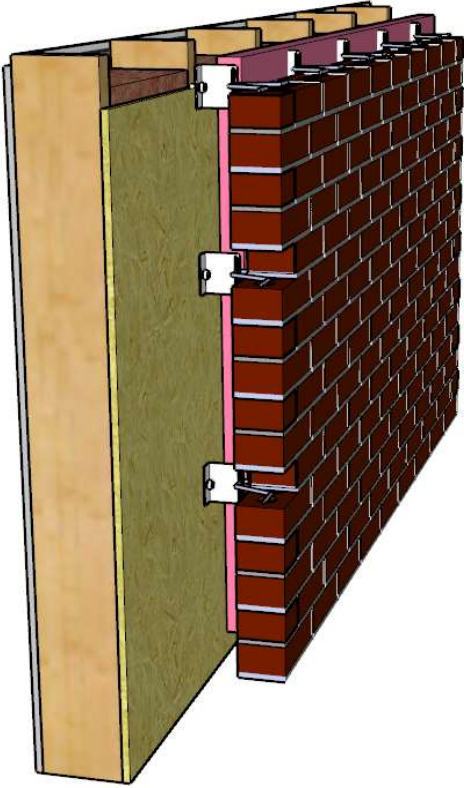
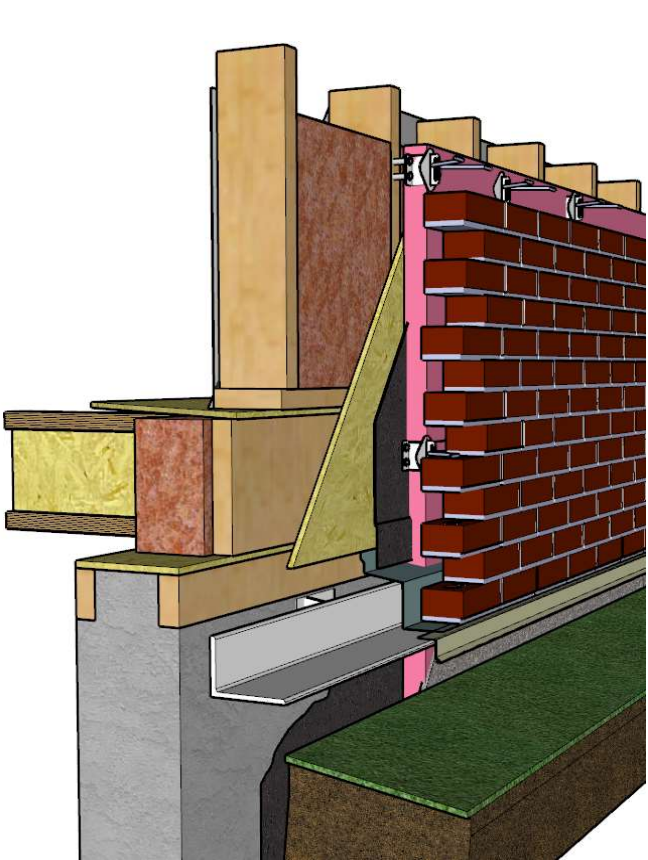
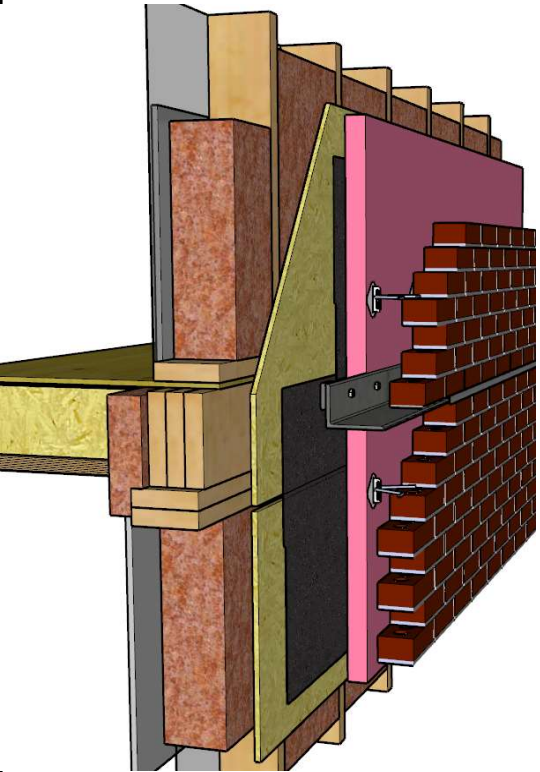


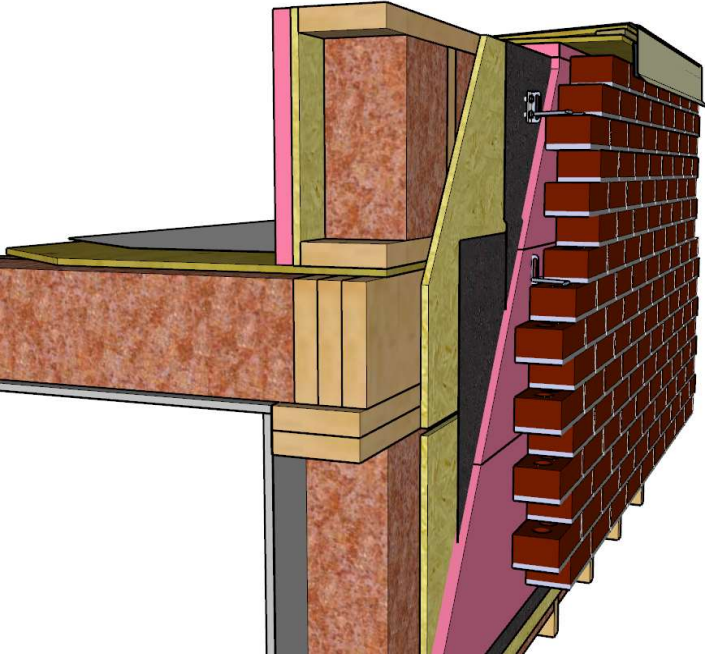
MASONRY ASSEMBLY THERMAL CATALOG – Brick Veneer Wood Stud (BVWS)

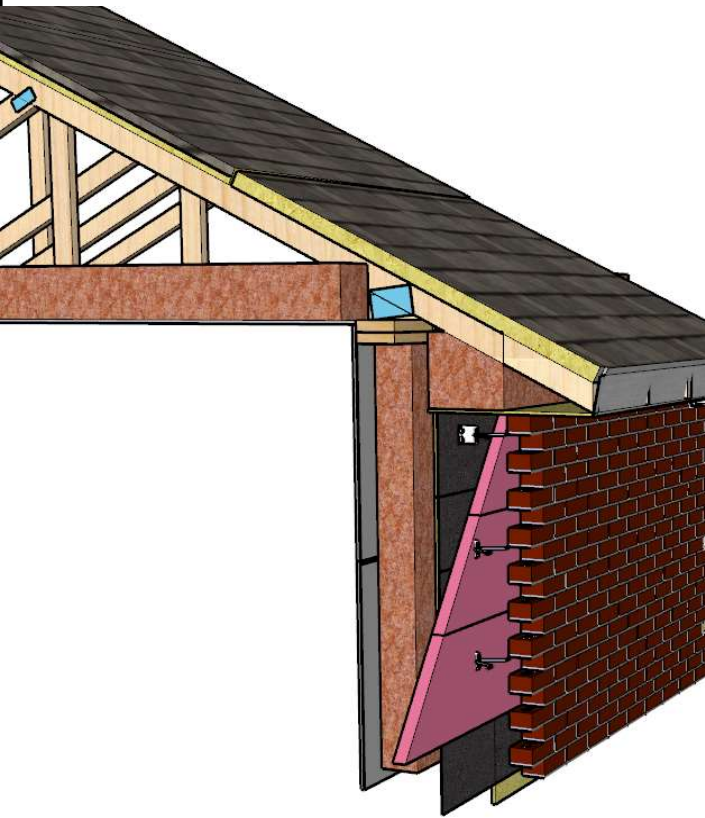


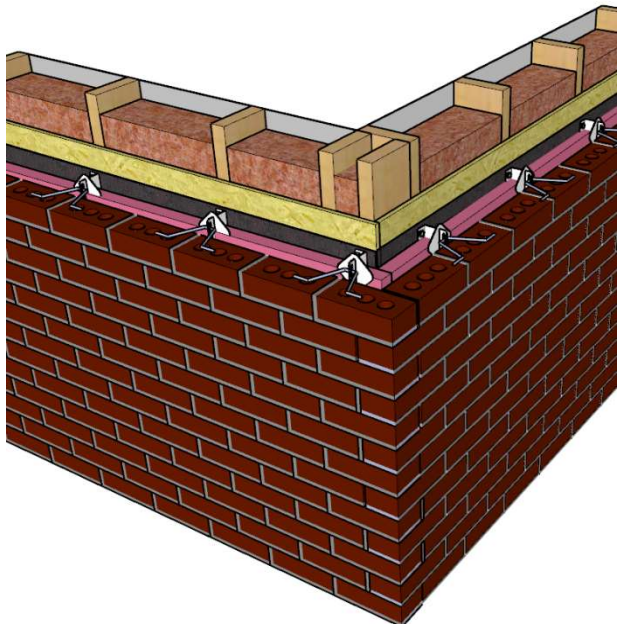
2x6 Wood-Stud & Brick - Clear Wall	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI used in model (m ² K/W)	Exterior Insulation (R-value)	Effective U _o (W/m ² K)	Effective Wall (R-value)
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R19 Batt.	Exterior Film	33.33	0.03	0	0.2874	19.8
		Brick Veneer	1.39	0.72	5	0.2294	24.8
		25 mm (1") Air Gap	6.25	0.16	10	0.1850	30.7
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.1590	35.7
			50.0	0.0000952	20	0.1406	40.4
		Exterior Insulation	varies	varies	25	0.1263	44.9
		Exterior Grade OSB or Plywood			30	0.1147	49.5
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.1048	54.2
		13 mm (1/2") Gypxum	6.25	0.16	40	0.0962	59.0
		Interior Film	6.25	0.16	45	0.0887	64.0
					50	0.0819	69.3
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R22 Batt.	Exterior Film	33.33	0.03	0	0.2659	21.4
		Brick Veneer	1.39	0.72	5	0.2123	26.8
		25 mm (1") Air Gap	6.25	0.16	10	0.1737	32.7
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.1506	37.7
			50.0	0.0000952	20	0.1340	42.4
		Exterior Insulation	varies	varies	25	0.1209	47.0
		Exterior Grade OSB or Plywood			30	0.1101	51.6
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.1010	56.2
		13 mm (1/2") Gypxum	6.25	0.16	40	0.0930	61.1
		Interior Film	6.25	0.16	45	0.0859	66.1
					50	0.0795	71.4

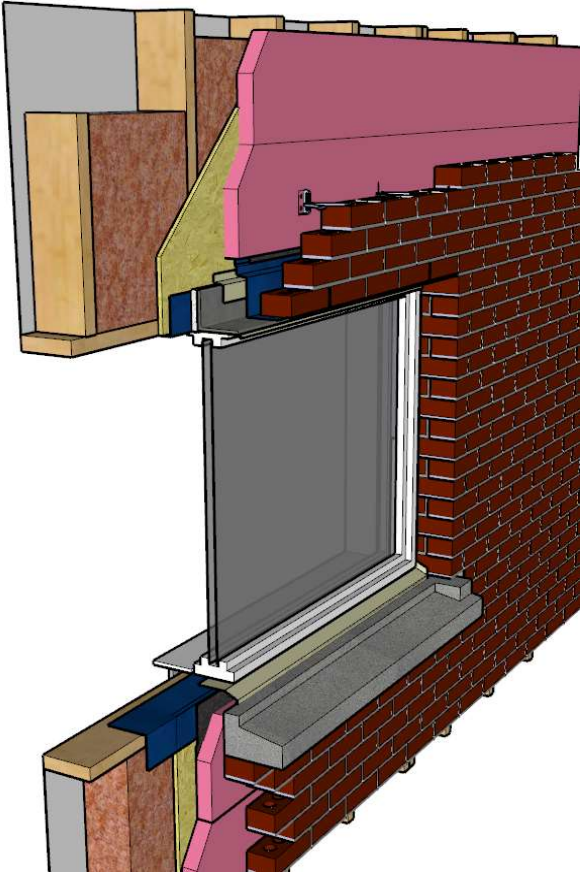
2x6 Wood-Stud & Brick - At-Grade	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI used in model (m² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation On 1/2" steel knife plate or 1/4" HSS 2x6 Wood Stud with R19 Batt.	Exterior Film	33.33	0.03	0	0.325
		Brick Veneer	1.39	0.72	5	0.260
		25 mm (1") Air Gap	6.25	0.16	10	0.167
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.099
			50.0	0.0000952	20	0.074
		Exterior Insulation	varies	varies	25	0.055
		Exterior Grade OSB or Plywood			30	0.039
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.034
		13 mm (1/2") Gypxum	6.25	0.16	40	0.031
		Interior Film	6.25	0.16	45	0.027
		Soil	0.444	2.25	50	0.024
	90 mm (4") Brick veneer Exterior Insulation On 1/2" steel knife plate or 1/4" HSS 2x6 Wood Stud with R22 Batt.	Exterior Film	33.33	0.03	0	0.301
		Brick Veneer	1.39	0.72	5	0.240
		25 mm (1") Air Gap	6.25	0.16	10	0.157
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.094
			50.0	0.0000952	20	0.071
		Exterior Insulation	varies	varies	25	0.052
		Exterior Grade OSB or Plywood			30	0.037
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.033
		13 mm (1/2") Gypxum	6.25	0.16	40	0.030
		Interior Film	6.25	0.16	45	0.026
		Soil	0.444	2.25	50	0.023

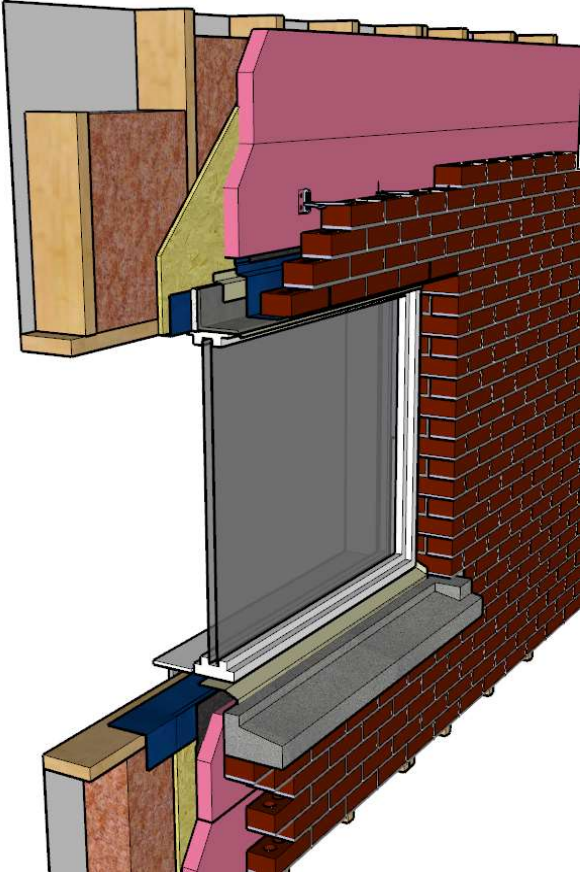
2x6 Wood-Stud & Brick - Floor	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI used in model (m ² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation On 1/2" steel knife plate or 1/4" HSS 2x6 Wood Stud with R19 Batt.	Exterior Film	33.33	0.03	0	0.082
		Brick Veneer	1.39	0.72	5	0.066
		25 mm (1") Air Gap	6.25	0.16	10	0.044
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.032
			50.0	0.0000952	20	0.026
		Exterior Insulation	varies	varies	25	0.021
		Exterior Grade OSB or Plywood			30	0.017
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.015
		13 mm (1/2") Gypxum	6.25	0.16	40	0.013
		Interior Film	6.25	0.16	45	0.012
					50	0.011
	90 mm (4") Brick veneer Exterior Insulation On 1/2" steel knife plate or 1/4" HSS 2x6 Wood Stud with R22 Batt.	Exterior Film	33.33	0.03	0	0.076
		Brick Veneer	1.39	0.72	5	0.061
		25 mm (1") Air Gap	6.25	0.16	10	0.042
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.031
			50.0	0.0000952	20	0.025
		Exterior Insulation	varies	varies	25	0.020
		Exterior Grade OSB or Plywood			30	0.016
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.014
		13 mm (1/2") Gypxum	6.25	0.16	40	0.013
		Interior Film	7.692	0.13	45	0.012
					50	0.011

2x6 Wood-Stud & Brick - Parapet	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI used in model (m ² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer	Exterior Film	33.33	0.03	0	0.0188
	Exterior Insulation	Brick Veneer	1.39	0.72	5	0.015
2x6 Wood Stud with R19 Batt.		25 mm (1") Air Gap	6.25	0.16	10	0.048
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	varies	varies	15	0.067
			50.0	0.0000952	20	0.081
		Exterior Insulation			25	0.091
		Exterior Grade OSB or Plywood	2.00	0.50	30	0.100
		2x6 Wood Stud with R19 Batt.	6.25	0.16	35	0.108
		13 mm (1/2") Gypxum			40	0.114
		Interior Film			45	0.120
					50	0.125
	90 mm (4") Brick veneer	Exterior Film	33.33	0.03	0	0.017
	Exterior Insulation	Brick Veneer			5	0.013
	2x6 Wood Stud with R22 Batt.	25 mm (1") Air Gap	1.39	0.72	10	0.045
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	6.25	0.16	15	0.063
			varies	varies	20	0.077
		Exterior Insulation	50.0	0.0000952	25	0.088
		Exterior Grade OSB or Plywood			30	0.096
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.104
		13 mm (1/2") Gypxum	6.25	0.16	40	0.110
		Interior Film			45	0.116
					50	0.121

2x6 Wood-Stud & Brick - Sloped Roof	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI used in model (m ² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R19 Batt.	Exterior Film	33.33	0.03	0	0.000
		Brick Veneer	1.39	0.72	5	0.016
		25 mm (1") Air Gap	6.25	0.16	10	0.053
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	varies	varies	15	0.074
			50.0	0.0000952	20	0.090
		Exterior Insulation			25	0.102
		Exterior Grade OSB or Plywood	2.00	0.50	30	0.111
		2x6 Wood Stud with R19 Batt.	6.25	0.16	35	0.119
		13 mm (1/2") Gypxum			40	0.127
		Interior Film			45	0.133
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R22 Batt.	Exterior Film	33.33	0.03	0	0.0000
		Brick Veneer			5	0.015
		25 mm (1") Air Gap	1.39	0.72	10	0.050
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	6.25	0.16	15	0.071
			varies	varies	20	0.086
		Exterior Insulation	50.0	0.0000952	25	0.097
		Exterior Grade OSB or Plywood			30	0.107
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.115
		13 mm (1/2") Gypxum	6.25	0.16	40	0.122
		Interior Film			45	0.129
					50	0.134

2x6 Wood-Stud & Brick - Corner	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI (m ² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R19 Batt.	Exterior Film Brick Veneer 25 mm (1") Air Gap Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c. Exterior Insulation Exterior Grade OSB or Plywood 2x6 Wood Stud with R19 Batt. 13 mm (1/2") Gypxum Interior Film	33.33 1.39 6.25 50.0 50.0 varies 2.00 6.25 6.25	0.03 0.72 0.16 0.0000952 0.0000952 varies 0.5 0.16 0.16	0 5 10 15 20 25 30 35 40 45 50	0.124 0.099 0.084 0.076 0.070 0.065 0.062 0.058 0.056 0.053 0.051
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R22 Batt.	Exterior Film Brick Veneer 25 mm (1") Air Gap Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c. Exterior Insulation Exterior Grade OSB or Plywood 2x6 Wood Stud with R19 Batt. 13 mm (1/2") Gypxum Interior Film	33.33 1.39 6.25 50.0 50.0 varies 2.00 6.25 6.25	0.03 0.72 0.16 0.0000952 0.0000952 varies 0.5 0.16 0.16	0 5 10 15 20 25 30 35 40 45 50	0.115 0.092 0.079 0.072 0.067 0.063 0.059 0.056 0.054 0.051 0.049

2x6 Wood-Stud & Brick - Window	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI (m ² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R19 Batt. Vinyl window frame	Exterior Film	33.33	0.03	0	0.053
		Brick Veneer	1.39	0.72	5	0.042
		25 mm (1") Air Gap	6.25	0.16	10	0.040
		Suface Mounted 2 part Masonry Ties	50.0	0.0000952	15	0.038
		at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	20	0.037
		Exterior Insulation	varies	varies	25	0.036
		Exterior Grade OSB or Plywood			30	0.036
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.035
		13 mm (1/2") Gypxum	6.25	0.16	40	0.034
		Interior Film	6.25	0.16	45	0.034
					50	0.034
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R22 Batt. Vinyl window frame	Exterior Film	33.33	0.03	0	0.049
		Brick Veneer	1.39	0.72	5	0.039
		25 mm (1") Air Gap	6.25	0.16	10	0.037
		Suface Mounted 2 part Masonry Ties	50.0	0.0000952	15	0.036
		at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	20	0.035
		Exterior Insulation	varies	varies	25	0.035
		Exterior Grade OSB or Plywood			30	0.034
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.034
		13 mm (1/2") Gypxum	6.25	0.16	40	0.033
		Interior Film	6.25	0.16	45	0.033
					50	0.033

2x6 Wood-Stud & Brick - Window	Wall Description	Wall Components Exterior to Interior	Conductance, k used in the model (W/m K)	Nominal Resistance RSI (m² K/W)	Exterior Insulation (R-value)	Linear Transmittance ψ (W/m K)
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R19 Batt. Aluminum Window Frame	Exterior Film	33.33	0.03	0	0.306
		Brick Veneer	1.39	0.72	5	0.245
		25 mm (1") Air Gap	6.25	0.16	10	0.195
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.169
			50.0	0.0000952	20	0.151
		Exterior Insulation	varies	varies	25	0.137
		Exterior Grade OSB or Plywood			30	0.127
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.118
		13 mm (1/2") Gypxum	6.25	0.16	40	0.110
		Interior Film	6.25	0.16	45	0.104
					50	0.098
	90 mm (4") Brick veneer Exterior Insulation 2x6 Wood Stud with R22 Batt. Aluminum Window Frame	Exterior Film	33.33	0.03	0	0.283
		Brick Veneer	1.39	0.72	5	0.226
		25 mm (1") Air Gap	6.25	0.16	10	0.183
		Suface Mounted 2 part Masonry Ties at 406mm x 610mm (16" x 24 ") o.c.	50.0	0.0000952	15	0.160
			50.0	0.0000952	20	0.144
		Exterior Insulation	varies	varies	25	0.131
		Exterior Grade OSB or Plywood			30	0.122
		2x6 Wood Stud with R19 Batt.	2.00	0.5	35	0.114
		13 mm (1/2") Gypxum	6.25	0.16	40	0.107
		Interior Film	6.25	0.16	45	0.101
					50	0.096