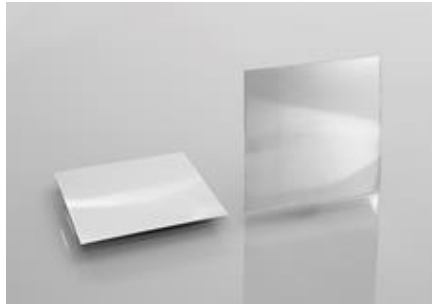


## ISOLATION / ANTI-DRUMMING

### POLYSONIC – anti-drumming sheet



POLYSONIC	Thickness	Dimensions
EV/ALU	0,5/0,06/0,5 u/i 1,5/0,1/1,5	1000 x 2000 mm 1250 x 2500 mm
EV = electro-galvanized ALU = aluminium		

**Description** Polysonic is a vibration-damping composite material consisting of two cover sheets of electro-galvanized (EV) or aluminium (ALU). These metals are separated by a visco-elastic resin layer.

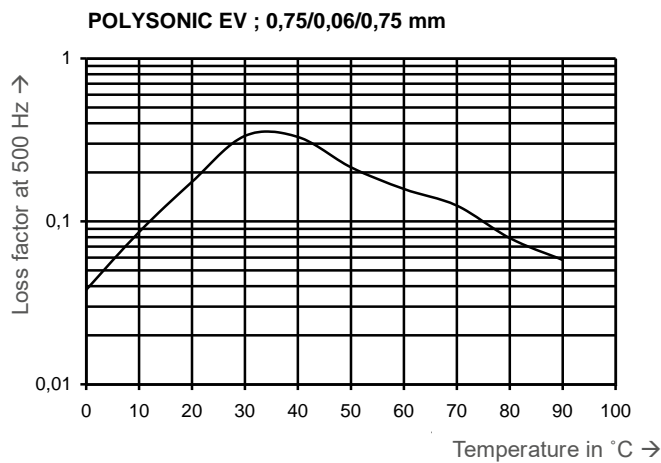
- Characteristics**
- High insulation properties and a high loss factor
  - Thin metal or aluminium sheets vibrate easily. This causes very poor sound insulating and anti-drumming properties. Adding a thin visco-elastic resin layer improve these properties significantly
  - The anti-drumming value is being determined with a loss factor, the higher the loss factor, the better the anti-drumming
  - The loss factor of steel constructions is (in most cases) between 0,001 and 0,01
  - The interlayer contains no toxin.
  - Extreme heating (> 230 °C) will cause formation of CO<sub>2</sub> and H<sub>2</sub>O
  - The loss factor of POLYSONIC plate is between 0,3 and 0,8
  - Decomposition temperature 230 °C
  - Deforming temperature 200 °C
  - Temperature resistant between -10 until 75 °C

**Application** Excellent for using as sound insulating and anti-drumming construction material for: marine industry, automotive industry, machine building, floors, partition walls, piping insulation and walkbridges etc.

**Processing** POLYSONIC plates processing at temperatures between 10 and 20 °C  
 Plates can easily be cut, die-cut, sawn, etc.  
 Bending, edging, corrugating will be no problem if the sheets can move in relation to each other  
 Mechanical connections can be applied without any preparations  
 Fixing and interconnection of POLYSONIC plates can be done with rivets or screws  
 Spot welding is possible after electrically short-circuiting the two metal plates of the sandwich construction  
 Clean with MEK, Ethyl-acetate or iso-butanol  
 Polysonic waste can be dumped as coated metal scraps

## LOSS FACTOR

Material : POLYSONIC EV (electro-galvanized steel)  
 Measured in accordance with : DIN en ISO 6721-3  
 Description : loss factor at 500 Hz – composition 0,75/0,06/0,75 mm



Material : POLYSONIC ALU (Aluminium)  
 Measured in accordance with : DIN en ISO 6721-3  
 Description : loss factor at 200 Hz - composition 1,0/0,06/1,0 mm

