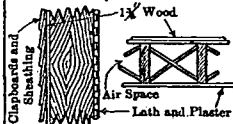
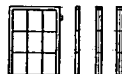


FOR ROOFING PURPOSES

Sheet iron	1.20
Corrugated iron	1.50
Slate on wooden framing	0.85
Slate on 1" boards	0.43
2" boards, paper, tar and gravel	0.26
Patent tar, gravel and paper	0.30
Tiling 1" thick or less	0.80
6" hollow tile covered with 2" concrete, tar and gravel	0.35
2" concrete with cinder fill	0.80
4" " " " "	0.60
6" " " " "	0.54

L. A. Harding submitted to the Society, in 1913, a paper entitled: Heat Losses by Transmission Through Various Building Materials (see Vol. 19 of the Transactions), from which the following table is reproduced. The data was calculated by the author and checked by experiments which reproduced the conditions existing in buildings.

Tests by John R. Allen (see Vol. 22, Transactions, p. 507) on the transmission through glass under weather conditions suggest a constant of 1.2 for single windows.

Construction		Thickness Inches	B.t.n. Transmitted per Square Ft. per Hour					
			Air Temperature Difference					
			1°	20°	40°	60°	70°	80°
	K = 1.84	9"	.390	7.8	15.6	23.4	27.3	31.2
	C = 0.	13"	.310	6.2	12.4	18.6	21.7	24.8
		18"	.344	4.9	9.8	14.7	17.1	19.6
	Plain Brick Wall	24"	.211	4.2	8.4	12.6	14.8	16.8
	K = 1.84	9"	.308	5.4	10.8	16.2	18.7	21.6
	C = 8 for brick	13"	.219	4.4	8.8	13.2	15.3	17.6
	C = 10 for mortar	18"	.191	3.8	7.6	11.4	13.4	15.2
	Brick Wall Furred and Plastered	24"	.160	3.2	6.4	9.6	11.2	12.8
 Wood Wall or Floor			.23	4.6	9.2	13.8	16.1	18.4
				K = .34 C = .83 For all surfaces C = 1.1 For wood C = 10. For mortar				
	Hollow Tile	6"	.40	8.0	16.0	24.0	28.0	32.0
		12"	.33	7.0	14.0	21.0	24.5	28.0
	Concrete	2"	.70	15.2	30.4	45.6	53.2	60.8
		3"	.63	12.6	25.2	37.8	44.1	50.4
		4"	.58	11.6	23.2	34.8	40.6	46.4
		6"	.51	10.2	20.4	30.6	35.7	40.8
			K = 1.84 C = 0.					
	Windows	Single Sash	1.03	20.6	41.2	61.8	72.1	82.4
		Double Sash	.52	10.4	20.8	31.2	36.4	41.6
		Triple Sash	.35	7.0	14.0	21.0	24.5	28.0
			K = R + A = .536 + 1.47 = 2.065					

•HEAT • TRANSMISSION • TABLES • FOR • WALLS •

HEAT • TRANSMISSION • TABLES • FOR • WALLS •											
Material	A	B	Material	A	B	Material	A	B	Material	A	B
Well laid Brick	4"	.60	Stone	12"	.48	Clapboards, Stud Plaster	4"	.44	Clapboards, Stud	12"	1.20
	6"	.40		15"	.43		6"	.52		14"	1.40
	12"	.32		18"	.40		16"	.44		16"	1.00
	16"	.26		20"	.38		20"	.33		18"	.86
	20"	.23		24"	.30		24"	.25			
Brick	4"	.60	Concrete	4"	.62	Sheathing Paper, Stud Plaster	4"	.31	Paper Board, Stud	4"	.44
	6"	.36		6"	.34		6"	.46		6"	.44
	12"	.30		12"	.28		12"	.38		12"	.44
	16"	.24		16"	.23		16"	.29		16"	.44
	20"	.21		20"	.21		20"	.27		20"	.44
Brick	4"	.60	Brick, Concrete	4"	.62	Sheathing Paper, Stud Plaster	4"	.31	Paper Board, Stud	4"	.44
	6"	.36		6"	.34		6"	.46		6"	.44
	12"	.30		12"	.28		12"	.38		12"	.44
	16"	.24		16"	.23		16"	.29		16"	.44
	20"	.21		20"	.21		20"	.27		20"	.44
Brick	4"	.60	Brick, Concrete	4"	.62	Sheathing Paper, Stud Plaster	4"	.31	Paper Board, Stud	4"	.44
	6"	.36		6"	.34		6"	.46		6"	.44
	12"	.30		12"	.28		12"	.38		12"	.44
	16"	.24		16"	.23		16"	.29		16"	.44
	20"	.21		20"	.21		20"	.27		20"	.44
Brick	4"	.60	Brick, Concrete	4"	.62	Sheathing Paper, Stud Plaster	4"	.31	Paper Board, Stud	4"	.44
	6"	.36		6"	.34		6"	.46		6"	.44
	12"	.30		12"	.28		12"	.38		12"	.44
	16"	.24		16"	.23		16"	.29		16"	.44
	20"	.21		20"	.21		20"	.27		20"	.44