



AST Hi-Acrylic Metal Roof & Building Sealants

PRODUCT DATA

Product Description

AST is a self-adhering tape seal made from resilient, open-cell polyurethane foam impregnated with a water-based acrylic-modified asphalt emulsion and then compressed to a sealing density level appropriate to the application. Typically, higher compression levels are required for watertightness in water run-off applications; lower compression can be used, for example, for snow seals at roof ridges.

AST replaces and outperforms liquid and butyl-tape sealants as well as closed-cell and unimpregnated open-cell foam closures.

Product Uses

AST sealant tape is used to seal out dust, air, wind-driven snow, and moisture through joint details in metal buildings and roofs. AST is ideal as a filler in expansion/compression joints subject to movement from thermal expansion and contraction, and as a gasket in mechanically fastened, non-moving applications such as lap seams. AST is suitable for use against metal, plastic, wood, concrete, and other materials common in metal building structures.



Levels of Sealing

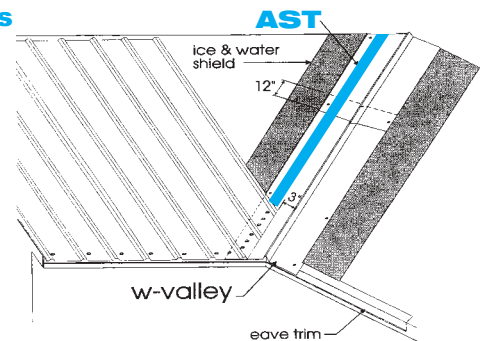
1-No Seal (material needs some compression to stay in joint)	Zero Compression (fully expanded)	
2-Heat & Cold, Dust, Acoustic	*18%	82%
3-Heat & Cold, Dust, Acoustic, Air	*66% compression	33%
4-Heat & Cold, Dust, Acoustic, Air, Vapor	*75% compression	25%
5-Heat & Cold, Dust, Acoustic, Air, Vapor, Water	*80% compression	20%

*compression from fully expanded size

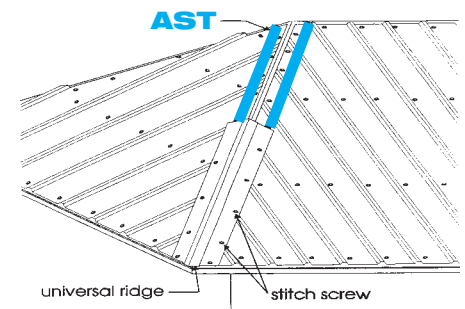
Product Features

- Will not dry out and become hard or brittle
- UV-stable
- Highly resistant to bugs and vermin
- Will not extrude from between joints like caulk or butyl tapes
- Conforms to contours and fills gaps
- Maintains a seal during thermal expansion and contraction of building panels
- Excellent compressibility and recovery (minimal compression set)
- Good thermal and sound insulator
- No shrinkage or blow-out due to closed-cell breakage
- Supplied with self-adhesive on one side. After removal of packaging, material begins gradual expansion - more slowly in cold weather than in hot.

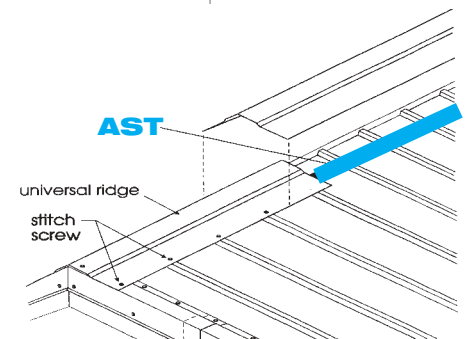
Valleys



Hips



Ridges



Filling Voids and Panel Contours

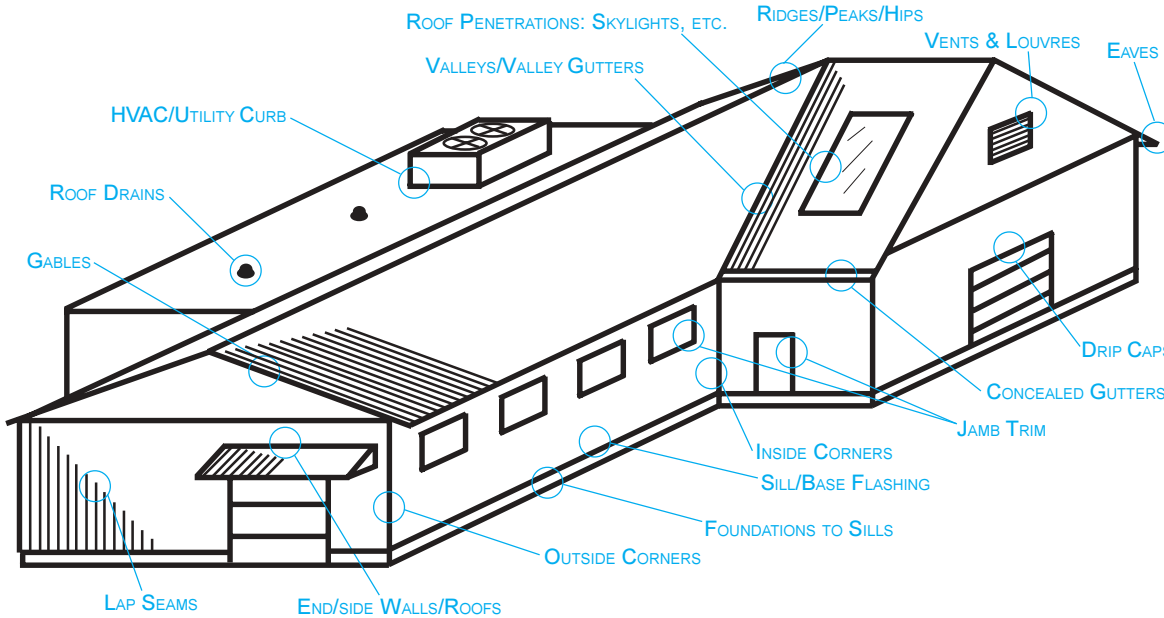
Use **AST Hi-Acrylic** in all applications where the material will be allowed to expand to fill voids or follow panel contours.

- Ridges, Peaks, Hips
- Valleys, Valley Gutters
- Gables
- Inside/Outside Corners
- Window/Door Jambs
- Eaves

Gasketing Applications

Use **AST Hi-Acrylic** in flat-on-flat "gasket" applications where the material will be held at a high degree of compression by fasteners such as clips, screws, etc.

- Lap Seams
- Roof Penetrations, Skylights
- Vents and Louvers
- Base Angles
- HVAC/Utility Curbs



STANDARD & CUSTOM SIZES AVAILABLE

The following are the most popular sizes for void-filling applications.

Supplied Size	Expanded Size	Box Quantity	Rolls Per Box	Roll Length	Product Code
1/4" x 3/4" (6 x 20mm)	1" x 3/4" (25 x 20mm)	629.76 LF (192 m)	32	19.68' (6 m)	ASH-25-20-06
1/4" x 1" (6 x 25mm)	1" x 1" (25 x 25mm)	511.68 LF (156 m)	26	19.68' (6 m)	ASH-25-25-06
5/16" x 3/4" (8 x 20mm)	1 1/4 x 3/4" (30 x 20mm)	419.84 LF (128m)	32	13.12' (4m)	ASH-30-20-04
3/8" x 1 1/4" (10 x 30mm)	1 1/2" x 1 1/4" (40 x 30mm)	262.40 LF (80m)	20	13.12' (4m)	ASH-40-30-04

The following are the most popular sizes for tightly-squeezed gasketing applications.

Supplied Size	Expanded Size	Box Quantity	Rolls Per Box	Roll Length	Product Code
3/32" x 3/8" (2.5 x 10mm)	3/8" x 3/8" (10 x 10mm)	1968 LF (600 m)	60	32.80 (10 m)	ASH-10-10-10
1/8" x 1/2" (3 x 12mm)	1/2" X 1/2" (12 x 12mm)	1640 LF (500m)	50	32.8' (10m)	ASH-12-12-10

AVAILABLE FROM:



TABLE 1: Typical Physical Properties of AST

Property	Value	Test Method
BASE MATERIAL	OPEN CELL, HIGH DENSITY, POLYURETHANE FOAM	N/A
Impregnation	Acrylic-modified asphalt	N/A
COLOR	BLACK	N/A
Tensile strength	21 psi min (145 kPa)	ASTM D3574
ELONGATION - ULTIMATE	150% MIN	ASTM D3574
Temperature range		ASTM C711
High - permanent	185°F (85°C)	
High - short term	203°F (95°C)	
Low	-40°F (-40°C)	
SOFTENING POINT	140°F MIN (60°C)	ASTM D816
UV resistance	Excellent	
MILDEW RESISTANCE	EXCELLENT	
Resistance to aging	Excellent	
BLEEDING	NONE	
-40°F TO 180°F (-40°C TO 85°C)		
Compression set	3% max	ASTM D3574
70°C 50% RH after 72hrs		
THERMAL CONDUCTIVITY	0.34 BTU. IN/HR. FT ² . °F (0.05 W/M. °C)	ASTM C518
Low temp. flexibility	No cracking or splitting	ASTM C711
32°F to -10°F (0°C to -23°C)		
WATER VAPOR TRANSMISSION AT 25% COMPRESSION	0.011 PERMS	ASTM C355-64