2.1. FOR WALL THICKNESS = 200 MM

AAC WALL 200 mm

R value (AAC Wall) = $\frac{Thickness\ (m)}{TC}$ = $\frac{0.20}{0.11}$ = 1.818 M^2.K/W

Rsi = 0.13 M^2.K/W

Rse = 0.04 M^2.K/W

Thus, the summation of (R value – Total) = $R_{AAC\ WALL} + R_{si} + R_{se}$ = 1.818 + 0.13 + 0.04 = 1.988 M^2.K/W

Therefore U - Value = $\frac{1}{Rt}$ = $\frac{1}{1.988}$ = 0.50 W/M^2.K

2.2. FOR WALL THICKNESS = 250 MM

AAC WALL 250 mm

R value (AAC Wall) = $\frac{Thickness\ (m)}{TC}$ = $\frac{0.25}{0.11}$ = 2.27 M^2.K/W

Rsi = 0.13 M^2.K/W

Rse = 0.04 M^2.K/W

Thus, the summation of (R value – Total) = $R_{AAC\ WALL} + R_{si} + R_{se}$ = 2.27 + 0.13 + 0.04 = 2.44 M^2.K/W

Therefore U - Value = $\frac{1}{Rt}$ = $\frac{1}{2.44}$ = 0.409 W/M^2.K

2.3. FOR WALL THICKNESS = 300 MM

AAC WALL 300 mm

R value (AAC Wall) = $\frac{Thickness\ (m)}{TC} = \frac{0.30}{0.11}$ = 2.72 M^2.K/W

Rsi = 0.13 M^2.K/W

Rse = 0.04 M^2.K/W

Thus, the summation of (R value – Total) = $R_{AAC\ WALL} + R_{si} + R_{se}$ = 2.72 + 0.13 + 0.04 = 2.89 M^2.K/W

Therefore U - Value = $\frac{1}{Rt} = \frac{1}{2.89}$ = 0.346 W/M^2.K

2.4. FOR WALL THICKNESS = 350 MM

AAC WALL 350 mm

R value (AAC Wall) = $\frac{Thickness\ (m)}{TC}$ = $\frac{0.35}{0.11}$ = 3.18 M^2.K/W

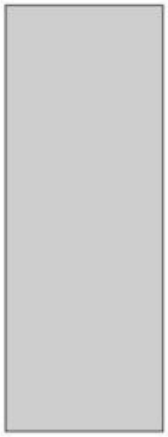
Rsi = 0.13 M^2.K/W

Rse = 0.04 M^2.K/W

Thus, the summation of (R value – Total) = $R_{AAC\ WALL} + R_{si} + R_{se}$ = 3.18 + 0.13 + 0.04 = 3.35 M^2.K/W

Therefore U - Value = $\frac{1}{Rt}$ = $\frac{1}{3.35}$ = 0.298 W/M^2.K

2.5. FOR WALL THICKNESS = 400 MM



AAC WALL 400 mm

R value (AAC Wall) = $\frac{Thickness\ (m)}{TC} = \frac{0.40}{0.11}$ = 3.36 M^2.K/W

Rsi = 0.13 M^2.K/W

Rse = 0.04 M^2.K/W

Thus, the summation of (R value – Total) = $R_{AAC\ WALL} + R_{si} + R_{se}$ = 3.63 + 0.13 + 0.04 = 3.80 M^2.K/W

Therefore U - Value = $\frac{1}{Rt} = \frac{1}{3.80}$ = 0.26 W/M^2.K