PRODUCT DATA SHEET

DOUBLEDAMP™ 1500 EXPANDABLE DAMPING SHEET

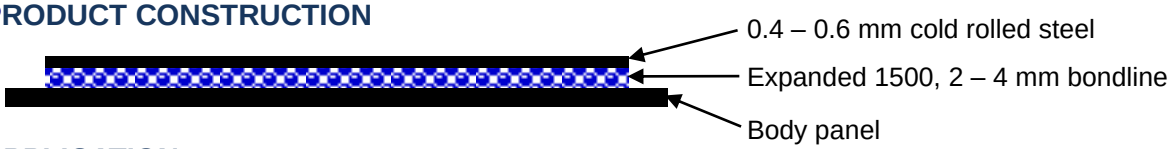
GENERAL DESCRIPTION

A high-efficiency, expandable damping material for use with stamped steel constraining layers.

FEATURES

- A non-blocking, die-cut sheet which can be heat staked to the stamped steel constraining layer
- Can also be mechanically or adhesively fastened
- Ensures complete fill between the constraining layer and the body steel
- Highest damping efficiency, especially at higher temperatures
- Assembly provides high degree of local stiffness
- Provides superior corrosion resistance to substrates
- Lighter weight, higher performance replacement for expandable asphalt

PRODUCT CONSTRUCTION



APPLICATION

- Applied in Stamping - Fabrication
  - Die-cut sheet applied to stamped steel or aluminum constraining layer
  - Fasten by heat staking, adhesive or staples
  - Welded to body panel
  - Expands & cures in E-Coat oven
  - Compatible with processes
- Treats precise areas; front of dash/plenum, tunnel, & wheel house

PROPERTIES

APPEARANCE	Black, non-tacky sheet			
SPECIFIC GRAVITY	1.4 (before expansion)			
SURFACE WEIGHT	Thickness	kg/m²	lb/ft²	
	1.0 mm (0.040 in)	1.4	0.29	
	1.5 mm (0.060 in)	2.1	0.43	
EXPANSION Bake 20MIN @ 163°C		Volumetric	Vertical Rise	
		125 - 200%	250 - 350%	
ADHESION PROPERTIES Tested on oily galvanized & cold-rolled steel	Initial	Salt Spray 250h	Heat Aging 250h @ 175°C	Humidity 250h @ 38°C &100% RH
Panels cured 20MIN @ 163°C + 30MIN @ 121°C	100% Cohesive	100% Cohesive No undercutting corrosion	100% Cohesive	100% Cohesive No undercutting corrosion
DAMPING PROPERTIES	Oberst testing for composite loss factor, η_c, was conducted per SAE J1637 0.8 mm base beam, 0.5 mm top beam, 2.5 mm bondline: 0.41 @ 25°C and 200 Hz			
SHELF LIFE	6 months when stored within proper storage conditions (15C - 35C & 25% - 50% RH)			