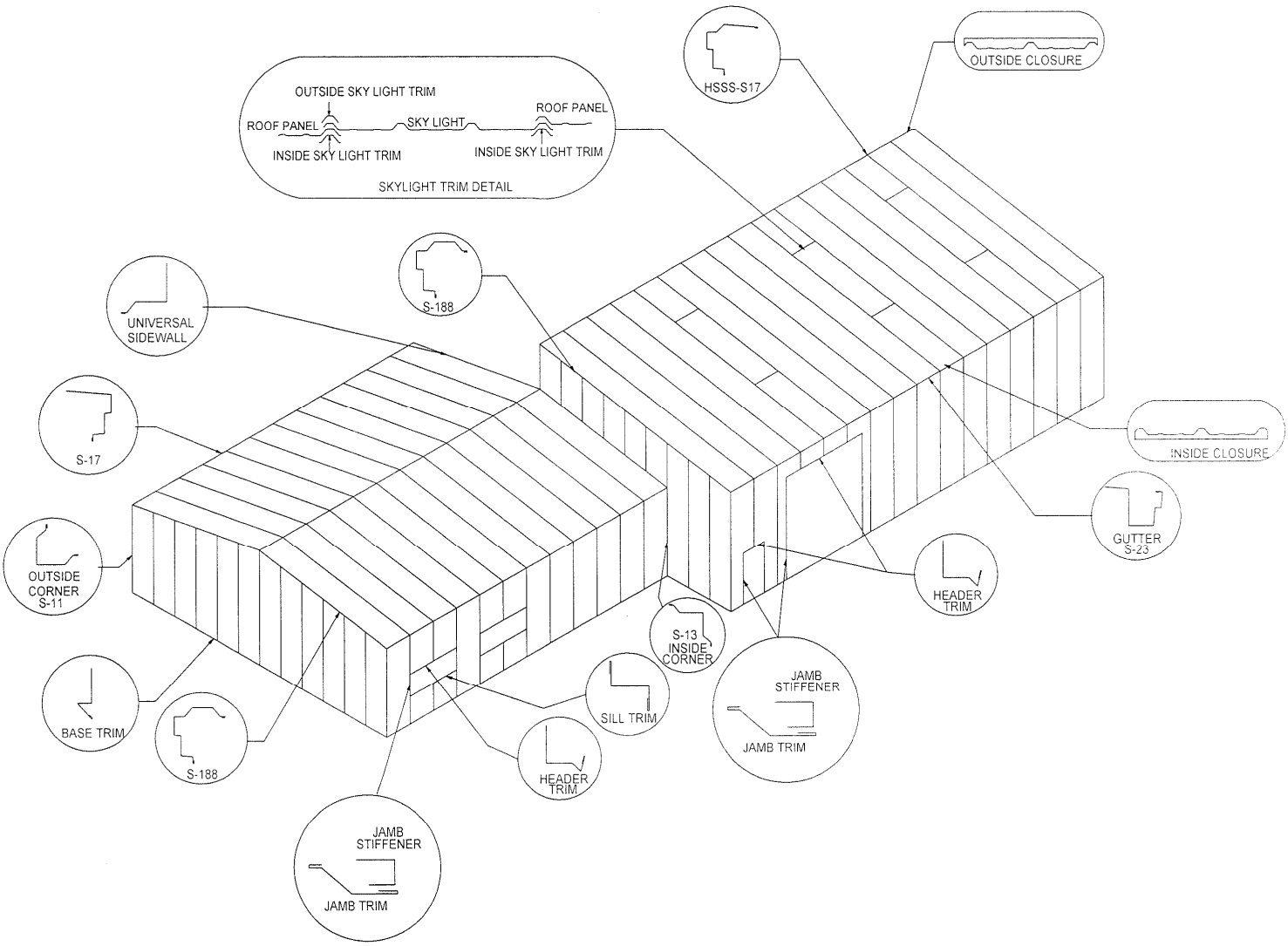
# PBR-36 (26-GA) Components & Applications

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# PBR-36

## Commercial 26-Gauge
## Trim and Accessories



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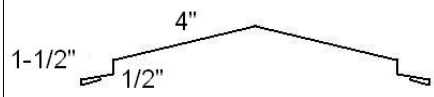
STEEL BUILDING COMPONENTS

# PBR-36 (26-GA) Commercial Trim Selection

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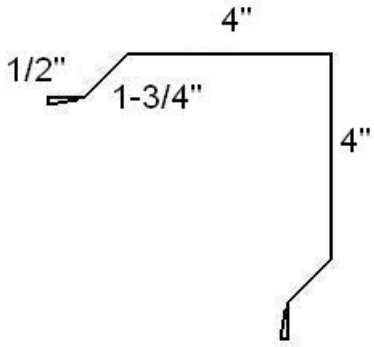
## Universal Ridge



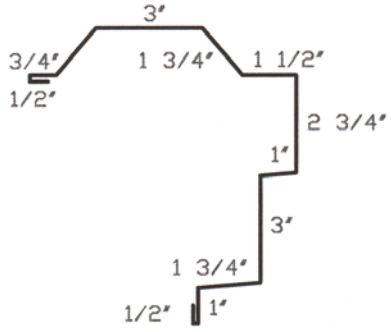

## Die Formed Ridge



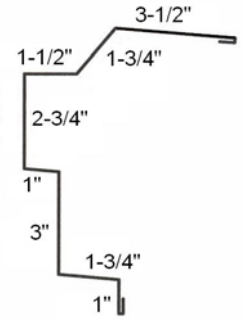

## S-11 Outside Corner



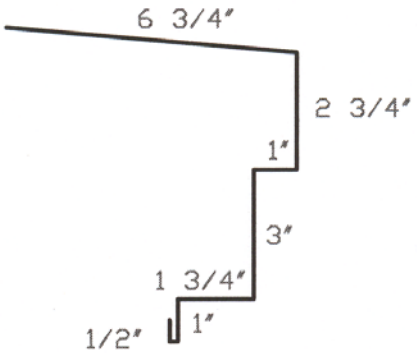

## S-188 Gable Trim



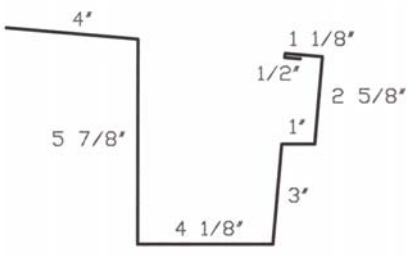

## HSSS S-17 High Side Single Slope Eave Trim



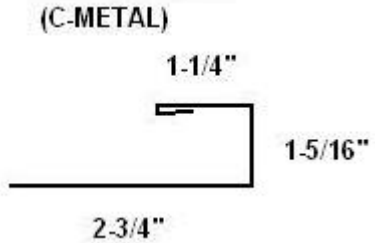

## S-17 Eave Trim



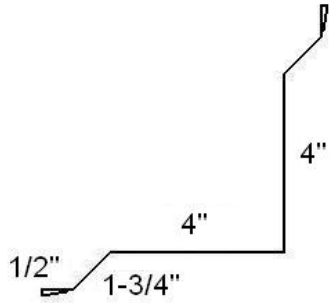

## S-23 Gutter




## S-58 Panel Cap




## S-13 Inside Corner



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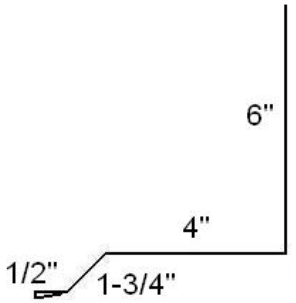
STEEL BUILDING COMPONENTS

# PBR-36 (26-GA) Commercial Trim Selection

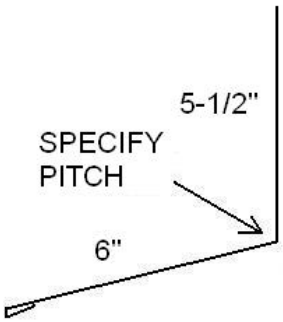
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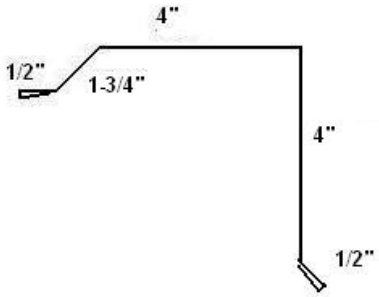
## Commercial Sidewall



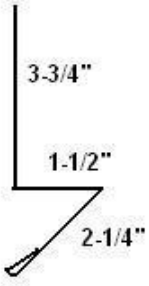

## Endwall Flashing



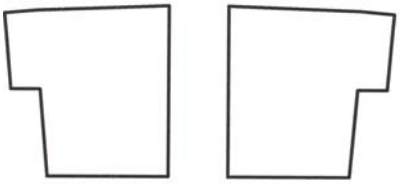

## Commercial Mini-Gable



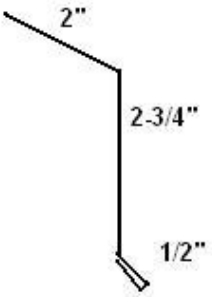

## Base Trim




## Gutter End Caps

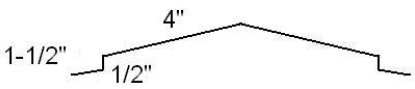


## Mini Eave

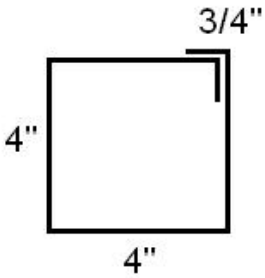



**CURRENTLY NOT AVAILABLE**

## Universal Ridge Cap
**(ROLLFORMED)**

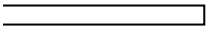



## Downspouts

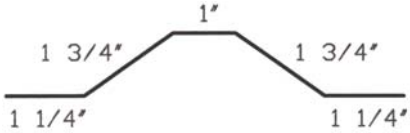



## Gutter Straps

**Standard Flat**
**1”**



**Optional Formed**



R & M STEEL CO

STEEL BUILDING COMPONENTS

# PBR-36 (26-GA) Commercial Trim Selection

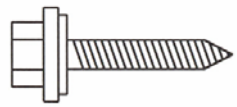
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**Sold in Bags of 250 Pieces**

## Metal-to-Wood

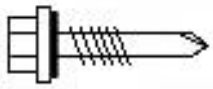
Wood Fast Self-Drilling
1/4" Head



| Galvanized or Painted | Carton Qty. |
|---|---|
| 12-14 x 3/4" Stitch | 4000 |
| 9 x 1 | 2500 |
| 9 x 1-1/2 | 2000 |
| 9 x 2 | 2000 |
| 9 x 2-1/2 | 1500 |
| 9 x 3 | 1000 |

## Metal-to-Metal TEKS®

Self-Drilling 5/16 Head



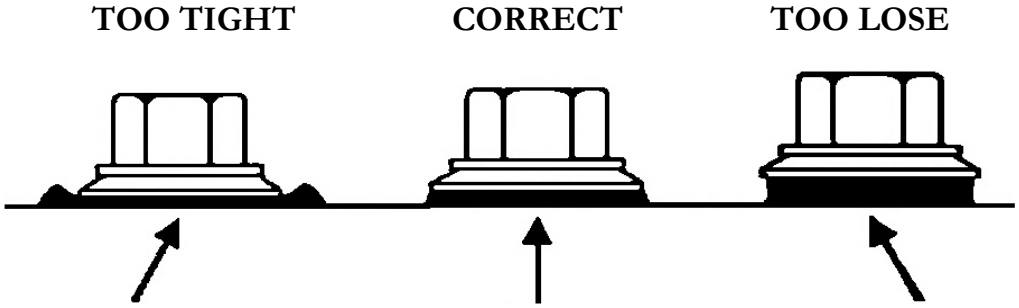
| Galvanized or Painted | Carton Qty. |
|---|---|
| 12-14 x 1-1/4" | 2500 |
| 12-14 x 1-1/2" | 2000 |
| 4 x 7/8 Lap TEK | 2500 |
| 12-24 x 1-1/2 TEK #5 | 2000 |

## Pop Rivets



| Painted | Carton Qty. |
|---|---|
| 1/8" Diameter x 1/8" Grip | 1000 |

**MAXI SEAL SCREW**




Metal Washer Deformed – Sealing Material Extruded Beyond Edge of Washer

Sealing Material. Slightly Visible at Edge Of Metal Washer - Assembly is Weather Tight

Sealing Material Not Visible – Not Enough Compression to Seal Properly

**NOTE**: **Roof**: approx. **80** fasteners required per square
**Wall**: approx. **60** fasteners required per square

R & M STEEL CO

STEEL BUILDING COMPONENTS

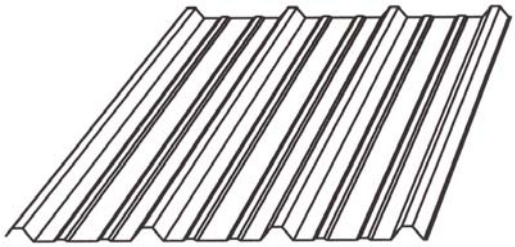
# PBR-36 (26-GA) Accessories

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## SUNSKY 12™

**Clear Polycarbonate Panels 11'**





**Vented Formed Closure**



**Outside Closure w/Adhesive**



**Inside Closure w/Adhesive**

## CLOSURES

| | |
|---|---|
| Formed Closure (Inside or Outside) | 100 per Carton |
| Vented Formed Closure | 25 per Carton |
| Universal Closure 1-1/2" x 1-1/2" x 25' | 30 per Carton |
| Universal Closure 2" x 2" x 25' | 10 per Carton |

## BUTYL SEALANT

| | |
|---|---|
| 3/4 x 3/32 x 45' | 24 Rolls per Carton |
| 7/8 x 3/16 x 40' (TS-324) | 10 Rolls per Carton |
| 5/32 x 3/16 x 11/32 x 1-1/4 x 30' Triple Bead (TS-324) | 16 Rolls per Carton |

## WALK DOORS

| **Universal Swing Insulated Door**<br>Frame kit consists of white 8-1/4" frame, hinges, lever-lock, weather strip, and threshold. | |
|---|---|
| **Size** | **Options** |
| 3070 | |
| 3070 | Mortise Lock Prep |
| 3070 with ½ glass | |
| 4070 | |
| 6070 | |

R & M STEEL CO

STEEL BUILDING COMPONENTS

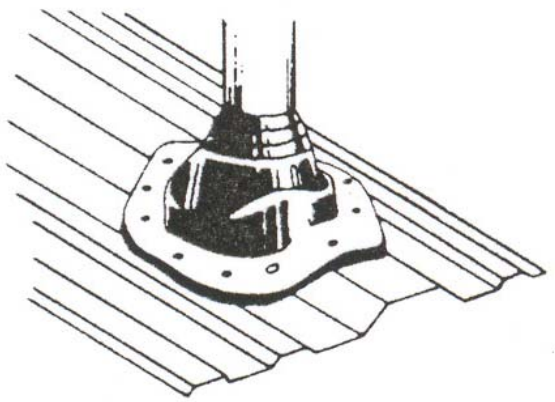
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## PIPE FLASHING

- Fits all sheet profiles
- Takes all types of pipe
- Waterproof and dustproof
- Easily attached to pipe
- Temperature range: -90ºF to 250º
- Available High-Temp up to 450º



| Size | Base Diameter | Pipe Size |
|---|---|---|
| #1 | 4 ¾" | ¾" - 2" |
| #2 | 6 ¾" | 1 ¾" - 3 ¼" |
| #3 | 7 ¾" | ¼" - 4" |
| #4 | 9 ¼" | 3" - 6" |
| #5 | 10 ¾" | 4 ¼" - 7 ½" |
| #6 | 12 ½" | 5" - 9" |
| #7 | 14 ½" | 6" - 11" |
| #8 | 16 ½" | 7" - 13" |

## DIRECTIONS

- Before cutting hole in sheet consider the best position to suit the size of flasher selected.
- Cut a neat hole with minimum clearance for pipe and install pipe.
- Rubber sleeve should be a watertight fit on pipe. If rubber has to be cut to suit pipe size, use a sharp pair of scissors and avoid nicks.
- Apply silicone sealant to underside of base and using water as a lubricant, slide flashing along pipe until it meets sheet.
- Press base into contours of sheet by hand.
- Drill two holes opposite each other and fasten. Progressively complete the fastening by pressing base firmly to sheet to avoid gaps. If there is a sharp corner in the valley, use a blunt tool to press the base into place.
- Dress excess silicone caulk around flasher base for attractive professional finished installation.

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STEEL BUILDING COMPONENTS

# PBR-36 (29-GA) Components & Applications

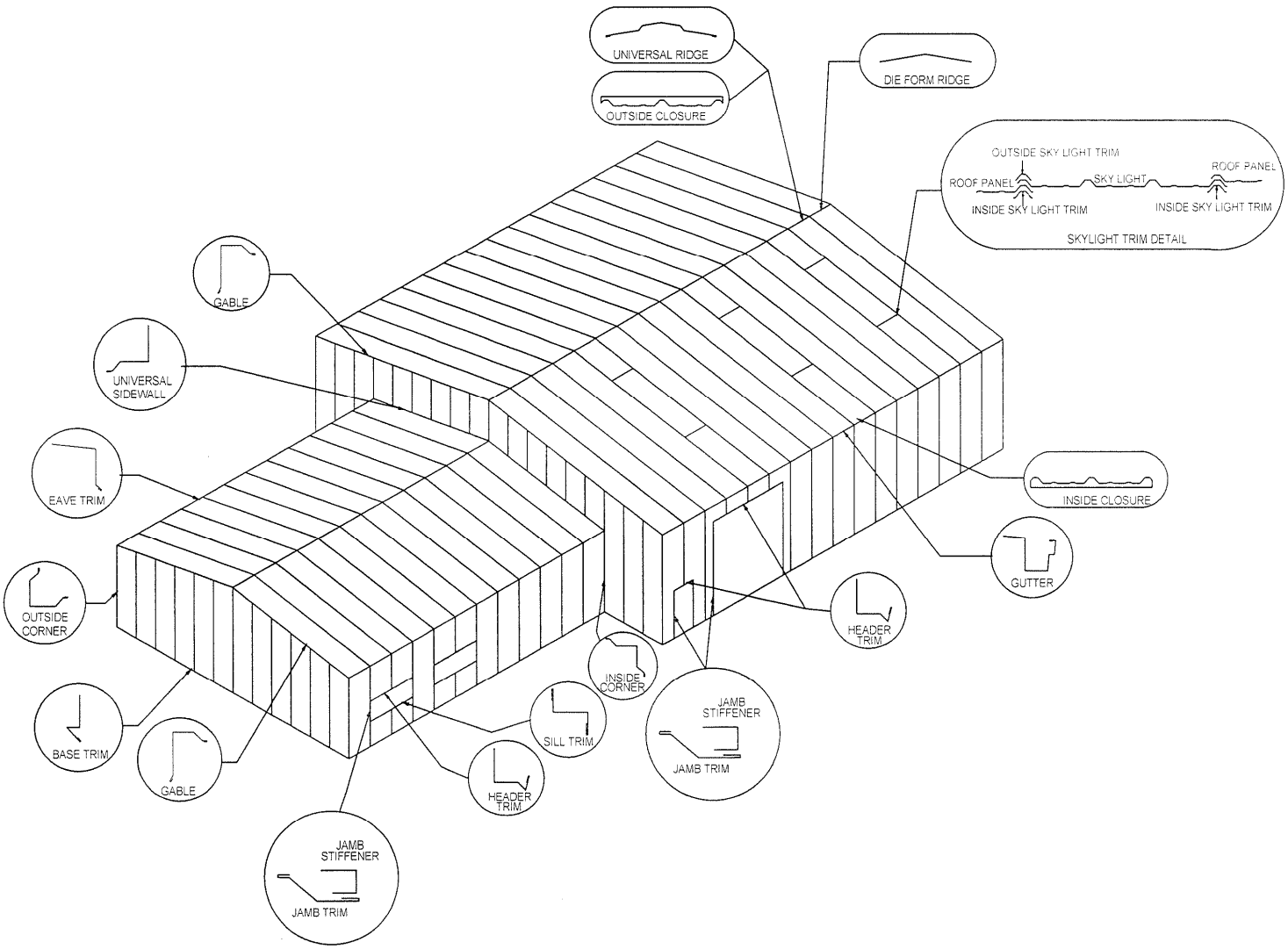
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# PBR-36

## 29-Gauge

## Trim and Accessories



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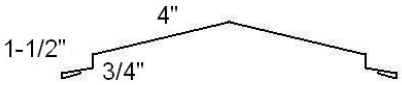
STEEL BUILDING COMPONENTS

# PBR-36 (29-GA) Standard Fasteners

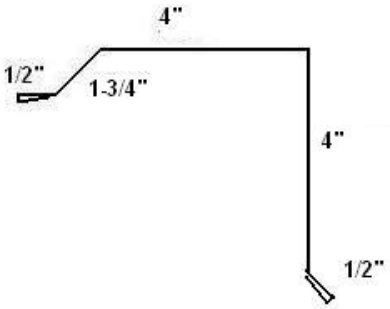
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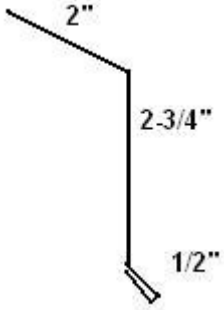
## Universal Ridge Cap



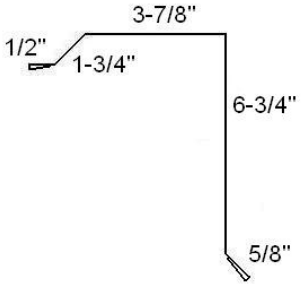

## Commercial Mini Gable



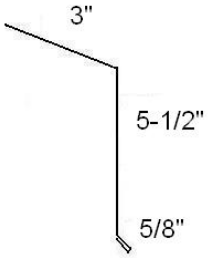

## Mini Eave



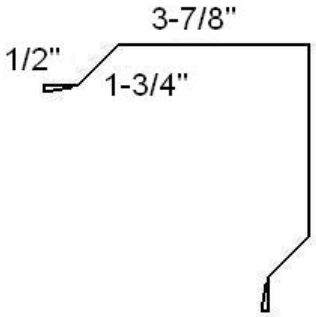

## Commercial Gable Trim (Non-Rollformed)



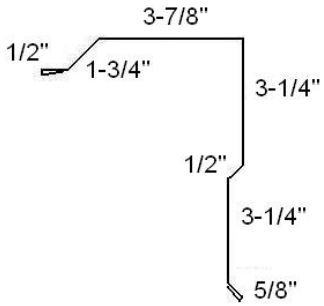

## Eave Trim (Non-Rollformed)



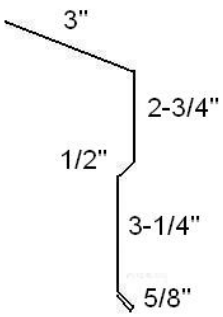

## S-11 Outside Corner



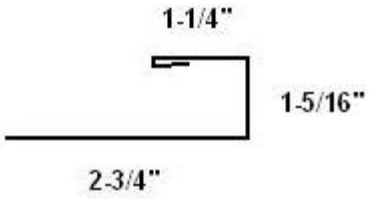

## Commercial Gable Trim (Rollformed)




## Commercial Eave Trim (Rollformed)




## Commercial Panel Cap



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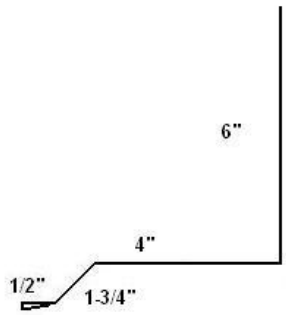
STEEL BUILDING COMPONENTS

# PBR-36 (29-GA) Standard Fasteners

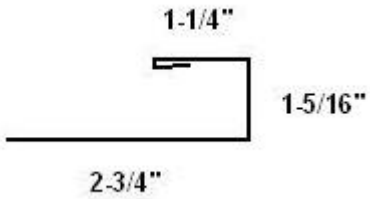
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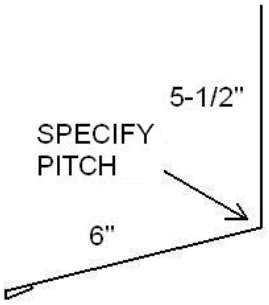
## Commercial Sidewall



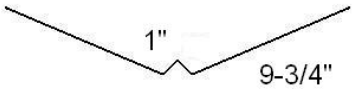

## S-58 Panel Cap



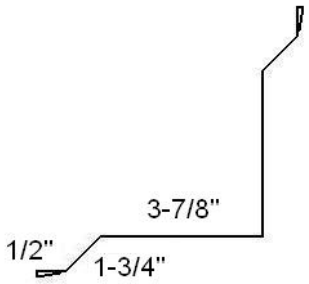

## Endwall



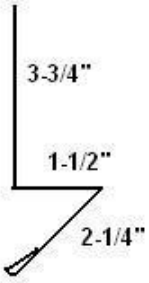

## "W" Valley



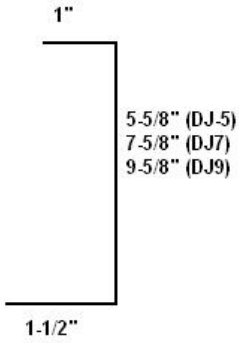

## S-13 Inside Corner



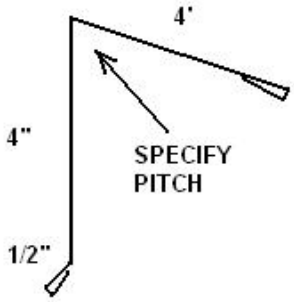

## Base Trim



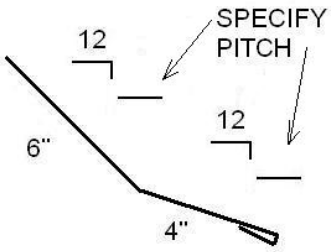

## Door Jamb Flashing




## Peak Cap




## Pitch Break



R & M STEEL CO

STEEL BUILDING COMPONENTS

# PBR-36 (29-GA) Standard Fasteners

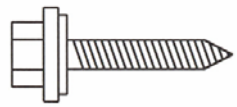
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**Sold in Bags of 250 Pieces**

## Metal-to-Wood

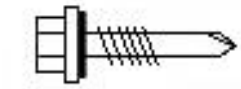
Wood Fast Self-Drilling
1/4" Head



| Galvanized or Painted | Carton Qty. |
|---|---|
| 12-14 x 3/4" Stitch | 4000 |
| 9 x 1 | 2500 |
| 9 x 1-1/2 | 2000 |
| 9 x 2 | 2000 |
| 9 x 2-1/2 | 1500 |
| 9 x 3 | 1000 |

## Metal-to-Metal TEKS®

Self-Drilling 5/16 Head



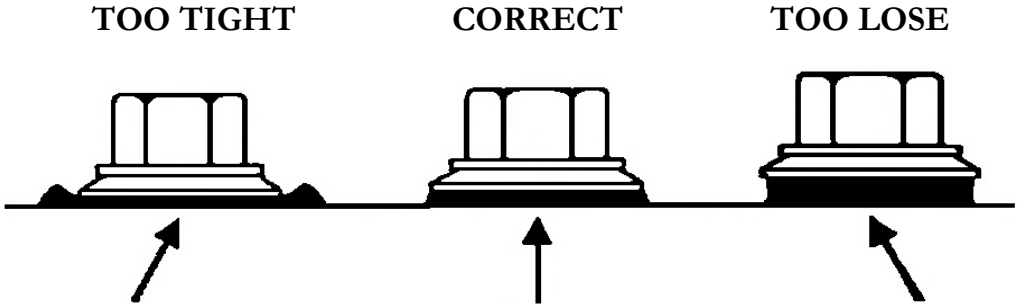
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|---|---|
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| 4 x 7/8 Lap TEK | 2500 |
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## Pop Rivets



| Painted | Carton Qty. |
|---|---|
| 1/8" Diameter x 1/8" Grip | 1000 |

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Sealing Material Not Visible – Not Enough Compression to Seal Properly

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R & M STEEL CO

STEEL BUILDING COMPONENTS

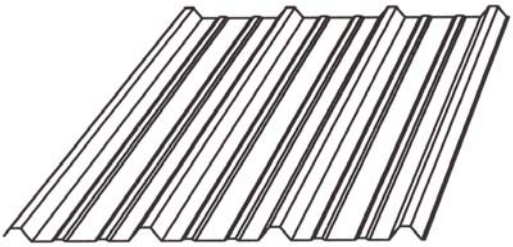
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## SUNSKY 12™

**Clear Polycarbonate Panels 11'**





**Vented Formed Closure**



**Outside Closure w/Adhesive**



**Inside Closure w/Adhesive**

## CLOSURES

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STEEL BUILDING COMPONENTS

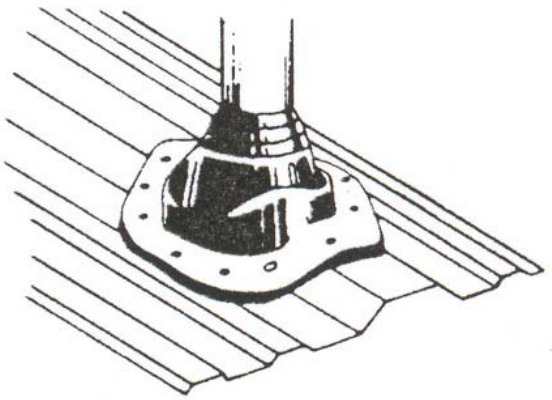
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| #2 | 6 ¾" | 1 ¾" - 3 ¼" |
| #3 | 7 ¾" | ¼" - 4" |
| #4 | 9 ¼" | 3" - 6" |
| #5 | 10 ¾" | 4 ¼" - 7 ½" |
| #6 | 12 ½" | 5" - 9" |
| #7 | 14 ½" | 6" - 11" |
| #8 | 16 ½" | 7" - 13" |

## DIRECTIONS

- Before cutting hole in sheet consider the best position to suit the size of flasher selected.
- Cut a neat hole with minimum clearance for pipe and install pipe.
- Rubber sleeve should be a watertight fit on pipe. If rubber has to be cut to suit pipe size, use a sharp pair of scissors and avoid nicks.
- Apply silicone sealant to underside of base and using water as a lubricant, slide flashing along pipe until it meets sheet.
- Press base into contours of sheet by hand.
- Drill two holes opposite each other and fasten. Progressively complete the fastening by pressing base firmly to sheet to avoid gaps. If there is a sharp corner in the valley, use a blunt tool to press the base into place.
- Dress excess silicone caulk around flasher base for attractive professional finished installation.

R & M STEEL CO
STEEL BUILDING COMPONENTS

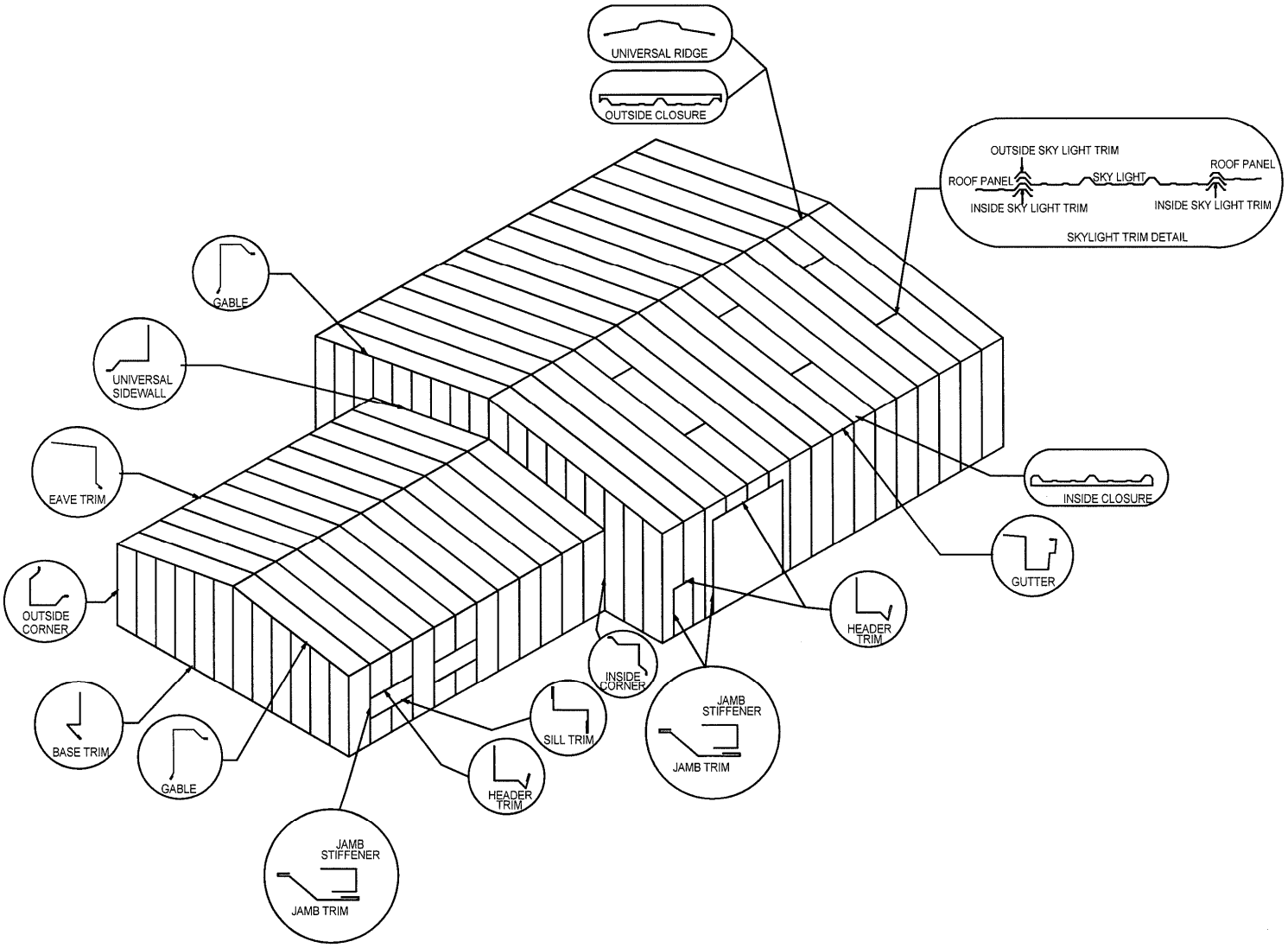
# PRIME RIB: Components & Applications

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# PRIME RIB

## 29-Gauge

## Trim and Accessories



R & M STEEL CO

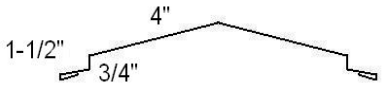
STEEL BUILDING COMPONENTS

# PRIME RIB Trim Selection

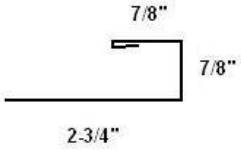
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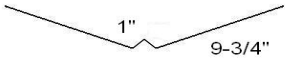
## Ridge Cap



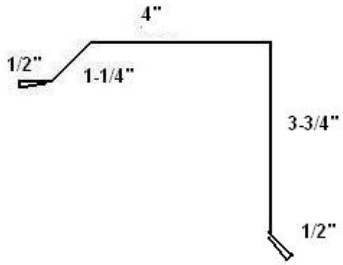

## Panel Cap



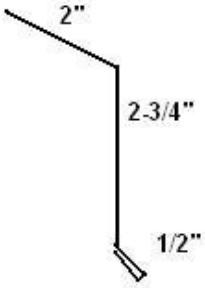

## "W" Valley



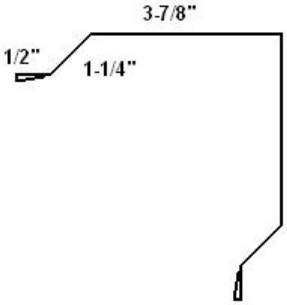

## Mini Gable



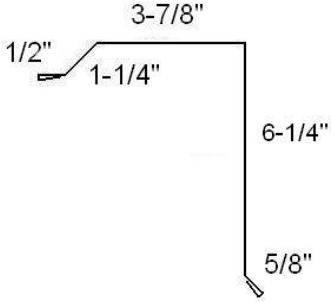

## Mini Eave



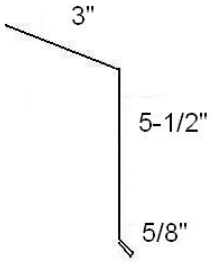

## Outside Corner



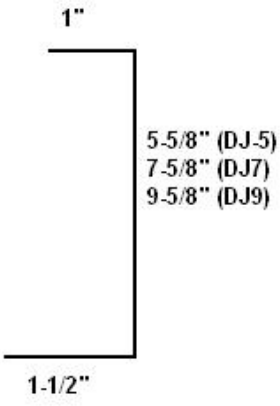

## Gable Trim
**(Non-Rollformed)**




## Eave Trim
**(Non-Rollformed)**




## Door Jamb Flashing



R & M STEEL CO

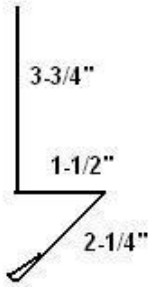
STEEL BUILDING COMPONENTS

# PRIME RIB Trim Selection

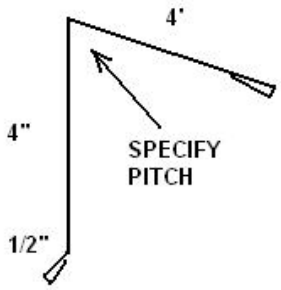
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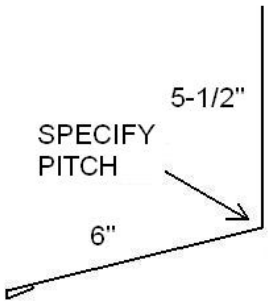
## Base Trim



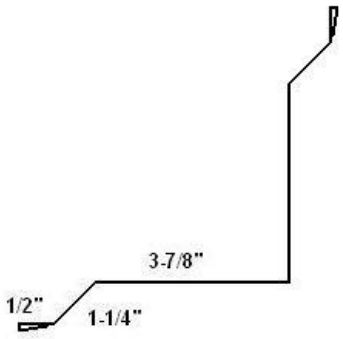

## Peak Cap



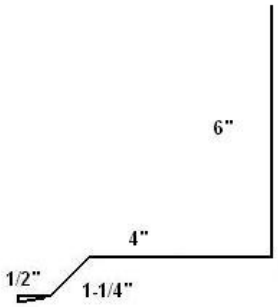

## Endwall



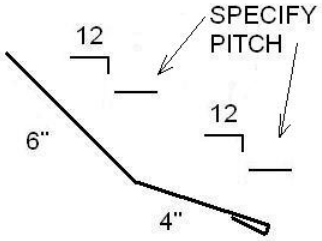

## Inside Corner




## Sidewall

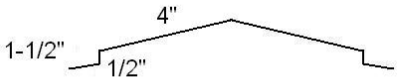



## Pitch Break



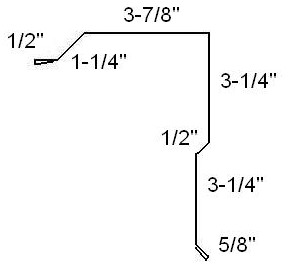

*Currently Not Available*

## Ridge Cap (Rollformed)



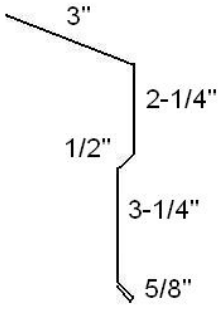

*Currently Not Available*

## Gable Trim (Rollformed)




*Currently Not Available*

## Eave Trim (Rollformed)



R & M STEEL CO

STEEL BUILDING COMPONENTS

# PRIME RIB Standard Fasteners

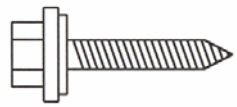
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**Sold in Bags of 250 Pieces**

## Metal-to-Wood

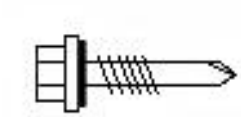
Wood Fast Self-Drilling
1/4" Head



| Galvanized or Painted | Carton Qty. |
|---|---|
| 12-14 x 1 ¼ | 2500 |
| 12-14 x 1 ½ | 2000 |
| 14 x 7/8 Lap Tek | 2500 |
| 12-24 x 1-1/2 TEK #5 | 2000 |

## Metal-to-Metal TEKS®

Self-Drilling 5/16 Head



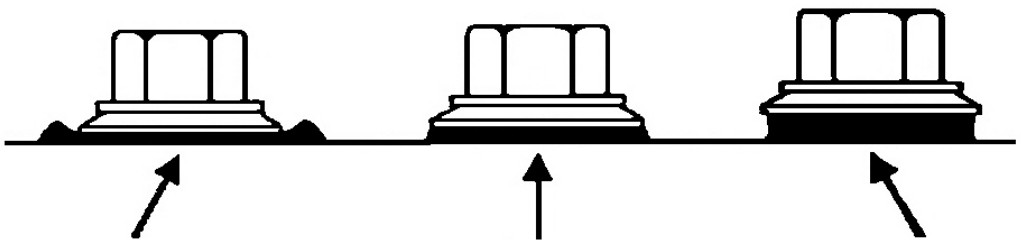
| Galvanized or Painted | Carton Qty. |
|---|---|
| 12-14 x 3/4" Stitch | 4000 |
| 9 x 1 | 2500 |
| 9 x 1-1/2 | 2000 |
| 9 x 2 | 2000 |
| 9 x 2-1/2 | 1500 |
| 9 x 3 | 1000 |

## Pop Rivets



| Painted | Carton Qty. |
|---|---|
| 1/8" Diameter x 1/8" Grip | 1000 |

## MAXI SEAL SCREW




Metal Washer Deformed – Sealing Material Extruded Beyond Edge of Washer

Sealing Material. Slightly Visible at Edge Of Metal Washer - Assembly is Weather Tight

Sealing Material Not Visible – Not Enough Compression to Seal Properly

**NOTE**: **Roof**: approx. **80** fasteners required per square
**Wall**: approx. **60** fasteners required per square

R & M STEEL CO

STEEL BUILDING COMPONENTS

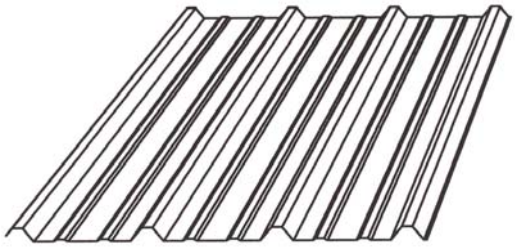
# PRIME RIB Accessories

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## SUNSKY 12™

**Clear Polycarbonate Panels 11'**





**Vented Formed Closure**



**Outside Closure w/Adhesive**



**Inside Closure w/Adhesive**

## CLOSURES

| | |
|---|---|
| Formed Closure (Inside or Outside) | 100 per Carton |
| Vented Formed Closure | 25 per Carton |
| Universal Closure 1-1/2" x 1-1/2" x 25' | 30 per Carton |
| Universal Closure 2" x 2" x 25' | 10 per Carton |

## BUTYL SEALANT

| | |
|---|---|
| 3/4 x 3/32 x 45' | 24 Rolls per Carton |
| 7/8 x 3/16 x 40' (TS-324) | 10 Rolls per Carton |
| 5/32 x 3/16 x 11/32 x 1-1/4 x 30' Triple Bead (TS-324) | 16 Rolls per Carton |

## WALK DOORS

**Universal Swing Insulated Door**
Frame kit consists of white 8-1/4" frame, hinges, lever-lock, weather strip, and threshold.

| Size | Options |
|---|---|
| 3070 | |
| 3070 | Mortise Lock Prep |
| 3070 with ½ glass | |
| 4070 | |
| 6070 | |

R & M STEEL CO

STEEL BUILDING COMPONENTS

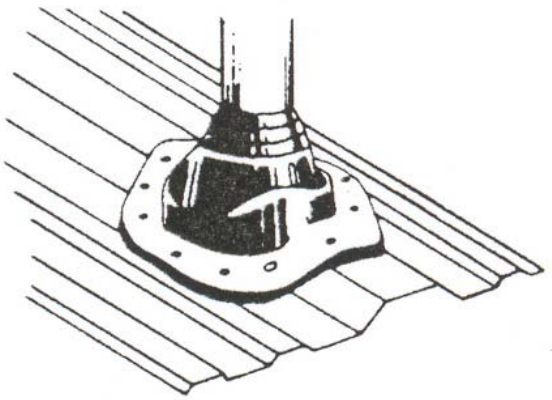
# PRIME RIB Standard Accessories

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## PIPE FLASHING

- Fits all sheet profiles
- Takes all types of pipe
- Waterproof and dustproof
- Easily attached to pipe
- Temperature range: -90ºF to 250º
- Available High-Temp up to 450º



| Size | Base Diameter | Pipe Size |
|---|---|---|
| #1 | 4 ¾" | ¾" - 2" |
| #2 | 6 ¾" | 1 ¾" - 3 ¼" |
| #3 | 7 ¾" | ¼" - 4" |
| #4 | 9 ¼" | 3" - 6" |
| #5 | 10 ¾" | 4 ¼" - 7 ½" |
| #6 | 12 ½" | 5" - 9" |
| #7 | 14 ½" | 6" - 11" |
| #8 | 16 ½" | 7" - 13" |

## DIRECTIONS

- Before cutting hole in sheet consider the best position to suit the size of flasher selected.
- Cut a neat hole with minimum clearance for pipe and install pipe.
- Rubber sleeve should be a watertight fit on pipe. If rubber has to be cut to suit pipe size, use a sharp pair of scissors and avoid nicks.
- Apply silicone sealant to underside of base and using water as a lubricant, slide flashing along pipe until it meets sheet.
- Press base into contours of sheet by hand.
- Drill two holes opposite each other and fasten. Progressively complete the fastening by pressing base firmly to sheet to avoid gaps. If there is a sharp corner in the valley, use a blunt tool to press the base into place.
- Dress excess silicone caulk around flasher base for attractive professional finished installation.

R & M STEEL CO
STEEL BUILDING COMPONENTS

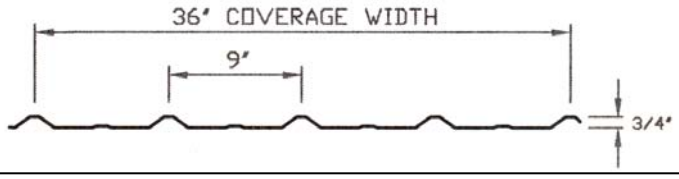
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# PRIME RIB






## Material Specifications

| | |
|---|---|
| Paint Finish: | CERAM-A-STAR™ 1050<br>40-year SMP Paint System |
| Yield Strength: | 80 KSI |
| Galvanized Steel: | 29-gauge |

## Description

Prime Rib is a 36" net coverage steel panel with ¾" high ribs at 9" on-center. This panel is designed for application on roof or wall sub-structural members typically at 2' to 4' on-center.

R & M STEEL CO

STEEL BUILDING COMPONENTS

# PANEL PROFILES

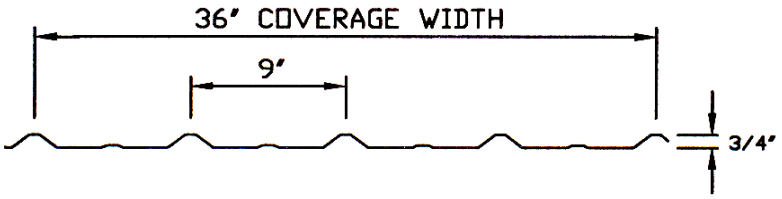
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## PRIME RIB

### Notes on Section Properties and Load Table

- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- ***I +/- is for deflection determination.***
- ***S +/- is for bending determination.***
- $M_a$ is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.
- WL is allowable wind load and has been increased by 33-1/3%.




| Section Properties 36" Wide, R & M STEEL CO PRIME RIB 36 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
| | | | | $I_{xx}$ | $S_{xx}$ | $M_a$ | $I_{xx}$ | $S_{xx}$ | $M_a$ |
| | | | | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. |
| 29 | .015 | .592 | 80 | 0.0060 | 0.0126 | 0.4530 | 0.0060 | 0.0133 | 0.4767 |

| Span (ft.) | Three or More Span Condition | | |
|---|---|---|---|
| | 29-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | OUTWARD (S) (psf) |
| 3 | 41.2 | 36.7 | 39.2 |
| 4 | 23.2 | 15.5 | 22.1 |
| 5 | 14.8 | 7.9 | 14.1 |

R & M STEEL CO

STEEL BUILDING COMPONENTS

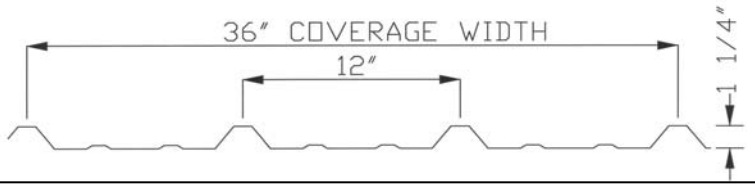
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# PBR-36






## Material Specifications

| | |
|---|---|
| Paint Finish: | CERAM-A-STAR™ 1050<br>40-year SMP Paint System |
| Yield Strength: | 80 KSI |
| Galvanized Steel: | 26-gauge |

## Description

PBR-36 is a 36" net coverage steel panel with 1-¼" high rib at 12" on-center. This panel is designed for application on roof or wall sub-structural members typically at 5' on-center.

R & M STEEL CO

STEEL BUILDING COMPONENTS

# PANEL PROFILES

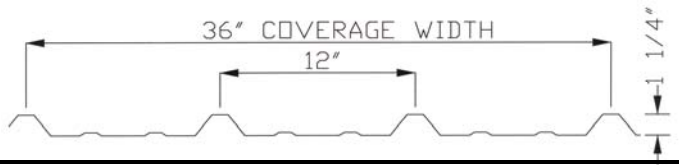
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## PBR-36

### Notes on Section Properties and Load Table

- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- $M_a$ is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.
- WL is allowable wind load and has been increased by 33-1/3%.




| Section Properties 36" Wide, R & M STEEL CO PBR-36 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
| | | | | $I_{xx}$ | $S_{xx}$ | $M_a$ | $I_{xx}$ | $S_{xx}$ | $M_a$ |
| | | | | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. |
| 29 | .015 | .736 | 80.0 | .030 | .030 | 1.065 | .035 | .042 | 1.496 |
| 26 | .019 | .932 | 80.0 | .044 | .044 | 1.589 | .046 | .054 | 1.925 |
| 24 | .024 | 1.176 | 80.0 | .063 | .065 | 1.941 | .063 | .069 | 2.070 |

| Span (ft.) | Single Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 79 | 79 | 147 | **118** | **118** | **190** | | | |
| 4 | 44 | 41 | 83 | 66 | 60 | 107 | | | |
| 5 | 28 | 21 | 53 | 42 | 31 | 68 | | | |
| 6 | 20 | 12 | 37 | 29 | 18 | 47 | | | |
| 7 | 14 | 8 | 27 | 22 | 11 | 35 | | | |
| 8 | 11 | 5 | 21 | 17 | 7 | 27 | | | |
| 9 | 9 | 4 | 16 | 13 | 5 | 21 | | | |
| 10 | 7 | 3 | 13 | 11 | 4 | 17 | | | |

| Span (ft.) | Two Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 111 | 111 | 105 | **143** | **143** | **157** | | | |
| 4 | 62 | 53 | 59 | 80 | 78 | 88 | | | |
| 5 | 40 | 27 | 38 | 51 | 40 | 56 | | | |
| 6 | 28 | 16 | 26 | 36 | 23 | 39 | | | |
| 7 | 20 | 10 | 19 | 26 | 14 | 29 | | | |
| 8 | 16 | 7 | 15 | 20 | 10 | 22 | | | |
| 9 | 12 | 5 | 12 | 16 | 7 | 17 | | | |
| 10 | 10 | 3 | 9 | 13 | 5 | 14 | | | |

| Span (ft.) | Three or More Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 126 | 126 | 123 | **167** | **167** | **183** | | | |
| 4 | 71 | 71 | 69 | 94 | 94 | 103 | | | |
| 5 | 46 | 40 | 44 | 60 | 58 | 66 | | | |
| 6 | 32 | 23 | 31 | 42 | 33 | 46 | | | |
| 7 | 23 | 14 | 23 | 31 | 21 | 34 | | | |
| 8 | 18 | 10 | 17 | 23 | 14 | 26 | | | |
| 9 | 14 | 7 | 14 | 19 | 10 | 20 | | | |
| 10 | 11 | 5 | 11 | 15 | 7 | 16 | | | |

# R & M STEEL CO

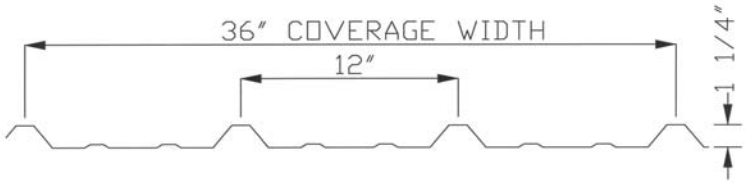
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# PBR-36






**PBR-36 is a 36" net coverage, thru-fastener panel.**





# R & M STEEL CO

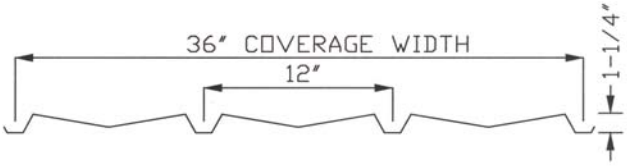
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# ARCHITECTURAL A-36






## Material Specifications

| | |
|---|---|
| Paint Finish: | CERAM-A-STAR™ 1050<br>40-year SMP Paint System |
| Yield Strength: | 80 KSI |
| Galvanized Steel: | 26-gauge |

## Description

Architectural A-36 is a 36" net coverage steel box rib panel with 1-¼" ribs at 12" on-center. This panel is designed for application on wall sub-structural members typically at 5' on-center.

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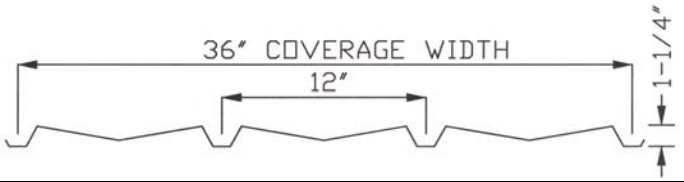
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## ARCHITECTURAL A-36




### Notes On Section Properties and Load Table

- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- $M_a$ is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.

| Section Properties 36" Wide, R & M STEEL CO ARCHITECTURAL A-36 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
| | | | | $I_{xx}$ | $S_{xx}$ | $M_a$ | $I_{xx}$ | $S_{xx}$ | $M_a$ |
| | | | | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. |
| 29 | .015 | .666 | 80 | .023 | .032 | 1.164 | .023 | .029 | 1.038 |
| 26 | .019 | .859 | 80 | .031 | .042 | 1.544 | .032 | .040 | 1.470 |
| 24 | .024 | 1.090 | 80 | .043 | .056 | 1.691 | .043 | .055 | 1.676 |

| Single Span Condition | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Span (ft.) | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 86 | 73 | | 114 | 100 | | | | |
| 4 | 48 | 31 | | 64 | 42 | | | | |
| 5 | 31 | 16 | | 41 | 22 | | | | |
| 6 | 22 | 9 | | 29 | 13 | | | | |
| 7 | 16 | 6 | | 21 | 8 | | | | |
| 8 | 12 | 4 | | 16 | 5 | | | | |

| Two Span Condition | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Span (ft.) | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 77 | 77 | | 109 | 109 | | | | |
| 4 | 43 | 43 | | 61 | 61 | | | | |
| 5 | 28 | 28 | | 39 | 39 | | | | |
| 6 | 19 | 19 | | 27 | 27 | | | | |
| 7 | 14 | 14 | | 20 | 20 | | | | |
| 8 | 11 | 9 | | 15 | 13 | | | | |

| Three or More Span Condition | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Span (ft.) | 29-Gauge & 80 ksi | | | 26 Gauge & 80 ksi | | | 24 Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 216 | 216 | | **306** | **306** | | | | |
| 4 | 138 | 138 | | 196 | 196 | | | | |
| 5 | 96 | 96 | | 136 | 136 | | | | |
| 6 | 54 | 58 | | 77 | 77 | | | | |
| 7 | 35 | 30 | | 49 | 41 | | | | |
| 8 | 24 | 17 | | 34 | 24 | | | | |
| 9 | 18 | 11 | | 25 | 15 | | | | |
| 10 | 14 | 7 | | 19 | 10 | | | | |

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STEEL BUILDING COMPONENTS

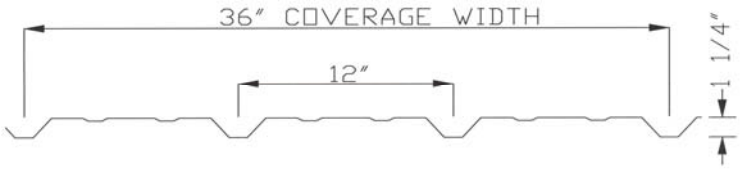
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# WESTERN WALL






## Material Specifications

| | |
|---|---|
| Paint Finish: | CERAM-A-STAR™ 1050<br>40-year SMP Paint System |
| Yield Strength: | 80 KSI |
| Galvanized Steel: | 26-gauge |

## Description

WESTERN WALL is a 36" net coverage steel box rib panel with 1-¼" ribs at 12" on-center. This panel is designed for application on wall sub-structural members typically at 5' on-center.

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STEEL BUILDING COMPONENTS

# PANEL PROFILES

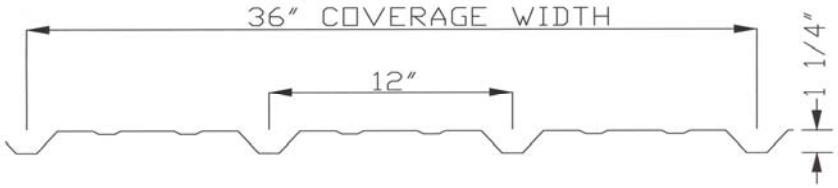
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## WESTERN WALL

### Notes On Section Properties and Load Table

- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- $M_a$ is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.
- WL is allowable wind load and has been increased by 33-1/3%.




| Section Properties 36" Wide, R & M STEEL CO WESTERN WALL | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
| | | | | $I_{xx}$ | $S_{xx}$ | $M_a$ | $I_{xx}$ | $S_{xx}$ | $M_a$ |
| | | | | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft. |
| 29 | .015 | .736 | 80.0 | .022 | .034 | 1.230 | .019 | .028 | 1.021 |
| 26 | .019 | .932 | 80.0 | .028 | .044 | 1.583 | .025 | .038 | 1.379 |
| 24 | .024 | 1.176 | 80.0 | .037 | .056 | 1.668 | .033 | .052 | 1.556 |

| Span (ft.) | Single Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 91 | 70 | 101 | 117 | 92 | 136 | 124 | 119 | 153 |
| 4 | 51 | 30 | 57 | 66 | 39 | 76 | 69 | 50 | 86 |
| 5 | 33 | 15 | 36 | 42 | 20 | 49 | 44 | 26 | 55 |
| 6 | 23 | 9 | 25 | 29 | 11 | 34 | 31 | 15 | 38 |
| 7 | 17 | 6 | 18 | 22 | 7 | 25 | 23 | 9 | 28 |
| 8 | 13 | 4 | 14 | 16 | 5 | 19 | 17 | 6 | 22 |

| Span (ft.) | Two Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 76 | 76 | 121 | **102** | **102** | **156** | **115** | **115** | **164** |
| 4 | 43 | 39 | 68 | 57 | 50 | 88 | 65 | 65 | 92 |
| 5 | 27 | 20 | 44 | 37 | 26 | 56 | 41 | 33 | 59 |
| 6 | 19 | 11 | 30 | 26 | 15 | 39 | 29 | 19 | 41 |
| 7 | 14 | 7 | 22 | 19 | 9 | 29 | 21 | 12 | 30 |
| 8 | 11 | 5 | 17 | 14 | 6 | 22 | 16 | 8 | 23 |

| Span (ft.) | Three or More Span Condition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 29-Gauge & 80 ksi | | | 26-Gauge & 80 ksi | | | 24-Gauge & 80 ksi | | |
| | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) | LL (S) (psf) | LL (D) (psf) | WL (psf) |
| 3 | 88 | 88 | 142 | **119** | **119** | **182** | **135** | **135** | **192** |
| 4 | 50 | 50 | 80 | 67 | 67 | 102 | 76 | 76 | 108 |
| 5 | 32 | 29 | 51 | 43 | 37 | 66 | 48 | 48 | 69 |
| 6 | 22 | 17 | 35 | 30 | 22 | 46 | 34 | 28 | 48 |
| 7 | 16 | 10 | 26 | 22 | 14 | 33 | 25 | 18 | 35 |
| 8 | 12 | 7 | 20 | 17 | 9 | 26 | 19 | 12 | 27 |

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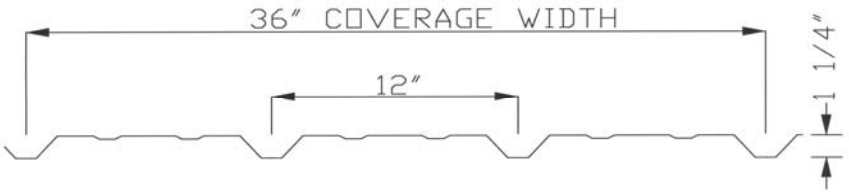
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# WESTERN WALL






**WESTERN WALL is a 36" net coverage, thru-fastener panel.**





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# ARCHITECTURAL 16






## Material Specifications

| | |
|---|---|
| Paint Finish: | CERAM-A-STAR™ 1050<br>40-year SMP Paint System |
| Yield Strength: | 50 KSI |
| Galvanized Steel: | 26-gauge |

## Description

Architectural 16 is a 16" wide net coverage, concealed fastener panel. This panel is designed for application over solid sheathing with a 30-lb felt paper underlayment. A flat-head fastener is applied at the side lap, at 18" on-center.

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## ARCHITECTURAL 16

### Notes On Section Properties and Load Table




- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- $M_a$ is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.
- WL is allowable wind load and has been increased by 33-1/3%.

| Section Properties 16" Wide, R & M STEEL CO ARCHITECTURAL 16 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
| | | | | $I_{xx}$ | $S_{xx}$ | $M_a$ | $I_{xx}$ | $S_{xx}$ | $M_a$ |
| | | | | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft | $In^4/ft.$ | $In^3/ft.$ | In.kips/ft |
| 26 | .019 | 1.0139 | 50 | .020 | .024 | .720 | .013 | .020 | .607 |

| Span (ft.) | Single Span Condition | |
|---|---|---|
| | 26-Gauge & 50 ksi | |
| | LL (S) (psf) | LL (D) (psf) |
| 3 | **53** | **53** |
| 4 | 30 | 28 |
| 5 | 19 | 14 |

| Span (ft.) | Two Span Condition | | |
|---|---|---|---|
| | 26-Gauge & 50 ksi | | |
| | LL (S) (psf) | LL (S) (psf) | LL (S) (psf) |
| 3 | **45** | **45** | **45** |
| 4 | 25 | 25 | 25 |
| 5 | 16 | 16 | 16 |

| Span (ft.) | Three or More Span Condition | | |
|---|---|---|---|
| | 26-Gauge & 50 ksi | | |
| | LL (S) (psf) | LL (S) (psf) | LL (S) (psf) |
| 3 | **56** | **56** | **56** |
| 4 | 32 | 32 | 32 |
| 5 | 20 | 20 | 20 |

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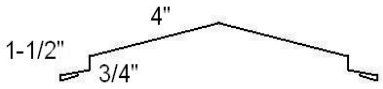
STEEL BUILDING COMPONENTS

# ARCHITECTURAL 16 TRIM SELECTION

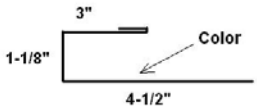
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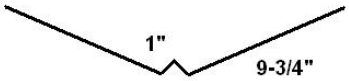
## Ridge Cap



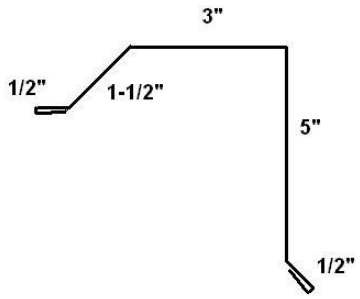

## A-16 Reverse Panel Cap



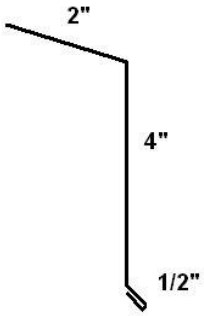

## "W" Valley



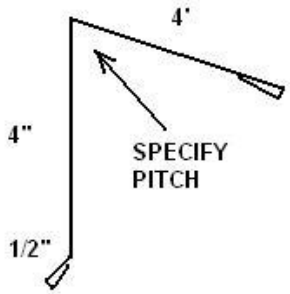

## A-16 Gable Trim



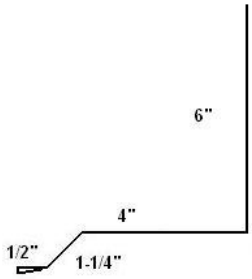

## A-16 Eave Trim



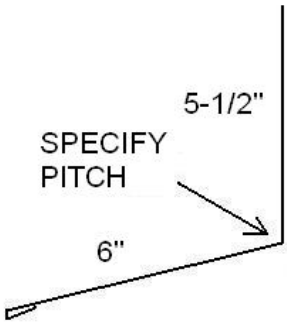

## Peak Cap



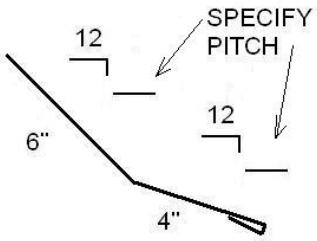

## Sidewall Trim




## Endwall Trim




## Pitch Break



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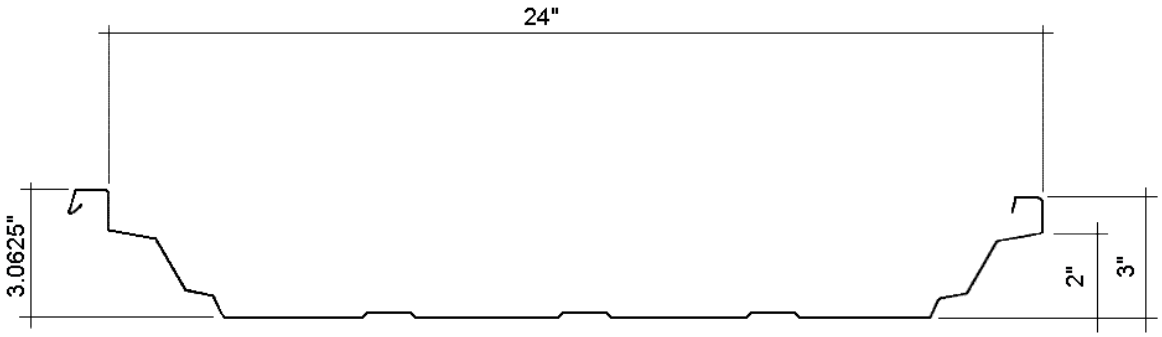
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# TS-324™

## STANDING SEAM ROOF SYSTEM




## ABOVE AND BEYOND THE REST
## NO OTHER ROOF COMPARES

AKZO NOBEL CERAM-A-STAR™ 1050 FINISH
40-YEAR PAINT WARRANTY UPON WRITTEN REQUEST

**Note: All orders rolled with 3 minor ribs unless otherwise specified.**

**TS-324™ is produced in 24-gauge Galvalume Plus and Painted.**

R&M Steel's TS-324™ Standing Seam Roof System has been extensively tested to ensure the highest level of ***weather tightness*** and structural integrity. The panels have been tested and approved by Factory Mutual™ and Underwriters Laboratories™ for wind uplift as well as hail and fire resistance.

R&M Steel's TS-324™ Standing Seam Roof System has three seam-type options.

- RollLok™
- TripleLok™
- QuadLok™

The project design and performance requirements govern which seam type is required. Different seam types may be required on specific areas of the roof. Refer to the Installation Drawings to determine the required seam type and locations.

TS-324™ is the only Standing Seam Roof panel on the market to provide higher wind uplift resistance using 24-gauge panels than other roof systems using 22-gauge panels.

R & M STEEL CO

STEEL BUILDING COMPONENTS

# PANEL PROFILES

Thank you for your business.
To place an order, you may:

**Phone: 1-208-454-1800 Toll Free: 1-866-454-1800**
**Fax: 1-208-454-1801 Toll Free: 1-866-454-1801**
**Email: sales.rmsteel@gmail.com**

# TS-324™
## STANDING SEAM ROOF SYSTEM

| | | | | Panel Top in Compression | | | Panel Bottom in Compression | | |
|---|---|---|---|---|---|---|---|---|---|
| **Gauge** | **$F_y$ (ksi)** | **Wt. (psf)** | **Thick. (inch)** | **$I_x$ ($in^4$)** | **$S_x$ ($in^3$)** | **$F_b$ (ksi)** | **$I_x$ ($in^4$ )** | **$S_x$ ($in^3$)** | **$F_b$ (ksi)** |
| **24** | 50 | 1.168 | 0.0228 | 0.3739 | 0.1567 | 30.0 | 0.1577 | 0.0965 | 30.00 |
| **22** | 50 | 1.441 | 0.0282 | 0.4587 | 0.1925 | 30.0 | 0.2025 | 0.1276 | 30.00 |

**NOTE**: Section properties are calculated in accordance with 1986 AISI Specifications. And are valid only for the section shown above. $S_x$ and $F_b$ are for stress determination; $I_x$ is for deflection determination.

24-gauge:
- Allowable intermediate bearing at 3" = 0.298 kips/ft
- Allowable end bearing at 2" = 0.117 kips/ft

22-gauge:
- Allowable intermediate bearing at 3" = 0.421 kips/ft
- Allowable end bearing at 2" = 0.185 kips/ft

**24-Gauge Material ($F_y$=50 ksi) Allowable Live Loads—<u>All Loads in Pounds per Square Foot</u>**

| Span Type | Load Type | Span (In feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | **3.0** | **4.0** | **5.0** | **6.0** | **7.0** | **8.0** | **9.0** | **10.0** |
| **Single Span** | **Stress** | 348.1 | 195.8 | 125.3 | 87.0 | 63.9 | 48.9 | 38.7 | 31.3 |
| | **Deflection** | 348.1 | 195.8 | 125.3 | 87.0 | 63.9 | 48.9 | 38.7 | 31.3 |
| **2 Spans** | **Stress** | 214.4 | 120.6 | 77.2 | 53.6 | 39.4 | 30.1 | 23.8 | 19.3 |
| | **Deflection** | 214.4 | 120.6 | 77.2 | 53.6 | 39.4 | 30.1 | 23.8 | 19.3 |
| **3 Spans or more** | **Stress** | 250.4 | 140.9 | 90.2 | 62.6 | 45.0 | 35.2 | 27.8 | 22.5 |
| | **Deflection** | 250.4 | 140.9 | 90.2 | 62.6 | 46.0 | 35.2 | 27.8 | 22.54 |

**22-Gauge Material ($F_y$=50 ksi) Allowable Live Loads—<u>All Loads in Pounds per Square Foot</u>**

| Span Type | Load Type | Span (In feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | **3.0** | **4.0** | **5.0** | **6.0** | **7.0** | **8.0** | **9.0** | **10.0** |
| **Single Span** | **Stress** | 427.8 | 240.6 | 154.0 | 107.0 | 78.6 | 60.2 | 47.5 | 38.5 |
| | **Deflection** | 427.8 | 240.6 | 154.0 | 107.0 | 78.6 | 60.2 | 47.5 | 38.5 |
| **2 Spans** | **Stress** | 283.4 | 159.4 | 102.0 | 70.9 | 52.7 | 39.9 | 31.5 | 25.5 |
| | **Deflection** | 283.4 | 159.4 | 102.0 | 70.9 | 52.1 | 39.9 | 31.5 | 25.5 |
| **3 Spans or more** | **Stress** | 331.1 | 186.2 | 119.2 | 82.8 | 60.8 | 46.6 | 36.8 | 29.8 |
| | **Deflection** | 331.1 | 186.2 | 119.2 | 82.8 | 60.8 | 46.6 | 36.8 | 29.8 |

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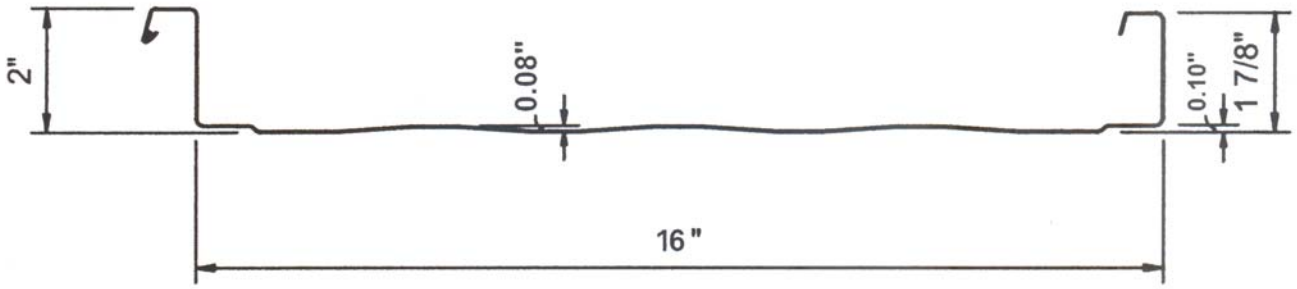
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# VS-216™

## Standing Seam Roof System




## ABOVE AND BEYOND THE REST
## NO OTHER ROOF COMPARES

AKZO NOBEL CERAM-A-STAR™ 1050 FINISH
40-YEAR PAINT WARRANTY UPON WRITTEN REQUEST

**Note: All orders rolled with striations.**

**VS-216™ is produced in 24-gauge Galvalume Plus and Painted**

R&M Steel's VS-216™ Standing Seam Roof System has been extensively tested to ensure the highest level of ***weather tightness*** and structural integrity. The panels have been tested and approved by Factory Mutual™ and Underwriters Laboratories™ for wind uplift as well as hail and fire resistance.

R&M Steel's VS-216™ Standing Seam Roof System has three seam-type options.

- RollLok™
- TripleLok™
- QuadLok™

The project design and performance requirements govern which seam type is required. Different seam types may be required on specific areas of the roof. Refer to the Installation Drawings to determine the required seam type and locations.

VS-216™ is the only Standing Seam Roof panel on the market to provide higher wind uplift resistance using 24-gauge panels than other roof systems using 22-gauge panels.

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STEEL BUILDING COMPONENTS

# PANEL PROFILES

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# VS-216™

## Roof System Product

| Section Properties: | | | | 16" wide, 50 ksi VS-216 Panel | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gauge | Thick. (inch) | Weight psf | Yield Stress ksi | Allowable Shear Kips/ft | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | | |
| | | | | | $I_{xx}$ in41ft | $S_{xx}$ in31ft | $M_a$ In.kips 1ft | $I_{xx}$ in4/ft | $S_{xx}$ in3/ft | $M_a$ In.kips 1ft | |
| **24** | 0.0221 | 1.254 | 50.0 | 0.79 | 0.1943 | 0.1113 | 3.333 | 0.0900 | 0.0762 | 2.282 | |
| **22** | 0.0275 | 1.555 | 50.0 | 1.22 | 0.2490 | 0.1448 | 4.337 | 0.1155 | 0.1 002 | 2.999 | |

**NOTE**: Section properties and allowables are calculated in accordance with North American Specifications for the Design of Cold-Formed Steel Structural members (2001 Edition & 2004 Supplement). $I_x$ is for deflection determination. $S_x$ is for bending determination. $M_a$ is allowable bending moment. $V_a$ is allowable shear. All values are for one foot of panel width. Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

24-gauge:
- Allowable intermediate bearing at 2.5" = 0.357 kips/ft
- Allowable end bearing at 2.5" = 0.126 kips/ft

22-gauge:
- Allowable intermediate bearing at 2.5" = 0.534 kips/ft
- Allowable end bearing at 2.5" = 0.189 kips/ft

**Allowable Live Loads—<u>All Loads in Pounds per Square Foot</u>**

| Gauge | Span Condition | | Span (ft) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 6 |
| 24 | SS | Stress | 555.5 | 355.5 | 246.9 | 181.4 | 138.9 | 109.7 | 88.9 | 61.7 |
| | | L/180 | 2122.4 | 1086.6 | 628.8 | 396.0 | 265.3 | 186.3 | 135.8 | 78.6 |
| | OS | Stress | 325.9 | 219.3 | 156.9 | 117.4 | 91.1 | 72.6 | 59.2 | 41.4 |
| | | L/180 | 5108.1 | 2615.4 | 1513.5 | 953.1 | 638.5 | 448.4 | 326.9 | 189.2 |
| | TS | Stress | 366.7 | 249.4 | 179.6 | 135.1 | 105.0 | 83.9 | 68.5 | 48.1 |
| | | L/180 | 4005.1 | 2050.6 | 1186.7 | 747.3 | 500.6 | 351.6 | 256.3 | 148.3 |
| 22 | SS | Stress | 722.8 | 462.6 | 321.2 | 236.0 | 180.7 | 142.8 | 115.6 | 80.3 |
| | | L/180 | 2720.6 | 1392.9 | 806.1 | 507.6 | 340.1 | 238.8 | 174.1 | 100.8 |
| | OS | Stress | 445.0 | 296.1 | 210.3 | 156.7 | 121.1 | 96.3 | 78.4 | 54.8 |
| | | L/180 | 6547.9 | 3352.5 | 1940.1 | 1221.8 | 818.5 | 574.8 | 419.1 | 242.5 |
| | TS | Stress | 504.7 | 338.7 | 241.8 | 180.8 | 140.1 | 111.6 | 90.9 | 63.6 |
| | | L/180 | 5133.9 | 2628.6 | 1521.2 | 957.9 | 641.7 | 450.7 | 328.6 | 190.1 |

**NOTE: Load Table:**

- Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
- Allowable load based on deflection limit cannot exceed allowable load based on stress.
- These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable uplift loads based on stress have not been increased by 33.33 % for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.
- SS = Simple Span, OS = Double Span and TS = Three or more spans