

TECHNICAL BULLETIN

Galvalume® Information

What is Galvalume® and Galvalume Plus®?

Galvalume® is the name of the coating applied to bare sheet steel products that acts as a two-punch barrier to the elements. It is comprised of 55% aluminum, 1.6% silicon and 43.4% zinc. The coating is applied to the base metal in a continuous hot dip method. The product is described in ASTM-792, coating classes of AZ 50, AZ 55 and AZ 60. These classes equate to an average minimum coating thickness of .50, .55 and .60 ounces per square foot.

Why is Galvalume® better than galvanized coated steel sheets?

After 23 years of continuous exposure to the real world of: severe marine, agricultural, industrial and rural environments Galvalume® proved more durable than comparably coated G-90 galvanized steel products. (G-90 = .9 oz. coating per sq. ft. of zinc) It actually out performed G-90 galvanized products in the same environments by two to four times. In other words, they resisted corrosion that much better. (Refer to Bethlehem brochure #7495 b.)

Would a Galvalume® panel feel lighter than a G-90 galvanized panel?

Remember that the Galvalume® coating is comprised of 55% aluminum which is half the weight of steel by volume. So, two ten foot sheets of identical panels; one coated with Galvalume® and one coated with G-90 galvanized, the galvanized panel would weigh approximately six tenths of an ounce (.6 oz) more. The galvanized coating being heavier in weight only.

Are Galvalume® coated panels as strong as G-90 galvanized coated sheets?

Whether the coating is G-90 or Galvalume® has nothing to do with the strength of the panel. Gauge, rib height, rib spacing and the tensile strength of the steel are basically what determine a panel's strength. ABC's roof and wall panels are 29 gauge, full hard 80,000 to 120,000 yield steel and can match strength with any comparable panel configuration. Load charts are provided for each of our panels in the ABC catalog or at your point of purchase.

Is Galvalume® the best choice for all applications?

Galvalume® sheets are your product of choice for most agricultural, commercial, industrial and rural applications. (Refer to Bethlehem Tech Bulletin TYB-208 - Also refer to ABC's published Galvalume 25 year limited warranty.) However, bare or painted Galvalume® sheets are not recommended for use in hog or cattle confinement buildings. These structures are subject to extremely corrosive environments due to the presence of animal waste and their decomposition by-products. Many coated sheet materials, including galvanized, exhibit higher than normal rates of corrosion in these environments. While no one warrants steel coated products for these applications, G-90 or higher coated steel panels are used extensively in the confinement industry, as is .019 or thicker aluminum panels.

Does Galvalume® have a 25 year warranty?

YES. Bare Galvalume® or Galvalume Plus® sheet steel with AZ 5 coating is warranted under exposure to normal

atmospheric conditions for a period of twenty five years against rupture, perforation or structural failure due to corrosion. (Refer to ABC's published 25 year limited Galvalume® warranty.)

With ABC's color coated steel Galvalume panels you get today's STATE OF THE ART Millennium® 3000 paint system, formulated especially for ABC.

ABC's 30 year limited paint warranty provides protection from chalk and fade throughout the term of the warranty. Check out our published warranty for the specific details. Copies are available at your point of purchase or call or write for a copy at the nearest ABC facility.

We make getting your metal Panels, Trim, and Accessories easy.

TECHNICAL BULLETIN

Impact Resistance For Metal Roof Panels

American Building Components is proud to announce that each and every one of its metal roof panels have qualified for the Class 4 rating under Underwriters Laboratories UL 2218 test standard for "Impact Resistance of Roofing Materials". The class 4 rating is the highest rating for which a roofing material can be considered. This means that when you specify or use ABC, you can be assured you are getting the most impact resistant roof available.

The UL 2218 test standard was mandated by insurance companies due to the large losses they have absorbed in recent years from hail damaged roofs. In order to provide the insurance companies with a way to predict possible hail damage without severely limiting the consumer's choices, a rating system was developed. Roof coverings that pass this UL test standard are classified as either Class 1, 2, 3 or 4; with Class 4 being the most impact resistant. In certain areas of the country, roofs with UL rated materials can qualify for an insurance premium discount.

Frequently Asked Questions

Why do I need an impact resistant roof?

Some hail storms have been so severe that they have perforated the roof deck, causing major water damage to the interior of the home. Also, for those that live in Texas, you may be able to qualify for a discount on your homeowner's insurance of up to 35%.

How do I find out if I can get a discount on my insurance and if so, how much?

Call your insurance company to find out if they give discounts for "Impact Resistant" roofs. If you live in Texas, to check discounts by counties you may call the Texas Board of Insurance by phone at 800-252-3439 or check their website at www.tdi.state.tx.us. For specific website information: commish/nr04018.html

Are all metal roofs impact resistant?

No. Only those that are listed by Underwriters Laboratories as having passed the UL 2218 test standard.

How do I know for sure if a roof covering has passed the UL 2218 test?

UL publishes a "Roofing Materials and Systems Directory" on a yearly basis which includes information on wind uplift, fire ratings and impact resistance of various roofing materials.

How do I prove to my insurance company that my roof is indeed "Impact Resistant"?

The roofing material manufacturer should provide a certificate, such as the one shown on the opposite page, to the roofing contractor to furnish to the homeowner to present to their insurance company.


Does an "Impact Resistant" roof cost more?

No. At ABC, we do not charge any more money for the "Impact Resistance" rating on our panels.

Do I have to request the "Impact Resistance Certificate" from ABC when the material is ordered?

No. You may request the "Impact Resistance Certificate" at any time after the roof has been installed.

I had a metal roof from ABC installed on my house several years ago.

 U.L. CLASS 4 IMPACT RESISTANCE RATED ROOF SYSTEM	
THIS CERTIFIES that the roof deck panels manufactured by American Building Components on the building indicated below, carry a Class 4 impact resistant rating as classified by Underwriters Laboratories in accordance with UL 2218, "Impact Resistance of Prepared Roof Covering Materials." Only those products bearing the appropriate Listing Mark or Classification Marking and the company's name, tradename, trademark or other authorized identification should be considered as covered by UL's Listing or Classification Service and Follow-up Service. The UL Listing Mark or Classification Marking provides evidence of listing or labeling which may be required by installation codes or standards.	
_____ <i>Building Street Address</i>	
_____ <i>Building City, State, Zip</i>	
_____ <i>ABC Representative</i>	_____ <i>Date</i>
<small>14051 West Hardy • Houston, Texas 77060 • P.O. Box 58217 Houston, Texas 77258 • Telephone 281/443-8333</small>	