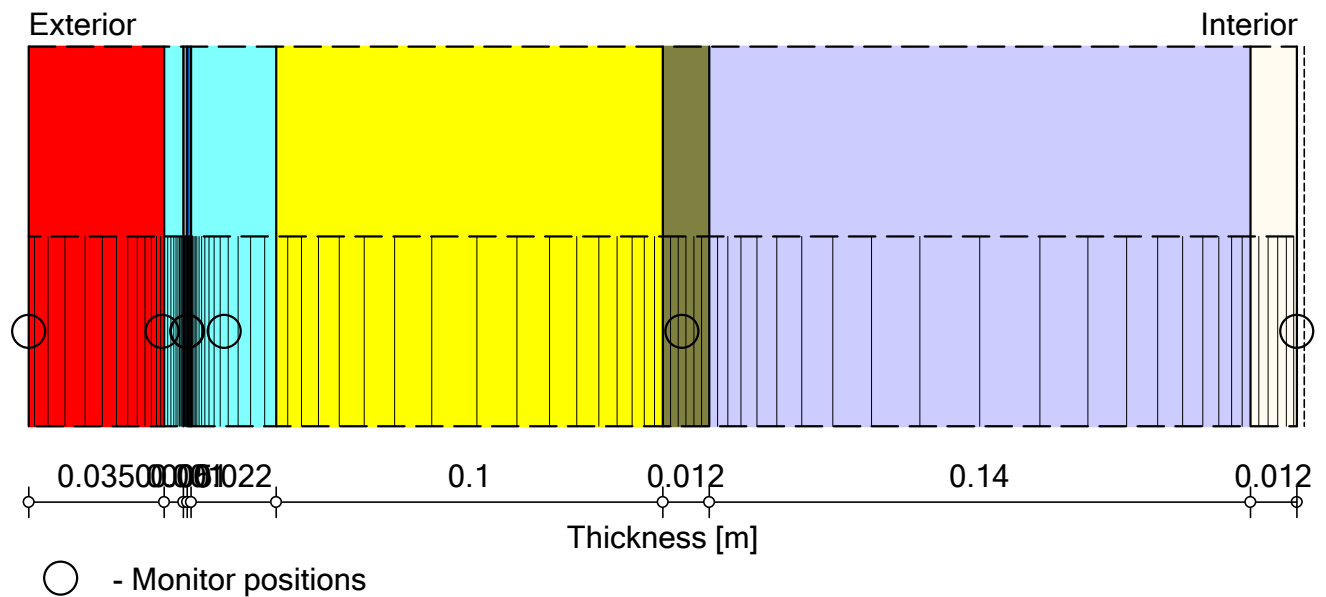

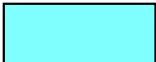









Component Assembly

Case: Same as 2, but with Vapour Barrier



Materials:

	- Solid Brick Masonry	0.035 m
	- Air Layer 5 mm; without additional moisture capacity	0.005 m
	- *Perforated Metal Sheet - RWS - 3/25/2	0.001 m
	- *TLX UV10 Breather Membrane - RWS	0.001 m
	- Air Layer 20 mm; without additional moisture capacity	0.022 m
	- *100mm Phenolic Insulation with 75mm Timber Studs - RWS	0.1 m
	- *Cement Particle Board - RWS	0.012 m
	- *140mm SFS with Mineral Wool - RWS	0.14 m
	- Gypsum Board; PCM	0.012 m

Sd-Value Int. [m]: 100.0

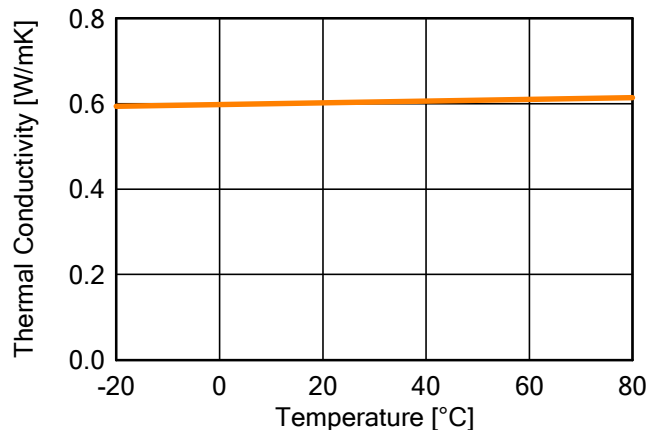
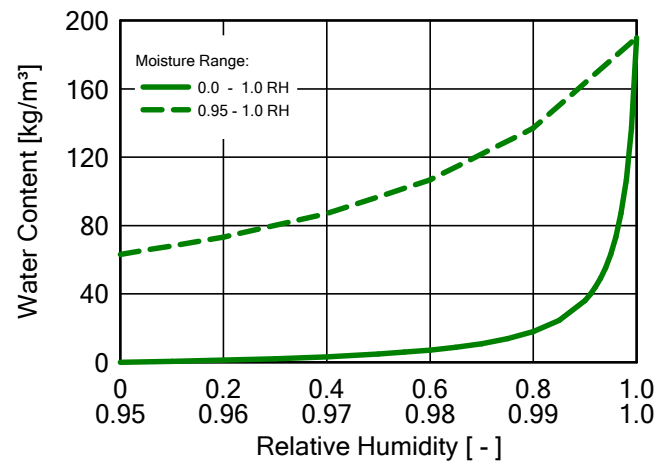
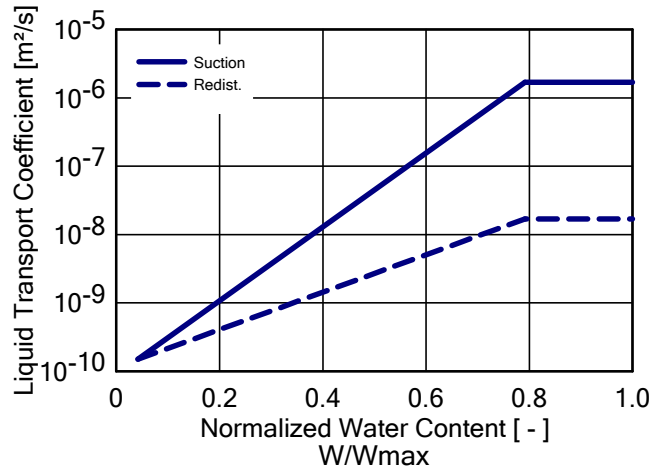
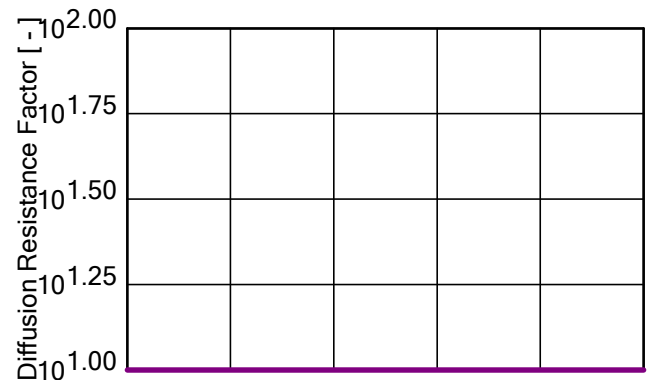
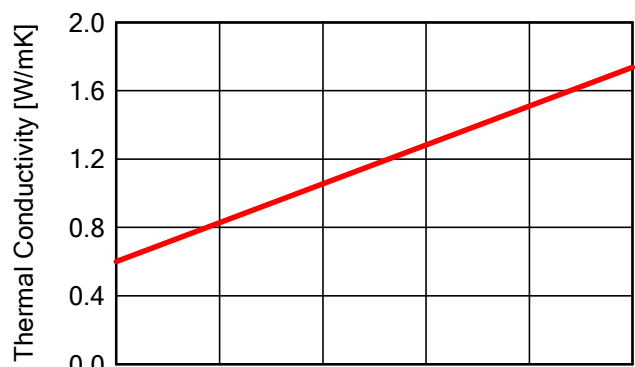
Total Thickness: 0.328 m

R-Value: 5.53 m²K/W

U-Value: 0.175 W/m²K

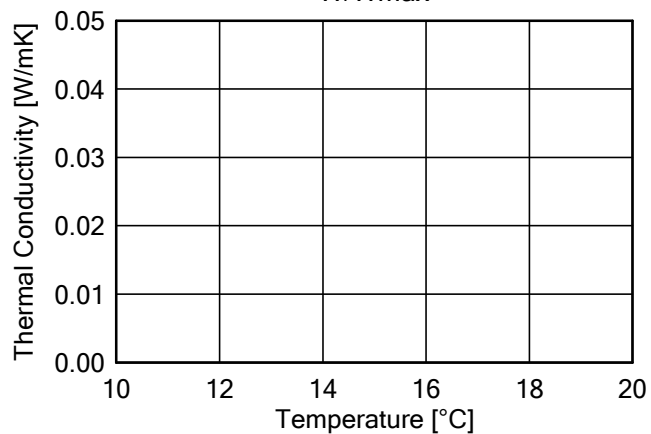
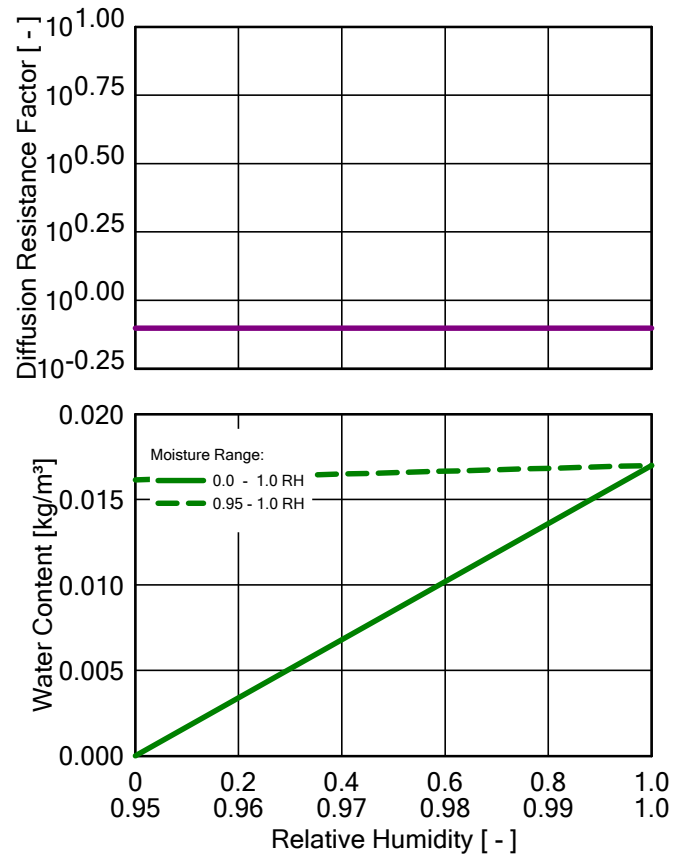
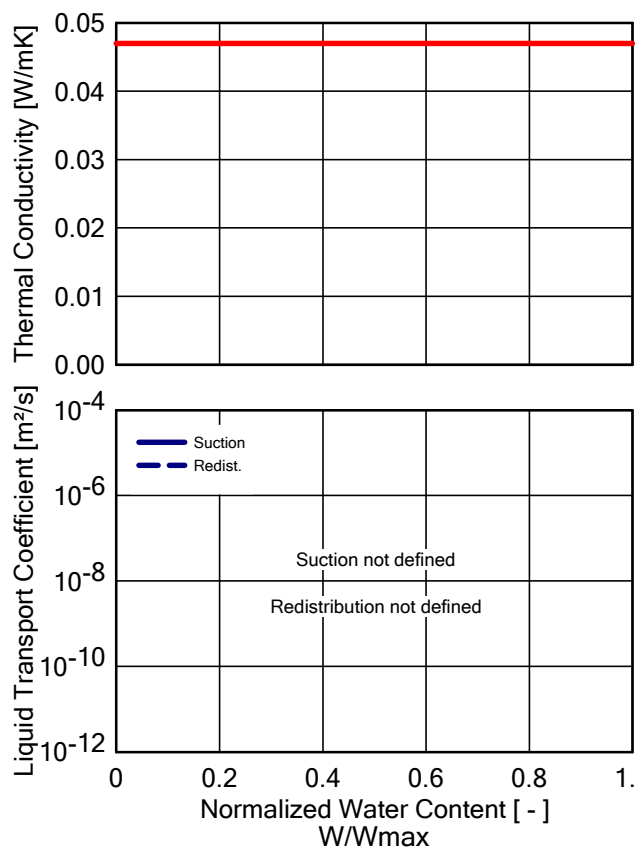
Material: Solid Brick Masonry

Property	Unit	Value
Bulk density	[kg/m³]	1900.0
Porosity	[m³/m³]	0.24
Specific Heat Capacity, Dry	[J/kgK]	850.0
Thermal Conductivity, Dry, 10°C	[W/mK]	0.6
Water Vapour Diffusion Resistance Factor	[-]	10.0
Reference Water Content	[kg/m³]	18.0
Free Water Saturation	[kg/m³]	190.0
Moisture-dep. Thermal Cond. Supplement	[%/M.-%]	15.0
Temp-dep. Thermal Cond. Supplement	[W/mK²]	0.0002



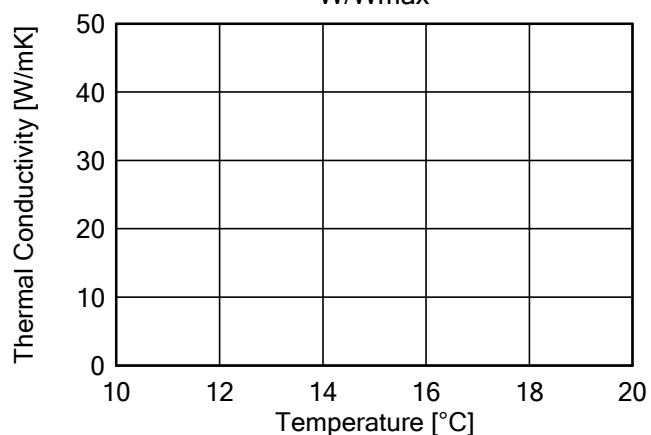
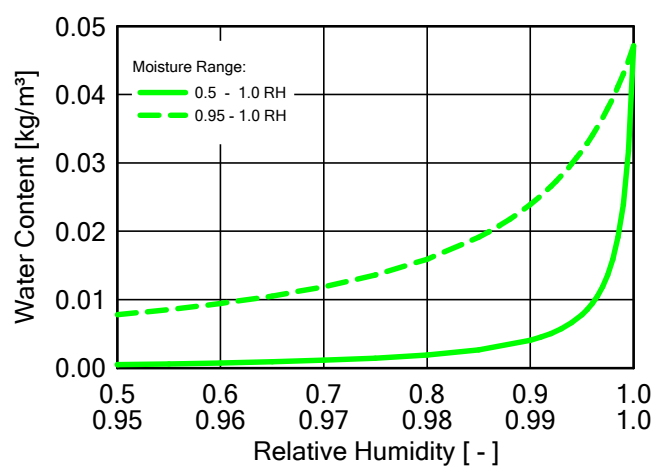
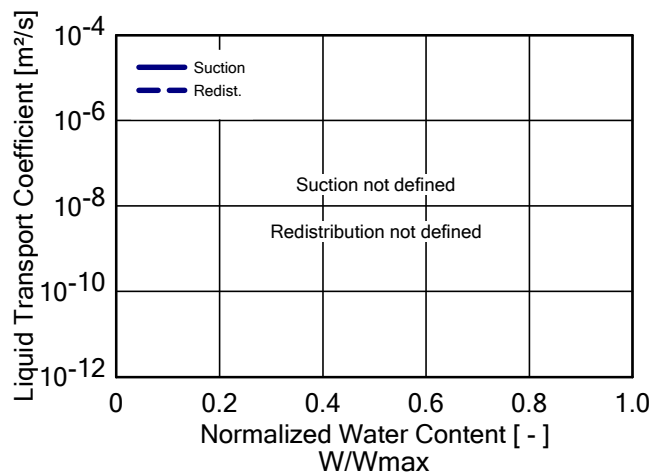
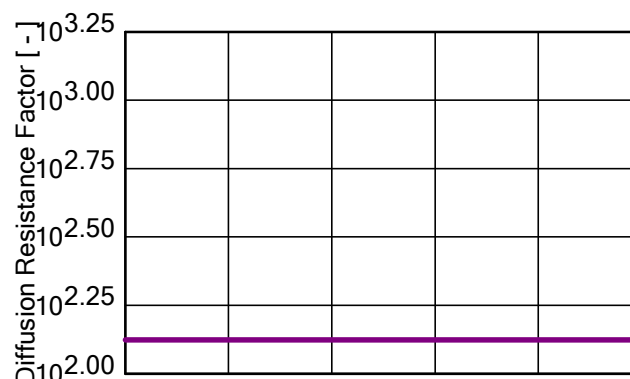
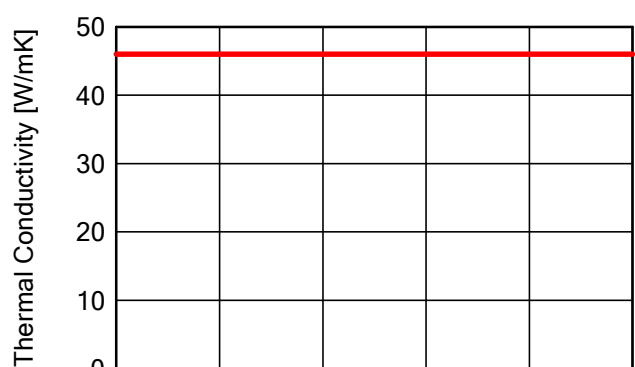
Material: Air Layer 5 mm; without additional moisture capacity

Property	Unit	Value
Bulk density	[kg/m ³]	1.3
Porosity	[m ³ /m ³]	0.999
Specific Heat Capacity, Dry	[J/kgK]	1000.0
Thermal Conductivity, Dry, 10°C	[W/mK]	0.047
Water Vapour Diffusion Resistance Factor	[-]	0.79



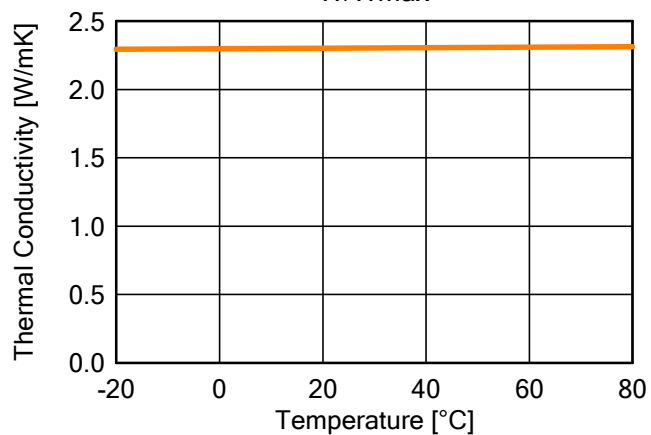
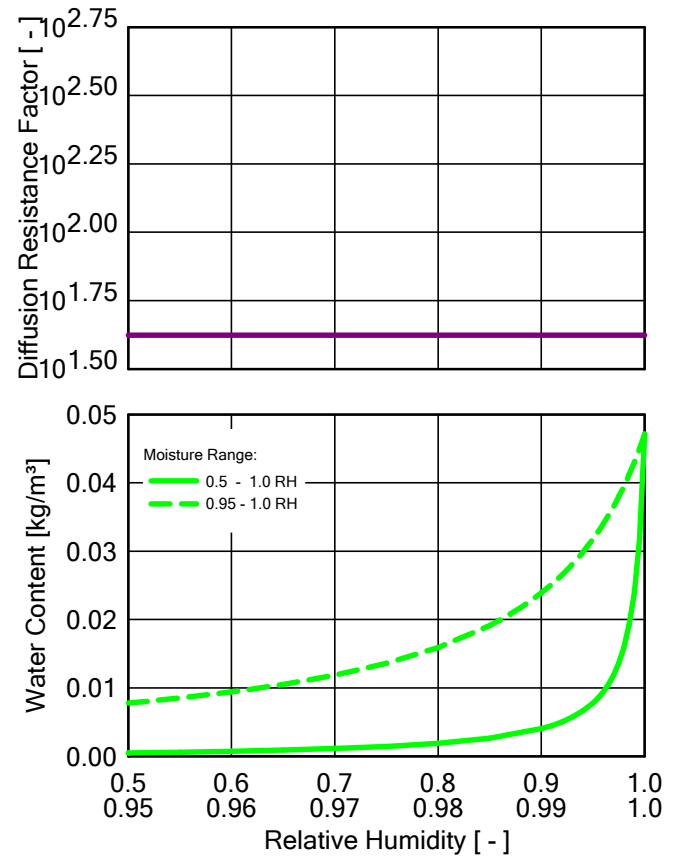
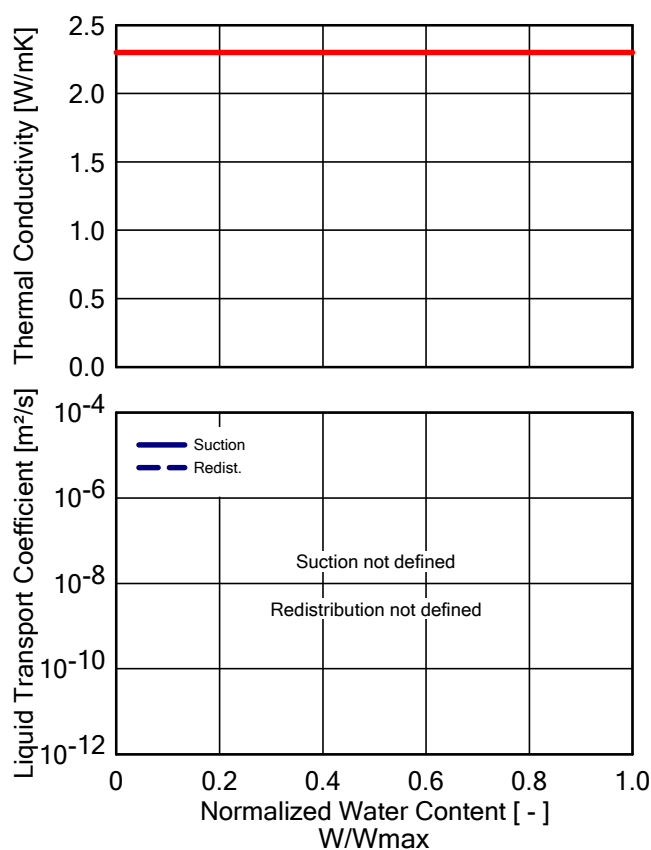
Material: *Perforated Metal Sheet - RWS - 3/25/2

Property	Unit	Value
Bulk density	[kg/m ³]	7800.0
Porosity	[m ³ /m ³]	0.001
Specific Heat Capacity, Dry	[J/kgK]	502.0
Thermal Conductivity, Dry, 10°C	[W/mK]	46.0
Water Vapour Diffusion Resistance Factor	[-]	133.0



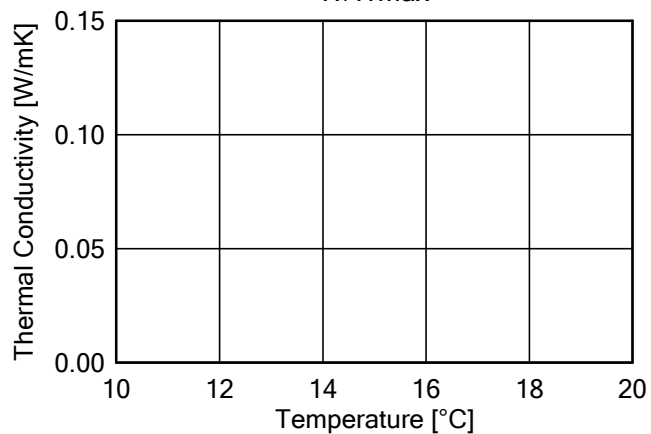
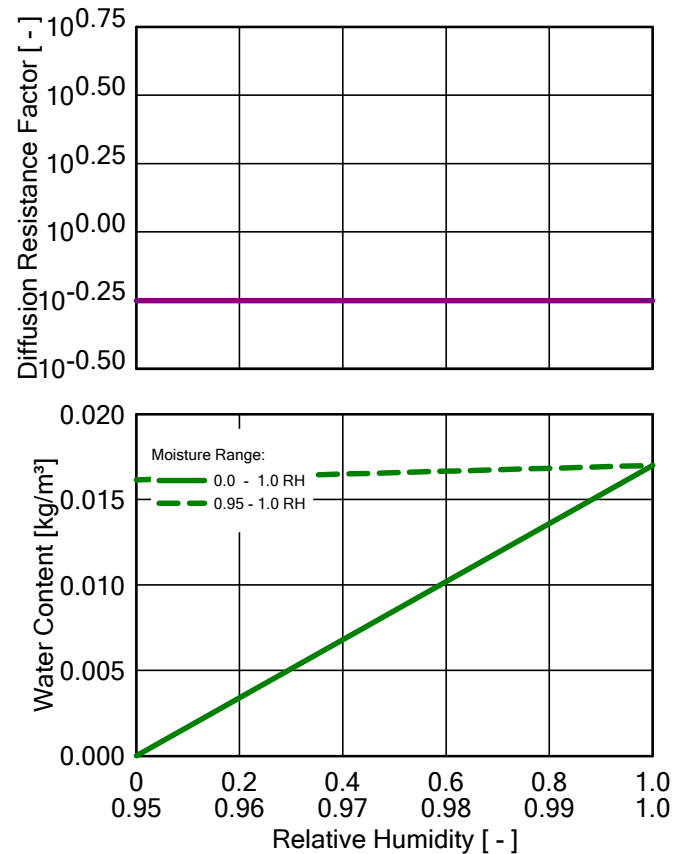
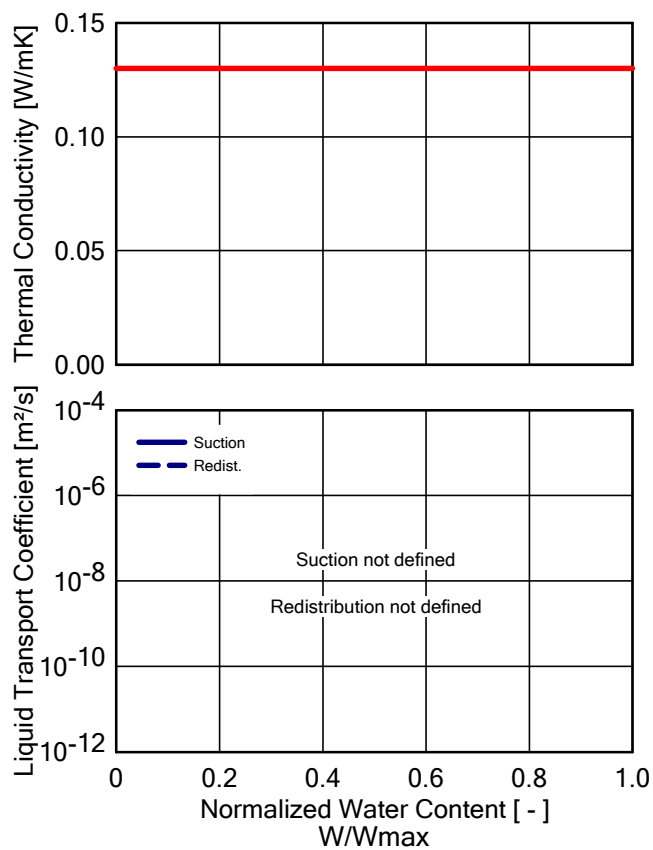
Material: *TLX UV10 Breather Membrane - RWS

Property	Unit	Value
Bulk density	[kg/m ³]	659.0
Porosity	[m ³ /m ³]	0.001
Specific Heat Capacity, Dry	[J/kgK]	2300
Thermal Conductivity, Dry, 10°C	[W/mK]	2.3
Water Vapour Diffusion Resistance Factor	[-]	42.0
Temp-dep. Thermal Cond. Supplement	[W/mK ²]	0.0002



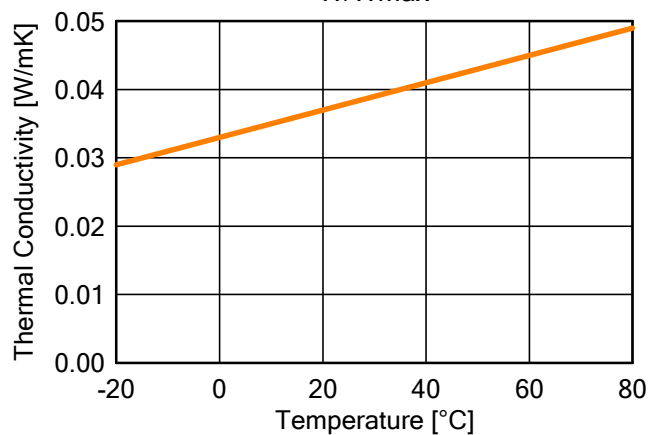
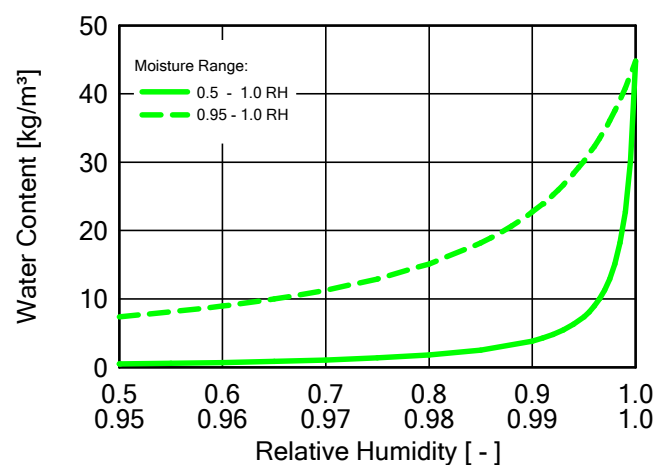
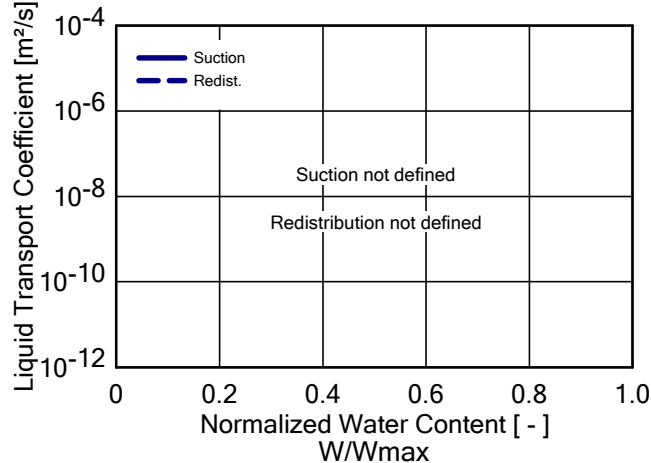
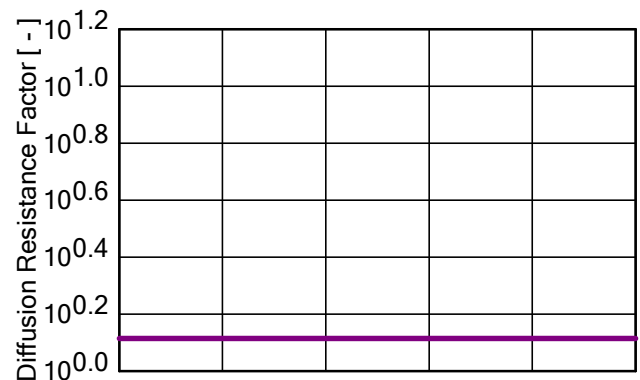
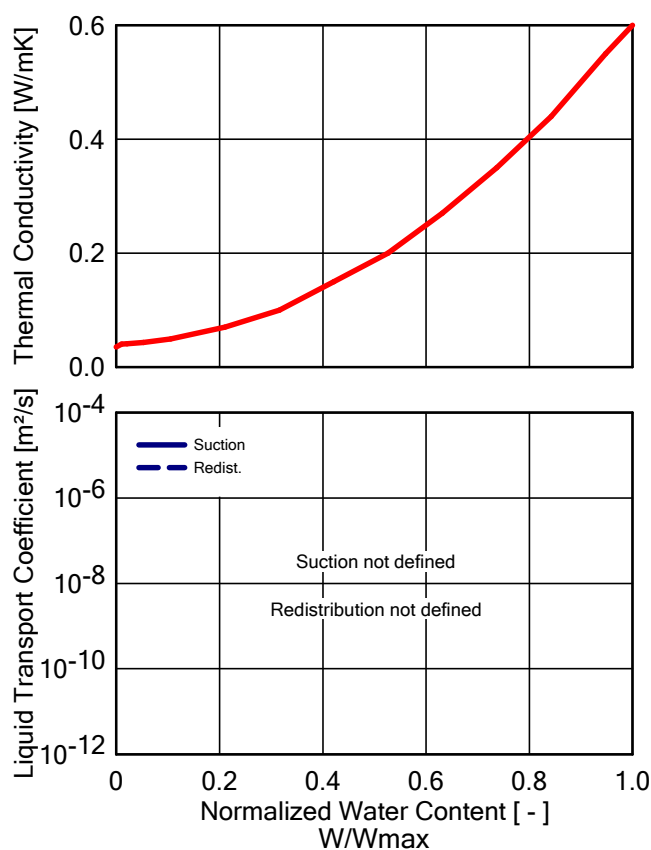
Material: Air Layer 20 mm; without additional moisture capacity

Property	Unit	Value
Bulk density	[kg/m ³]	1.3
Porosity	[m ³ /m ³]	0.999
Specific Heat Capacity, Dry	[J/kgK]	1000.0
Thermal Conductivity, Dry, 10°C	[W/mK]	0.13
Water Vapour Diffusion Resistance Factor	[-]	0.56



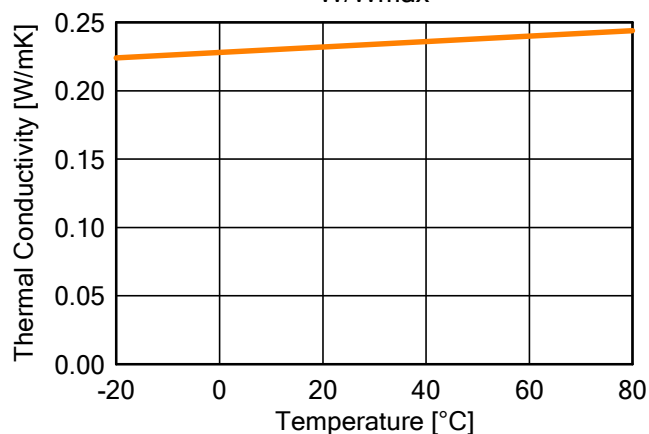
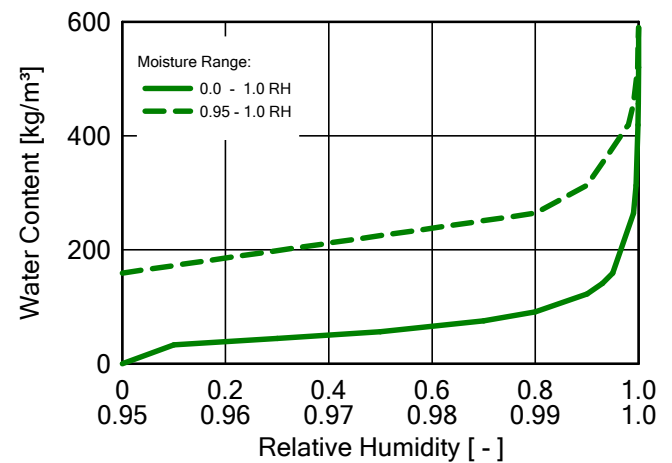
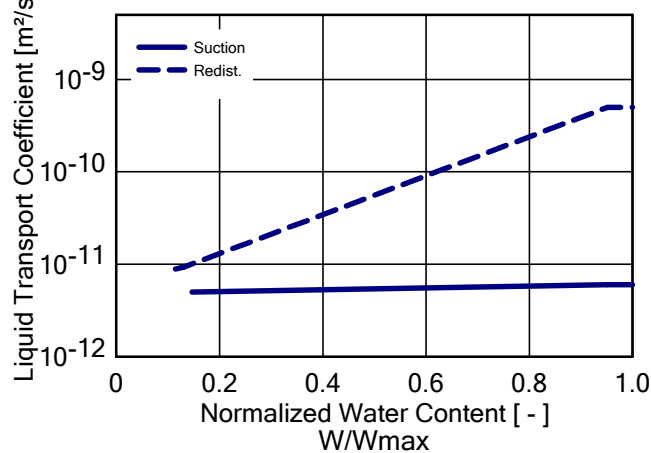
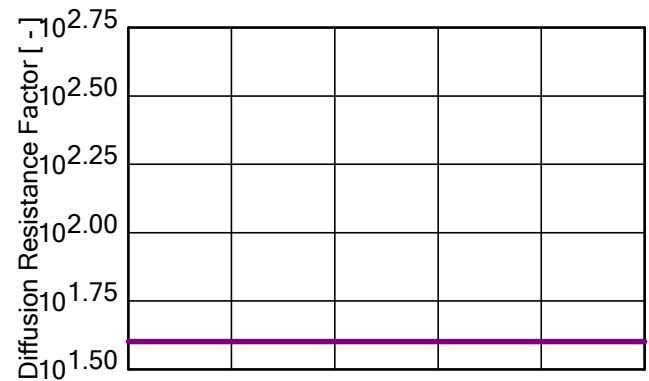
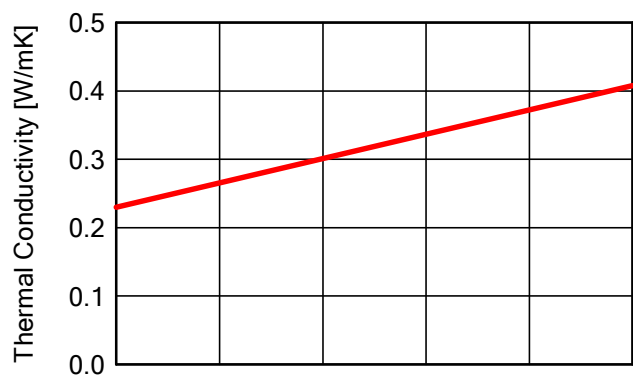
Material: *100mm Phenolic Insulation with 75mm Timber Studs - RWS

Property	Unit	Value
Bulk density	[kg/m³]	60.0
Porosity	[m³/m³]	0.95
Specific Heat Capacity, Dry	[J/kgK]	850
Thermal Conductivity, Dry, 10°C	[W/mK]	0.035
Water Vapour Diffusion Resistance Factor	[-]	1.3
Temp-dep. Thermal Cond. Supplement	[W/mK²]	0.0002



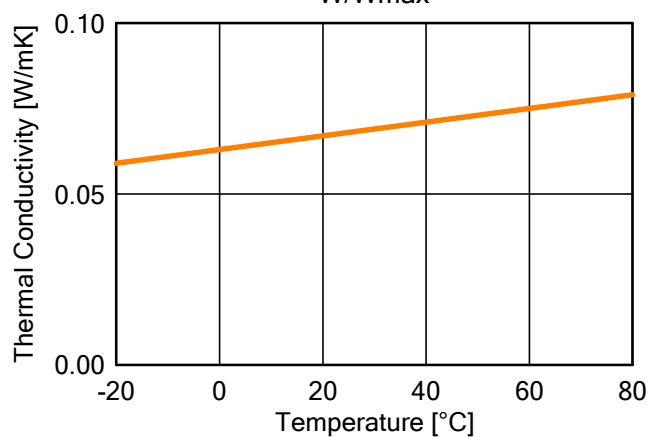
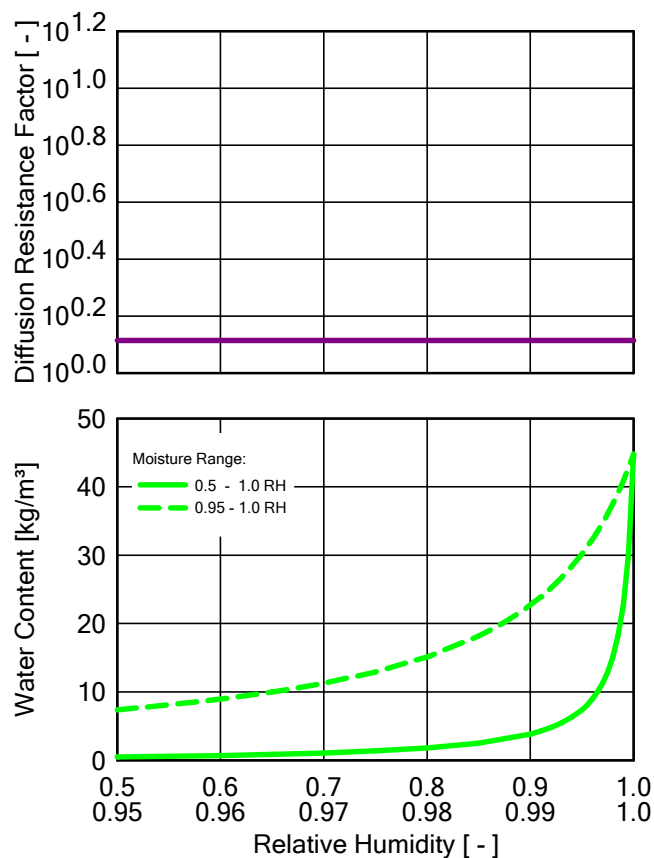
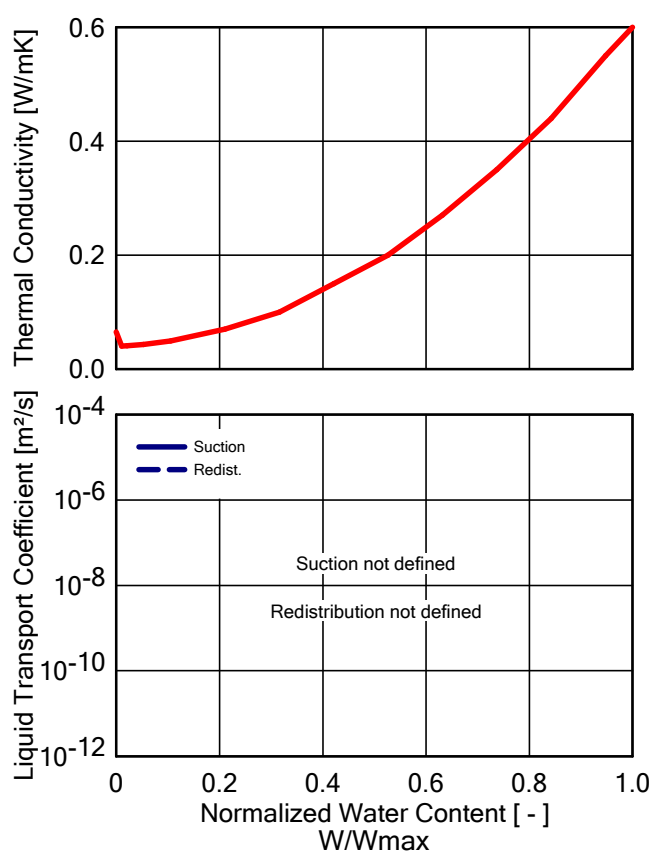
Material: *Cement Particle Board - RWS

Property	Unit	Value
Bulk density	[kg/m³]	1200.0
Porosity	[m³/m³]	0.62
Specific Heat Capacity, Dry	[J/kgK]	1500
Thermal Conductivity, Dry, 10°C	[W/mK]	0.23
Water Vapour Diffusion Resistance Factor	[-]	40.0
Moisture-dep. Thermal Cond. Supplement	[%/M.-%]	1.5
Temp-dep. Thermal Cond. Supplement	[W/mK²]	0.0002



Material: *140mm SFS with Mineral Wool - RWS

Property	Unit	Value
Bulk density	[kg/m ³]	60.0
Porosity	[m ³ /m ³]	0.95
Specific Heat Capacity, Dry	[J/kgK]	850.0
Thermal Conductivity, Dry, 10°C	[W/mK]	0.065
Water Vapour Diffusion Resistance Factor	[-]	1.3
Temp-dep. Thermal Cond. Supplement	[W/mK ²]	0.0002



Material: Gypsum Board; PCM

Property	Unit	Value
Bulk density	[kg/m ³]	800.0
Porosity	[m ³ /m ³]	0.65
Specific Heat Capacity, Dry	[J/kgK]	---
Thermal Conductivity, Dry, 10°C	[W/mK]	0.2
Water Vapour Diffusion Resistance Factor	[-]	8.0
Moisture-dep. Thermal Cond. Supplement	[%/M.-%]	8.0
Temp-dep. Thermal Cond. Supplement	[W/mK ²]	0.0002

