Other Quality Features

**Star**

Star stocks 13 different type fasteners, each designed for particular uses. All are furnished with stainless steel caps or long-life coatings, then color coated to match the panel. Fasteners have special drill points.

Star roof and wall accessories are designed to be self-framing and self-flashing and work with Star panels. Doors have high quality hardware. Windows have thermal glass. Light transmitting panels match panel corrugations. Framed openings are available with galvanized finish. Accessory colors match trim colors.

Star has a product testing lab and research engineers to pre-test products to meet stringent specifications. As in Pacifying Mutual, U.S. Army Corp of Engineers, ASC, AISI, ASCE, and ASTM requirements.

Star Building Systems are designed for thermal efficiency. Our standing seam roof has a one inch stand off feature, and our sidewall and endwall columns are recessed one inch for improved thermal efficiency when using fiber glass insulation.

Star Building Systems offer 8½" and 10" widths and five thicknesses of purlins and girts. This flexibility allows long bays in higher live load and wind load areas.

**Other Manufacturers**

Many other manufacturers provide the cheapest fasteners on the market that rust or fail before the panel itself fails. Some provide poor quality fasteners with inferior drilling points or plastic heads that discolor and rust.

Some manufacturers buy standard commercial accessories which require field adaptation with flashing. Some provide low quality at lower prices.

Some manufacturers have in-house testing and research facilities. Most don’t.

Some manufacturers consider thermal efficiency in their design. Most don’t.

Most manufacturers have only one width.

Star Building Systems are erected by independent building contractors. All claims as to the ultimate performance of the product are contingent upon proper erection techniques as employed by the erecting contractors. These techniques must be in accordance with Star Building Systems’ suggested erection procedures. Star Building Systems is not liable for damages incurred through improper erection procedures. Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. Star reserves the right to discontinue products at any time or change specifications and/or designs without notice and without incurring obligation.

Not all metal buildings are equal. As in every product line, some choose to sell only low price... Star Building Systems has always chosen quality over price. This brochure illustrates the quality features of Star Product. These important features cost only a little more. The benefits far exceed the cost.

Star Building Systems
8660 S. Interstate 35
P.O. Box 94910
Oklahoma City, OK 73143
(800) 654-3921
FAX (405) 636-2037

www.starbig.com
E-mail: chambers@okc.mbg.com

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# Star Quality Trim

One of the most common ways of reducing the quality of a building is reducing the quality of the trim, or omitting it completely. Star Building Systems' trim is considered the best in the industry. Star uses metal wherever possible.

### Gutter

- **Star**
  - Star gutter is roll-formed in 26 gauge StarGuard 10 or Ultra Premium-20 finished steel. A stripable film is then applied for protection in shipment. Lengths of up to 20 are available. The size of the gutter is larger to allow proper drainage of wide buildings. One end is swaged for ease of erection. Corners are mitered.

- **Other Manufacturers**
  - Some manufacturers use retail lumber-yard type smaller gutters. Some are press brake with sharp breaks and short lengths. Some are made of soft aluminum.

- **Downspout**
  - Star gutter is roll-formed in the same profile as the eave gutter. It has stripable film applied for protection and comes with swaged ends. Lengths of up to 20 are available. Different gutter trim is used with various roof panels. Corners are mitered. Star's gutter trim has a specially designed drip edge to prevent streaking of the wall panels.

- **Gable Trim**
  - Star uses various metal rib fillers to fill the gaps in panel corrugations. Both inside and outside rib fillers are furnished with gable trim, facades, and accessories.

- **Rib Fillers**
  - The mitered eave panel is a Star exclusive for Dura-Rib and StarMark wall panels. This trim mitered the wall panel corrugations into the roof corrugations. Gun type caulking is used to seal the joint.

- **Mitered Eave Panel**
  - Star furnishes base trim with all wall panels. Optional trim is available for use with masonry or any other place wall panels touches other materials.

- **Base Trim**
  - The Dura-Rib roof is capped with a die-formed ridge cap shaped to conform to the roof panel corrugations. Special reduced yield steel is used for the ridge cap panel to prevent cracking.

- **Ridge Cap**
  - Some manufacturers use small press broke downspouts that are unattractive and incapable of effectively handling water run off.

### Quality Features of Star Panels

**Dura-Rib® Roof and Wall**

- Return leg on leading edge for better sideline integrity and better erection safety.
- 80,000 PSI yield steel roof panels for better walkability.
- Attractive vertical shadow lines for improved appearance.
- Capillary groove.
- UL 90 approved.

**StarMark® Wall**

- Inexpensive optional shadow wall panel.
- Semi-concealed fasteners.
- Popular on facades.

**Star CFW II Wall**

- Concealed Fastener wall panel.
- Architectural recognized and accepted.
- 24 gauge embossed finish.
- Several interior conditions are possible.
- Over 20 colors available.
- More useable building square footage.

### Roof Coatings of Aluminum-Zinc Alloy

Offer economical resistance to weathering and corrosion. Panels are warranted for up to 20 years against rupture, structural failure and penetration. StarGuard-10 Siliconized Polyester paint finish over G-90 galvanized steel substrate offers a 10 year, optional 20 year, warranty against chalk and fade. Ceramic color pigments are naturally stable. StarGuard-10 is a long-life finish at an economical price for both roof and wall. Ultra Premium-20 Kynar® 500 polychloroethylene fluoride resin finish over G-90 galvanized steel substrate is a 20 year, long-life, premium finish with superior resistance to chalk and fade. It has superior resistance to sand abrasion, chemical and corrosive environments. It has outstanding color retention and can be used for both roof and walls.

### Design Integrity

### Quality Features

- Star Building Systems has been designing and manufacturing steel buildings since 1927. Star has an ongoing quality control program to insure consistent, quality fabrication.
- Each Star building is designed by a professional engineer. Each design is sealed by an engineer registered in the state the building is to be located.
- Star Buildings are products approved by national and international code bodies such as ICBO (UBC), SRC, and BOCA. Star design and fabrication is certified by AISC-MB. Star regularly designs for special codes such as Wisconsin, North Carolina, California, Indiana, Massachusetts, Los Angeles city, Germany and Canada.
- Star Building Systems has been a member of the Metal Building Manufacturers Association (MBMA) since 1964.

### Owner Benefit

- Stability in design and vast experience assures high quality and knowledgeable designs that will withstand the tests of time.
- Local design conditions of snow, wind and earthquake require special knowledge. Proper designs of shadow loads at valleys and steps prevent excessive deflections and failures.
- Local code bodies easily accept Star designs and approve them quickly. In recent years, Star designs have withstood major winter storms, hurricanes, and west coast earthquakes much better than our competitors, which speak well for Star's high quality frame designs.
- Conforming to industry design practices assures building owners of quality designs.