

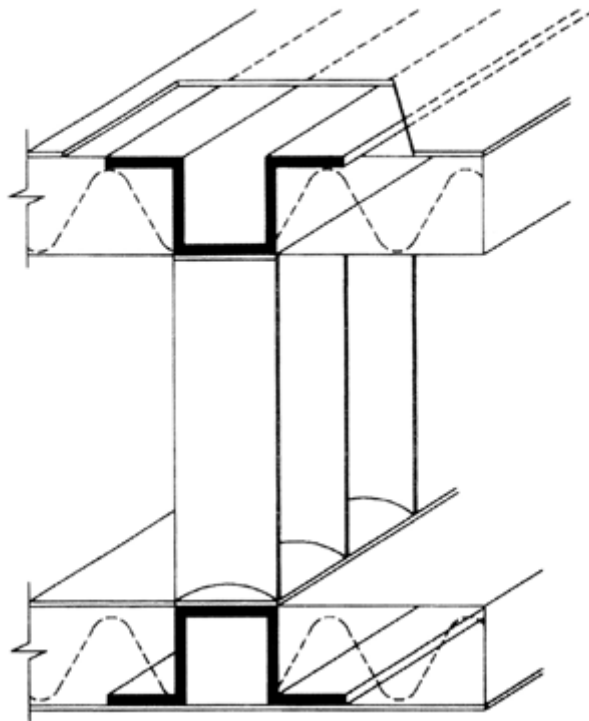
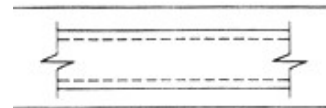


## Optional Hat Section

### BASED ON 3<sup>rd</sup> Edition 2005 SMACNA STANDARDS

Standard symbols now reflect the proper designation for showing duct liner on drawings. Duct dimensions designate net free area.

Acoustical Lining Duct Dimensions  
for NET Free Area



\*HAT section used as insulated “Build Out.” Build Out is attached to duct with sheet metal screws, bolts, or welds.

\*usage range 4001 FPM (20.3 mps) – 6000 FPM (30.5 mps)

Vanes and dampers must be insulated in a manner that will not disrupt liner, restrict damper operation, or increase friction loss.