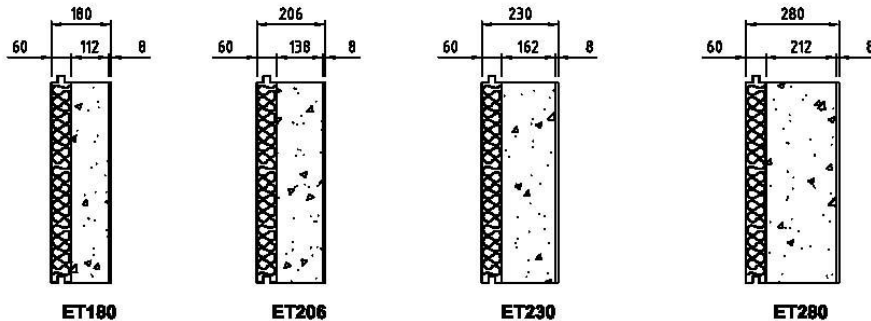


Calculations of R-values for FormPro ET Walls



General assumptions made in the calculations are:

- Thermal conductivity for Concrete at density 2850 Kg/m³ = 1.44 W/mK
- Thermal conductivity of Fibre cement = 0.173 W/mK
- Thermal Conductivity for EPS at density of 26 Kg/m³ and mean temperature 23°C = 0.0376 W/mK
- Thermal conductivity of Plasterboard = 0.173 W/mK
- 3.4m/s wind and surface emittance = 0.9

Non-variable R-value contribution - (thickness (m) / k)

Outside air		= 0.044
8mm Fibre Cement	= 0.008 / 0.173	= 0.046
60mm EPS	= 0.060 / 0.0376	= 1.596
10mm Plasterboard	= 0.010 / 0.173	= 0.057
Inside air		= 0.12
Total Non-variable contribution		= 1.863

Variable R-value contribution - (thickness (m) / k)

Concrete:		
ET180 (112mm conc.)	= 0.112 / 1.44	= 0.078
ET206 (138mm conc.)	= 0.138 / 1.44	= 0.096
ET230 (162mm conc.)	= 0.162 / 1.44	= 0.113
ET280 (212mm conc.)	= 0.212 / 1.44	= 0.147

Product	Model	Total Wall Thickness	Concrete Thickness	Concrete R-value	Total R-value
FormPro	ET180	180mm	112mm	0.078	1.941
FormPro	ET206	206mm	138mm	0.096	1.959
FormPro	ET230	230mm	162mm	0.113	1.976
FormPro	ET280	280mm	212mm	0.147	2.010