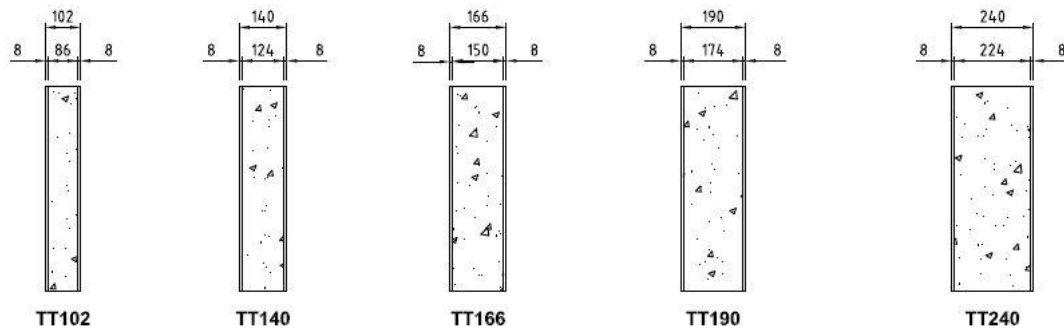


Calculations of R-values for FormPro TT Walls



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
- 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
8mm Fibre Cement	= 0.008 / 0.173	= 0.046
Inside air		= 0.12
Total Non-variable contribution		= 0.26

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

Concrete:		
TT102 (86mm conc.)	= 0.086 / 1.44	= 0.059
TT140 (124mm conc.)	= 0.124 / 1.44	= 0.086
TT166 (150mm conc.)	= 0.150 / 1.44	= 0.104
TT190 (174mm conc.)	= 0.174 / 1.44	= 0.120
TT240 (224mm conc.)	= 0.224 / 1.44	= 0.155

Product	Model	Total Wall Thickness	Concrete Thickness	Concrete R-value	Total R-value
FormPro	TT102	102mm	86mm	0.059	0.315
FormPro	TT140	140mm	124mm	0.086	0.342
FormPro	TT166	166mm	150mm	0.104	0.360
FormPro	TT190	190mm	174mm	0.120	0.376
FormPro	TT240	240mm	224mm	0.155	0.411