Internal Mounting System with a Laser Cutter

Description: This is a construction to insert horizontal layers inside a rectangular case

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Tools requires: Laser cutter, and sander for adjustments if needed

Examples layer plane cutouts

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4 Top/Layer plane drawing

Symbols used in drawings

Symbol Description

L Length, the internal dimension of the case
W Width, the internal dimension of the case
H Height, the internal dimension of the case

p Padding

pH Padding along the height dimension

m Material thickness

Derived symbols

Colors used in drawings

Black lines are laser-cuts

Green lines mark an alternative, simplified design

Design considerations

An issue of the design is that the front and side planes overlap if they are cut to full scale. One solution is to cut off slices of the material thickness 'm' at both ends of either the front or the side planes. The drawings show this solution for the front planes.















