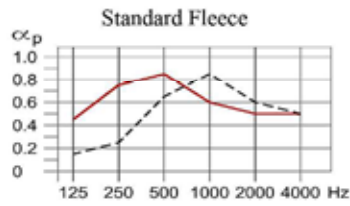




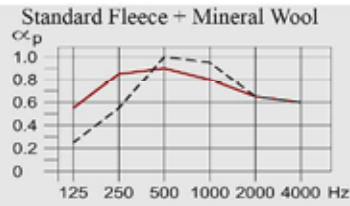
ACOUSTIC GYPSUM PLATE
SOUND ABSORPTION DIAGRAMS

12MMX12MM SQUARE PERFORATION



plenum height 60 mm -----
 α_p 0.15 0.25 0.65 0.85 0.6 0.5
 $\alpha_w = 0.55$ (M) class: D (absorbent)

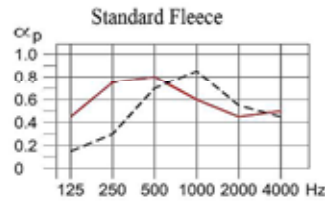
plenum height 200 mm -----
 α_p 0.25 0.35 0.65 0.75 0.65 0.55
 $\alpha_w = 0.60$ (LM) class: C (highly absorbent)



plenum height 60 mm -----
 α_p 0.25 0.55 1 0.95 0.65 0.6
 $\alpha_w = 0.70$ (M) class: C (highly absorbent)

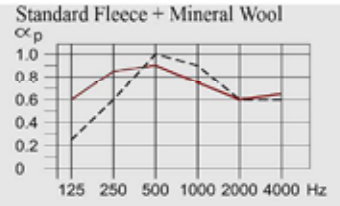
plenum height 200 mm -----
 α_p 0.35 0.55 0.95 0.95 0.65 0.6
 $\alpha_w = 0.70$ (L) class: C (highly absorbent)

12MM CIRCULAR PERFORATION



plenum height 60 mm -----
 α_p 0.15 0.3 0.7 0.85 0.55 0.45
 $\alpha_w = 0.55$ (M) class: D (absorbent)

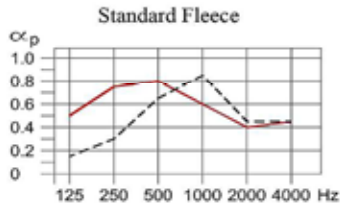
plenum height 200 mm -----
 α_p 0.25 0.35 0.65 0.8 0.55 0.5
 $\alpha_w = 0.55$ (LM) class: D (absorbent)



plenum height 60 mm -----
 α_p 0.25 0.6 1 0.9 0.6 0.6
 $\alpha_w = 0.70$ (M) class: C (highly absorbent)

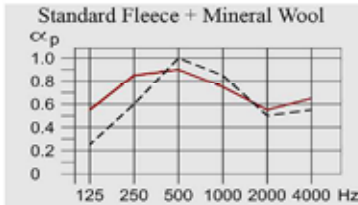
plenum height 200 mm -----
 α_p 0.35 0.55 0.95 0.95 0.65 0.6
 $\alpha_w = 0.70$ (L) class: C (highly absorbent)

15MM CIRCULAR PERFORATION



plenum height 60 mm -----
 α_p 0.15 0.3 0.65 0.85 0.45 0.45
 $\alpha_w = 0.50$ (M) class: D (absorbent)

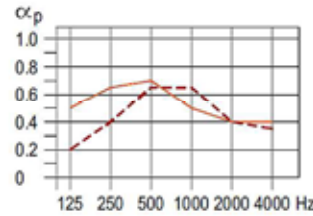
plenum height 200 mm -----
 α_p 0.25 0.35 0.65 0.8 0.55 0.5
 $\alpha_w = 0.50$ (LM) class: D (absorbent)



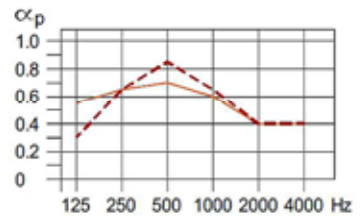
plenum height 60 mm -----
 α_p 0.25 0.6 1 0.85 0.5 0.55
 $\alpha_w = 0.60$ (M) class: C (highly absorbent)

plenum height 200 mm -----
 α_p 0.35 0.55 0.95 0.95 0.65 0.6
 $\alpha_w = 0.65$ (LM) class: C (highly absorbent)

6MM CIRCULAR PERFORATION

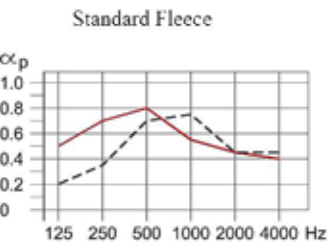


α_p 0.2 0.4 0.65 0.65 0.4 0.35
 $\alpha_w = 0.45$ class: D (absorbent)



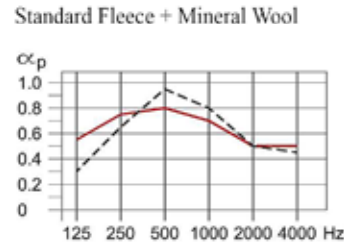
α_p 0.3 0.65 0.85 0.65 0.4 0.4
 $\alpha_w = 0.50$ (LM) class: D (absorbent)

8-12MM CIRCULAR PERFORATION



plenum height 60 mm -----
 α_p 0.2 0.35 0.7 0.75 0.45 0.45
 $\alpha_w = 0.55$ class: D (absorbent)

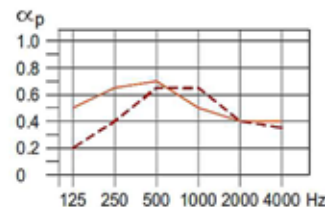
plenum height 200 mm -----
 α_p 0.35 0.55 0.95 0.95 0.65 0.6
 $\alpha_w = 0.50$ (LM) class: D (absorbent)



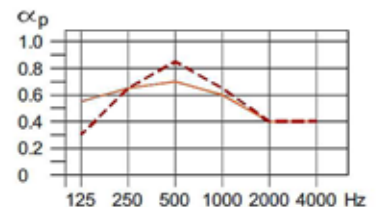
plenum height 60 mm -----
 α_p 0.3 0.65 0.95 0.8 0.5 0.45
 $\alpha_w = 0.55$ (LM) class: D (absorbent)

plenum height 200 mm -----
 α_p 0.35 0.55 0.95 0.95 0.65 0.6
 $\alpha_w = 0.60$ (L) class: C (highly absorbent)

3MMX3MM SQUARE PERFORATION



α_p 0.2 0.4 0.65 0.65 0.4 0.35
 $\alpha_w = 0.45$ class: D (absorbent)



α_p 0.3 0.65 0.85 0.65 0.4 0.4
 $\alpha_w = 0.50$ (LM) class: D (absorbent)