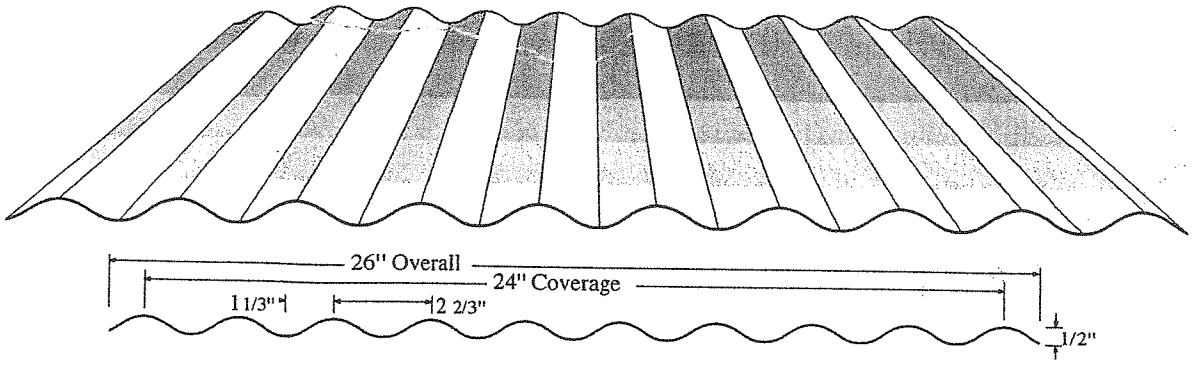
FABRAL

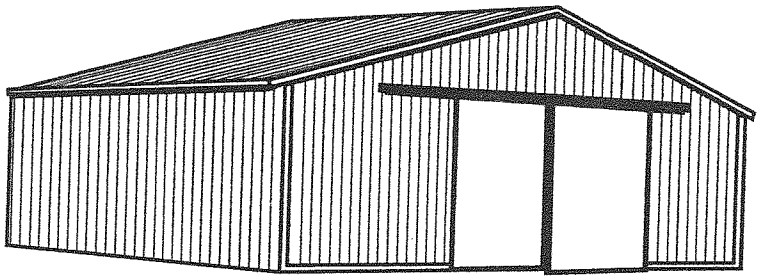
Installation Instructions
Steel Roofing & Siding

2-1/2" Corrugated



Dimensions:

- Overall width 26"
- 24" coverage
- Major rib Height ½"
- Major Rib Spacing 2-2/3" Center to Center



SLOPE OR PITCH

New structures should be designed to allow for a minimum slope of four inches to the foot, and sheet end laps, when necessary, should be at least nine inches. End laps should occur over purlins.

BENDING AND CUTTING

Where a metal roofing sheet must be bent to conform to a curved roof, roofing nails or screws should be driven at every overlapping rib at the sheet ends to resist the natural tendency of the metal to flex straight. Standard fastening spacing is recommended over the rest of the sheet. When installing steel agricultural roofing and siding over a curved arch, the minimum radius of the arch should be no less than 24 feet for steel profiles.

A portable shear is especially recommended for across-the profile cutting of galvanized steel. Whether the steel is to be cut with the corrugation or across it, use of a steel-cutting blade or an abrasive self-consuming blade in an electric saw is almost imperative. When cutting painted products the sheet should be turned reverse side up in order that the metal particles and filings do not become embedded and cause rust marks on the face of the panel. Metal snips are sometimes used, but uniformity is difficult.

METHOD OF FASTENING AND NAILING

For best results in fastening 2-1/2" Corrugated, use galvanized screws or ring shank nails with flat neoprene washers. Use 1-3/4 inch long nails or 1 inch screws for both roofing and siding.

Nails should be driven snugly against the rib with neoprene washer slightly bulged, forming compressed contact between washer and roofing to prevent any leakage. When nailing through more than two sheets, holes should be predrilled to maintain rib shape. Screw fasteners should be driven straight into valleys and purlin or girt for proper washer seal.

Important: Select nail or screw lengths for roofing and siding that do not go completely through purlins or girts. **Do Not** overdrive nails, as this tends to damage washers and over compresses steel. If a nail or screw misses a support, remove and fill hole with a galvanized sheet metal screw or sealant.

Caution: Storage Information

Sheets should be used as soon as possible after delivery. All metal roofing and siding sheets ***should be stored in a clean, dry, well-ventilated area.*** Staining may be caused by water from rain, snow, or condensation trapped between sheets. To avoid staining, store unbanded sheets off the ground, cover with canvas or waterproof paper, and stack in an inclined or vertical position.

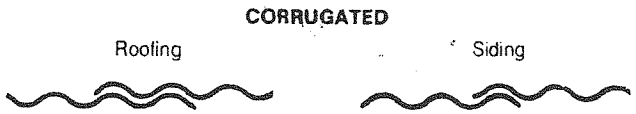
ROOFING INSTALLATION

Roofing sheets should be attached to roof with ribs perpendicular to the eaves and ridge. Sheets should span three or more purlins and end laps should be a minimum of 9 inches and caulked in areas of strong winds, driven rain and snow. Fasten each sheet completely except for top row of fasteners and complete each vertical course before lapping side sheets. Fasten all laps through top sheet. Roofing overhang should be 3 inches at eaves and at gable roofing should extend flush with gable flashing over trim board. Be sure sheets are aligned properly and square with eaves and ridge and parallel at each lap before permanently fastening. A chalk line can help. Fasten sheets at laps first before finishing each course.

NOTE: Always begin roofing at end away from prevailing winds. Be sure to use closure strips at eaves and ridge for maximum protection.

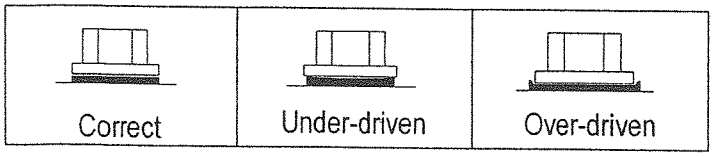
SIDING INSTALLATION

FABRAL Steel siding may be installed with the ribs running in either vertical or horizontal direction. Begin siding installation at the corner sill away from prevailing winds. All laps should be a minimum of 4 inches in either vertical or horizontal application, and all laps should occur directly over supports. Fasten each lap completely before fastening the rest of sheet. For vertical application apply sheets in vertical courses before side lapping next course: for horizontal application complete full length of wall before applying next higher course. Careful alignment before permanently fastening is a must. A chalk line can help.

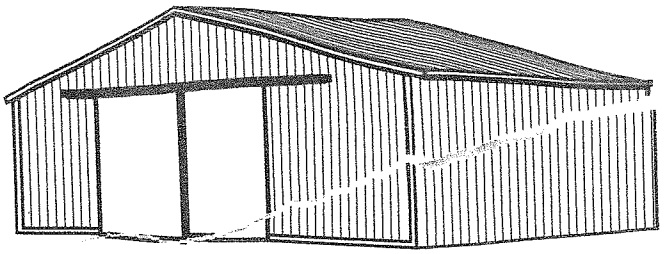


Detail A — 2½" Corrugated

When 2-1/2" Corrugated is used for **roofing, *lap 2 corrugations.*** When used for siding, lap only one corrugation.



Note: When estimating quantities required rule of thumb intermediate supports is **2 nails** or **2 screw** fasteners per running foot of pane.



MAXIMUM WEATHER SECURITY

FABRAL roofing and siding has been designed to withstand severe weather conditions. With ordinary care in construction and secure fastening, adequate protection should result. For extra protection, however, all laps should be sealed with caulking and wherever possible full length roofing sheets should be used to avoid end laps completely. Closure strips should be placed beneath final course of fastenings at eaves and under ridge cap.

THINGS TO AVOID

Avoid running steel siding closer than 18 inches from the ground and avoid contact with wet litter, animal excretion, animal bedding, wet grain, caustics or chemical fertilizers. Avoid contact with any fibrous materials that might retain moisture. When the metal is installed over green or damp lumber, insert a positive vapor barrier of plastic film, builder's felt or bituminous paint between the wood and the metal. Porous insulation board may also absorb and retain moisture. Use a vapor barrier over it, too.

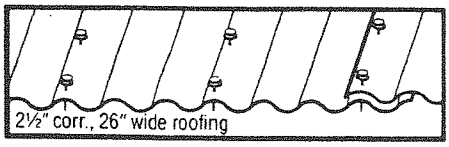
Use only steel accessories, fittings and fastenings. Contact your FABRAL representative for trim and accessories available.

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 the steel panels when wet or when climatic conditions are not suitable for safe installation.

Nails- Every third Corrugation Peak



Screws – Every third Corrugation Valley