GOLDIN METALS, INC.

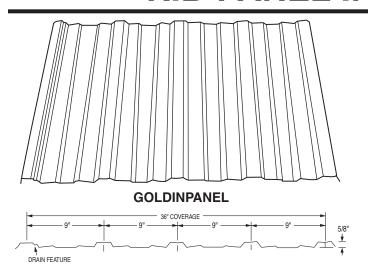
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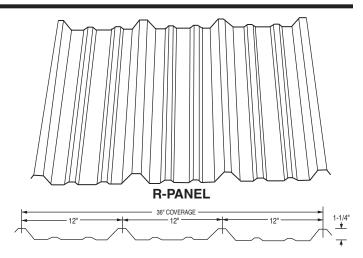
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Metal Building Component Manufacturer
Steel Service Center

RIB PANEL INSTALLATION





STORAGE AND HANDLING

Prior to installation, store painted, galvalume and galvanized Rib Panels only in a dry place. Do not store outdoors, nor in any indoor area subject to moisture. Stand panels on end and fanned out at the bottom to provide air circulation, or stack flat in piles on blocks or racks to protect bottom panels from ground moisture. In handling all Rib Panels, lift up and do not slide panels when unstacking or the finish coating may be damaged.

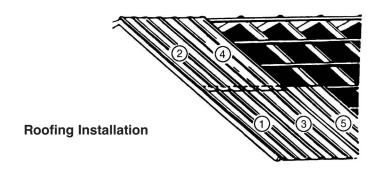
ROOFING INSTALLATION

Slope: Minimum roof slope for Rib Panel is 3 inches rise per foot. Apply sealant at side and end laps for less slope.

Start installing roofing vertically at edge away from prevailing wind. Rib Panel with side lap drain feature may be started from either right or left edge.

IMPORTANT: First roofing panel must be plumb to assure straight alignment of entire row of panels. Tip: stretch chalklines between nails driven into ridge and end of each rafter. These lines serve as guidelines to align panels. If roof requires more

than one horizontal row of panels, follow these procedures: Temporarily fasten (i.e., at two points — not at ends — along middle main ribs) panel No. 1 in lower corner. Install panel No. 2 above and endlapping over No. 1. Align both panels with chalkline. Install panel No. 3 next to No. 1, side-lapping over drain feature. Install panel No. 4 above No. 3, sidelapping over No. 2 and end-lapping over No. 3 (see illustration). Check alignment at ridge and eave again. Temporarily fasten all panels; permanently fasten when all panels are in line.



IMPORTANT: Do not temporarily or permanently fasten drain feature rib of any panel until it is sidelapped by adjacent panel.

Side Lap: 2 inches, with lapping rib completely over drain feature rib.

End Laps:	Under 4" rise per foot1	2"	lap
	4" rise per foot	8"	lap
	5" or more rise per foot	6"	lap

Eave: Allow 3 inches minimum overhang.

SIDING INSTALLATION

Start installing Rib Panel siding vertically at edge away from prevailing wind, starting from either right or left edge.

IMPORTANT: First siding panel must be plumb to assure straight alignment of entire row of panels.

Tip: Temporarily nail a 2 x 4 or double angle horizontally as a guideline about 3 inches below top of baseboard or foundation. Remove 2 x 4 after siding is permanently fastened.

Temporarily fasten first panel at starting edge. Install second panel next to the first, side-lapping over drain feature. Temporarily fasten all panels; permanently fasten when all panels are in line.

IMPORTANT: Do not temporarily or permanently fasten drain feature rib of any panel until it is sidelapped by adjacent panel. Prevent all panels from permanently contacting soil.

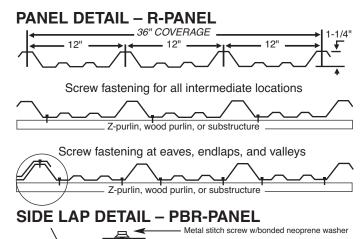
Side Lap: 2 inches, with lapping rib completely over drain feature rib.

End Lap: Lap 3 inches panel-over-panel and also over foundation or splashboard.

FASTENING DETAIL

Drill Screw Fastening: Rib Panel roofing and siding may be installed by use of painted/plated steel drill screws with sealing washers. Fasteners should have corrosion resistance at least equivalent to the expected life of the metallic substrate and the base metal. Selection of suitable long-lasting fasteners to be used rests solely with the buyer. For best results, fasten panels to purlins and girts at each side lap and in all flat areas between ribs. Minimum screw spacing may be at side laps and center flat area only, or a combination of both methods may be used by alternating them at every other purlin.

METAL FASTENERS				
Correct	Too Loose	Too Tight		
Sealing material slightly visible at washer. Assembly is weathertight.	Sealing material□ not visible.□ Not enough□ compression to□ seal properly.	Metal washer□ deformed. Sealing□ material extruded□ beyond edge□ of washer.		



* Consult Manufacturer for proper type of screw to be used with□ different types of substructures and panels.

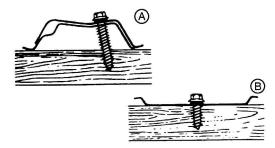
Sealant location-roof only

Screw fastener w/bondedD

PANEL DETAIL - GOLDINPANEL



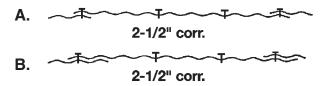
Use 1-1/2 inch long screws at side laps, along nailing strip farthest away from finishing edge of lapping rib (see Illustration A); use 1-1/2 inch or 1 inch long screws at flat areas (see Illustration B).



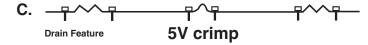
NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

CORRUGATED / 5V CRIMP INSTALLATION

Lapping: Side lap 2-1/2" corrugated roofing; two corrugations and siding; one corrugation. Side lap 5V crimp by placing the two crimps of the second sheet directly over the two crimps of the first sheet containing the drain feature. End lap roofing 12" when rise per foot is 3"; 8" when rise is 4"; 6" when rise is 5" or more.



- At the side lap, the screw is positioned vertically on the crest of the corrugation. All in field of sheet locations are positioned vertically in the valley of every third corrugation. (**Diagrams A & B**)
- 5V crimp roofing and siding —screw in the flat next to the rib, starting at the side lap. (**Diagram C**)



Drain feature should always be on the underside of the lap.

INSULATION

Insulation material – either board, roll, or loose filler type (spray-on type is **NOT** recommended) – should be used with a vapor barrier to reduce condensation on the inside of the Rib Panel roofing and siding in cold weather. Obtain specific recommendations from a qualified engineer.

FILLER/SEALER STRIPS AND SEALANTS

For best results in making a building weathertight, use formed filler/sealer strips (closures) at roof ridge and eaves. Strips with Rib Panel pattern are available. Butyl rubber sealants are excellent for side-lap sealing.

VENTILATION

Adequate air ventilation should be provided by means of ridge or rotary ventilators, power operated fans, profile vent gaskets, or other openings to minimize condensation. Obtain specific recommendations from a qualified engineer.

TRANSLUCENT FIBERGLASS PANELS

Translucent fiberglass panels with the Rib Panel patterns are available for use as skylights and/or windows.

CUTTING AND SHEARING

Rib Panel is easier to cut from its interior (bottom) side because of its flatter surface. Rib Panel may be cut with a nibbler, snips, or profile shear.

IMPORTANT: When using a power drill to make screw holes, protect the exterior (top) surface from the hot metal filings, which may become imbedded into the paint surface and eventually rust. Carefully wipe all filings from both surfaces before installation. If these cutting precautions are not taken, permanent rust spots will develop; naval jelly or auto cleaner/wax may be used to clean them, but they cannot be completely removed.

NOTICE:

Waviness in metal panels, commonly referred to as "oil canning", is an inherent characteristic with metal panels. Rib Panel patterns may mitigate this condition, while in flat pan profiles it could be more pronounced. The surface of bare Galvalume and Galvanized will vary in shade and spangle pattern, and such appearances may not be uniform. Under any circumstance, these conditions will not be considered reasons for rejection or claim.

SAFETY PRECAUTIONS

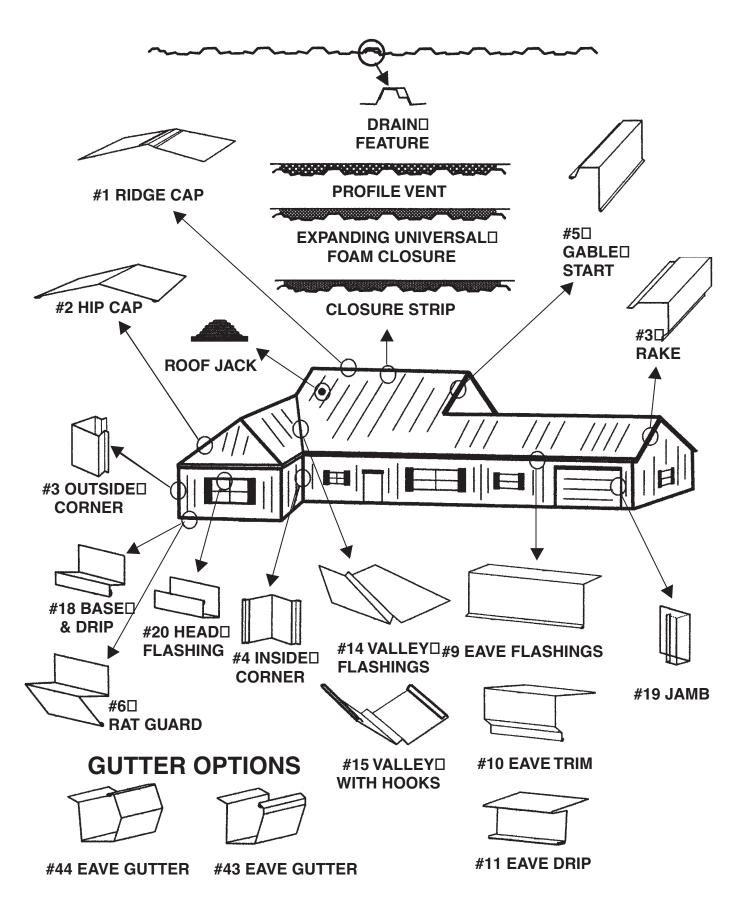
Gloves should be worn to prevent injury while handling steel panels. Safety glasses should be worn to prevent eye injury when cutting or drilling steel panels with power tools.

Use care when walking, sitting, or kneeling on a steel roof to avoid a fall. Steel panels may become slippery when wet. Do not work on steel panels when wet or when climactic conditions are not suitable for safe installation.

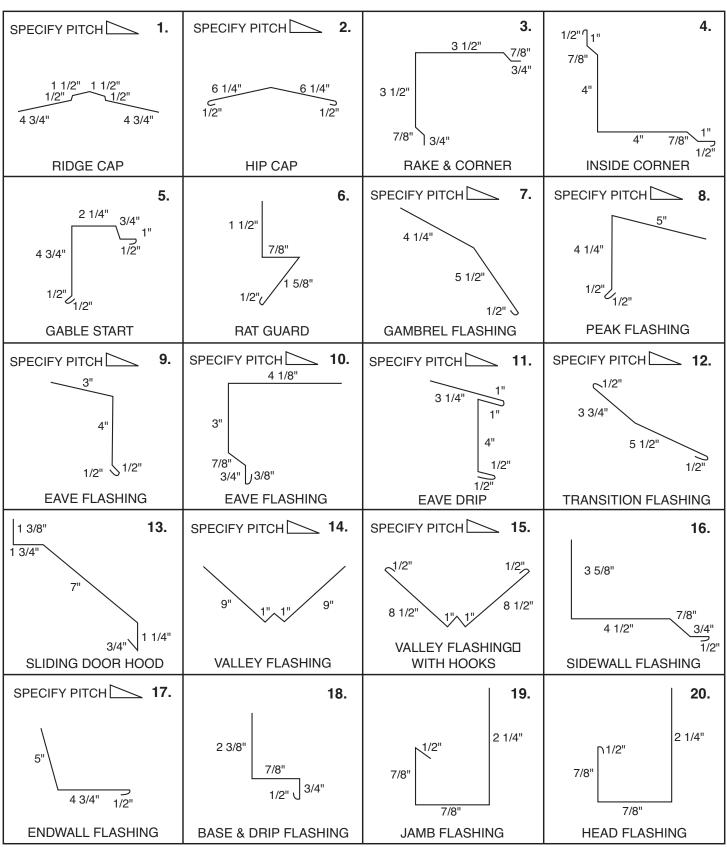
Do not walk on steel panels that contain oil.

Do not walk on skylights.

GOLDINPANEL RESIDENTIAL ROOF & WALL

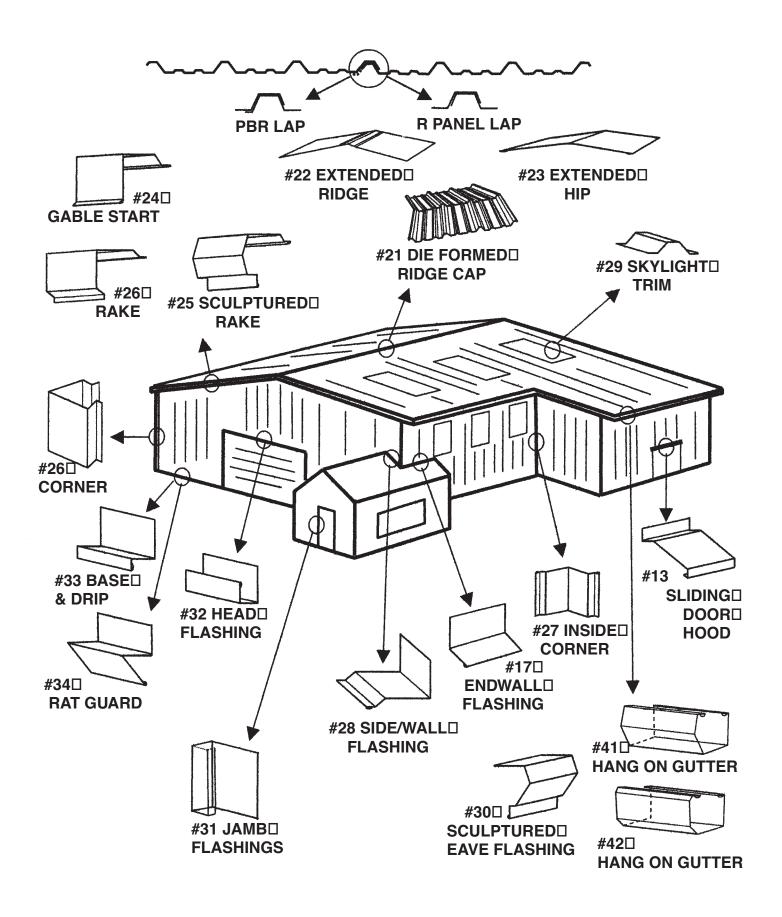


RESIDENTIAL

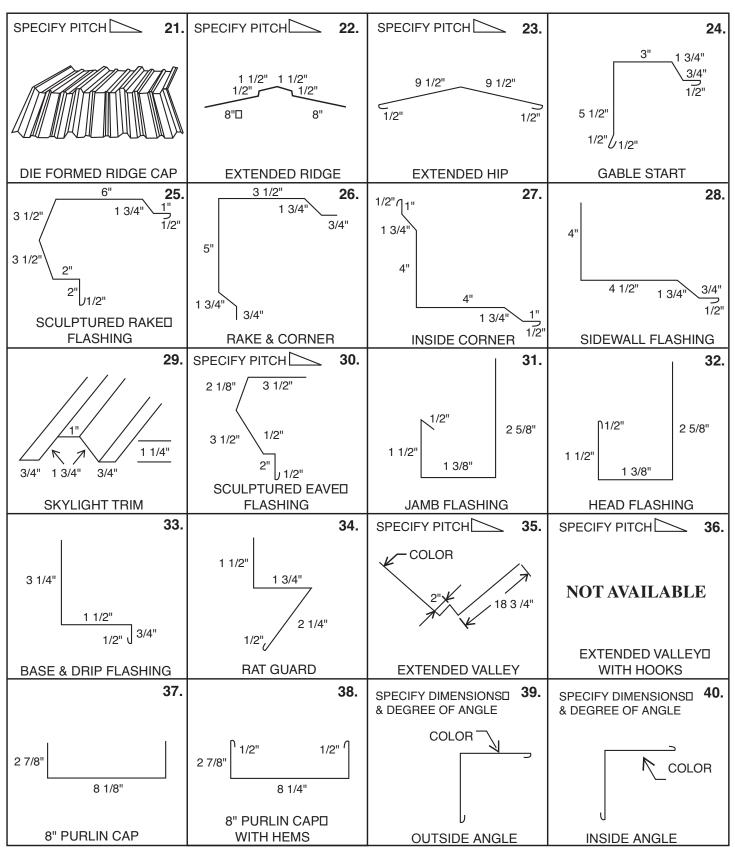


ACTUAL DIMENSIONS MAY VARY CERTAIN RESTRICTIONS APPLY

R-PANEL COMMERCIAL ROOF & WALL

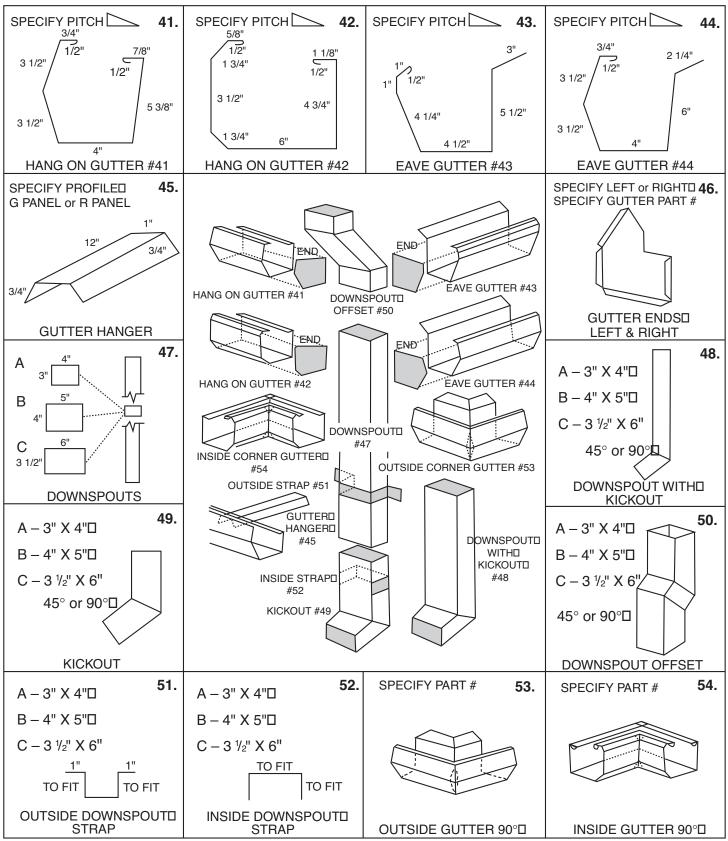


COMMERCIAL



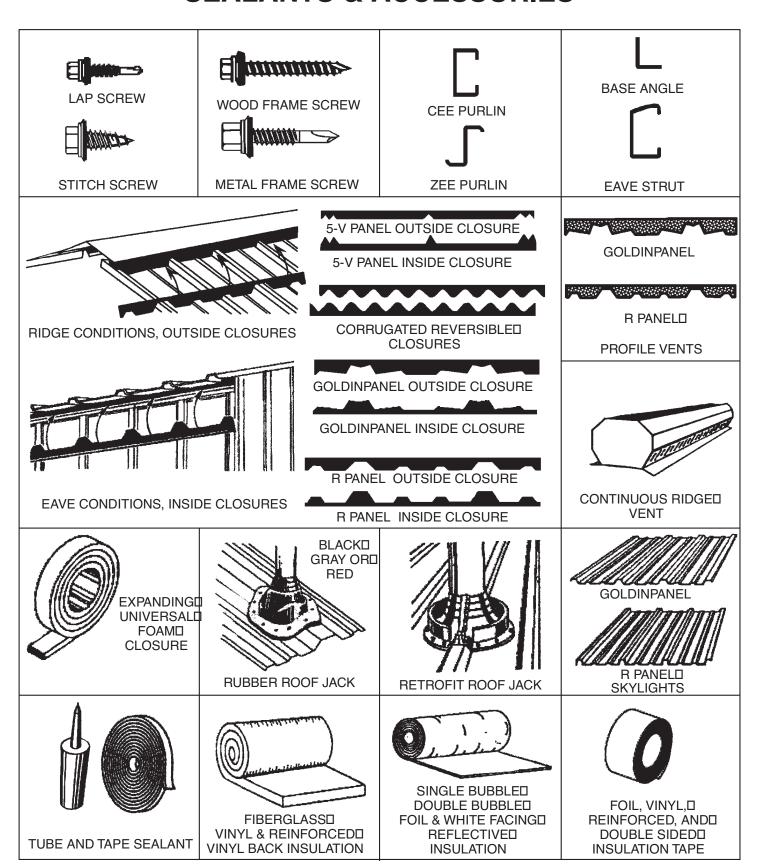
ACTUAL DIMENSIONS MAY VARY CERTAIN RESTRICTIONS APPLY

GUTTERS & DOWNSPOUTS



ACTUAL DIMENSIONS MAY VARY CERTAIN RESTRICTIONS APPLY

FASTENERS, CLOSURES, SEALANTS & ACCESSORIES

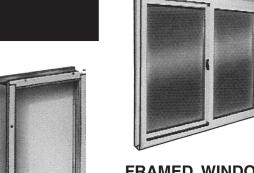


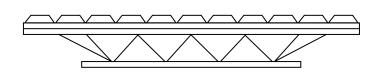
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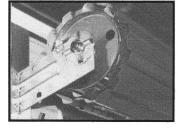
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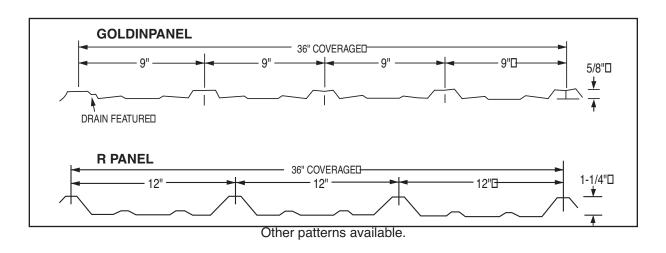
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WALK DOOR • ROLL-UP DOOR • SLIDING DOOR/TRACKS/TROLLEY
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TERMS AND CONDITIONS OF SALE

Goldin makes no warranty, express or implied, as to the merchantability or fitness for any ordinary or particular purpose of any goods sold. Goldin will not be liable to Buyer for any actual, special, direct, indirect, incidental, or consequential damages including loss of use which Buyer may suffer.

The customer is responsible for filing freight claims for shortages and damage in transit, whether visible or concealed. Goldin's responsibility ceases when the carrier signs for the shipment in good order. Failure to indicate shortages or damages on the signed Bill of Lading shall immediately waive any claim of shortage or damage. It is Buyer's responsibility to retain the Bill of Lading. Loss of the Bill of Lading shall also waive any claim of shortage or damage to goods.

Goldin is not responsible for bodily injuries or material damage due to improper handling during unloading, storage, or job-site placement.

Goldin shall not be liable to Buyer for any direct or consequential damages, including loss of use to Buyer, arising out of any delays due to transportation difficulties, priorities of any kind, failure of equipment, accidents, weather, fire, strikes, act of God, war, insurrection, mob action, act of government, loss, damage or delay of material, floods, storms, inability to obtain materials, or other acts or circumstances, and no penalties or liquidated damages are provided for herein.

Full payment of the C.O.D. invoice amount, including taxes and freight charges if any, must be made to the truck driver before any goods can be unloaded.

Buyers are responsible for sending suitable vehicles, capable of hauling the size and weight of the Buyer's order. Since Goldin loads with overhead cranes and forklifts, a flatbed trailer without side boards is most suitable. Goldin cannot load open end, closed trailers, such as horse trailers. Goldin shall not be responsible for any damages to a vehicle or goods as a result of the type of vehicle used. Buyer shall be responsible for providing a method for securing the goods to the vehicle and for securing the goods. Goldin shall not be responsible for any damage or loss of goods, or damage to vehicles or persons caused from unsecured or improperly secured goods shifting or falling from Buyer's vehicle during transport, or caused from Buyer rearranging or loading goods. Buyer shall indemnify and hold Goldin harmless, including costs and attorney's fees, from any and all claims made against Goldin relating thereto. Loading or rearranging of goods by Buyer shall not be allowed on Goldin's premises.

Any order which has not been shipped or picked up within 15 days of completion risks damage from prolonged storage and excessive handing within the loading area. Goldin shall not be responsible for any damage to, or loss of, any part of such an order. Buyer will reimburse Goldin for the cost of handling and storing materials if shipment is delayed by Buyer.

The type, size, length and/or gage of materials required is always the Buyer's responsibility and it is Buyer's responsibility to confirm that the product meets their specifications, including but not limited to type, size, length and/or gage of materials. Salespeople will offer information on its products which Buyer needs to compose the list, but under no circumstances will Goldin be responsible for a goods take-off. Goldin does not offer or provide engineering or design advice or expertise. Goldin shall not be responsible for any damage or injury resulting from design problems of any kind.

Goldin's goods should be installed by qualified professionals. If Buyer is not a qualified professional himself, Buyer should hire an erector who is trained and experienced with installing and erecting steel building materials. Goldin shall not be responsible for damages to property or injuries to persons due to negligent or improper installation by any person.