

Acousteel Laminated Steel

Do's and Don'ts of Laminated steel

1 Welding

Due to the core acting as a insulating layer welding is more difficult than standard steel. The material can be welded but the process will take more time and the weld might not be as clean.

2 Folding

Due to the laminated construction when folding the outside sheet will travel further than the inside sheet. This may cause the laminating to split on small or returned folds of 50mm or less. To counteract this we recommend a split laminate of non-symmetrical steel say 2mm / 1mm for a 3mm laminate.

3 Deep Drawing

The drawability of Acousteel is equivalent to that of conventional steel of the same thickness. Nevertheless, we recommend the following: Adjust the clearances and pressure on the blank holder in order to decrease sensitivity to folding and adapt tool design in order to avoid metal polymer delamination.

PHYSICAL PROPERTIES	TYPICAL VALUES
Thickness	1.4 – 4mm
Tack	1700N/m
TEMPERATURES	
Application (minimum)	+10 degrees C
Service (continuous)	- 40 to +120 degrees C
Short Time	+140 degrees C

Important - Information on the above characteristics is based upon the tests we believe are reliable. The values given are typical values that vary according to application conditions. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine prior to use the suitability of this material for their specific purposes.