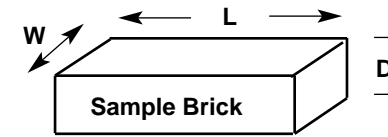


# Estimating Chart for Sauereisen Organic Mortars and Setting Beds

## INSTRUCTIONS

Combine the estimated pounds of material for mortar joints and back joints to approximate the total requirement per square foot of given masonry unit sizes. Brick and tile measurements are stated in inches. Also included for reference is the estimated number of masonry units per square foot. This data does not include wastage.



Sizes of common chemical resistant masonry units such as carbon brick or quarry tile.	L	8	8	8	8	8	8	8	8	8	8	9	9	9	9	6	6
	W	3-7/8	3-7/8	4	4	4	4	3-3/4	2-1/4	4-1/2	3-3/4	4-1/2	4-1/2	2-1/2	3	6	6
	D	1-3/16	1-3/8	1	1-3/16	1-3/8	1-1/2	2-1/4	3-3/4	3-3/4	4-1/2	2-1/2	3	4-1/2	4-1/2	1/2	3/4
Number of units per ft <sup>2</sup> (1/8 inch joints)		4.43	4.43	4.30	4.30	4.30	4.30	4.58	7.47	3.83	4.58	3.42	3.42	6.02	5.05	N.A.	N.A.
Number of units per ft <sup>2</sup> (1/4 inch joints)		4.23	4.23	4.11	4.11	4.11	4.11	4.36	6.98	3.67	4.36	3.28	3.28	5.66	4.79	3.69	3.69

Product	Mix Ratio	General Type	MORTAR JOINTS BY BRICKLAYING								Pounds per square foot with 1/8 inch side joints (ASTM C-395)							
No. 21	2.5:1	Furan, non-silica	0.55	0.64	0.46	0.54	0.62	0.68	1.07	2.53	1.58	2.13	1.04	1.22	2.74	2.40	- N.A.-	
No. 21C	2:1	Furan, carbon-filled	0.45	0.52	0.36	0.44	0.51	0.55	0.87	2.05	1.28	1.73	0.82	0.99	2.22	1.95	- N.A.-	
No. 25	unitized	Novolak epoxy	0.55	0.64	0.46	0.54	0.62	0.68	1.07	2.53	1.58	2.13	1.04	1.22	2.74	2.40	- N.A.-	
No. 400	unitized	Vinyl ester, silica	0.54	0.63	0.45	0.53	0.62	0.67	1.05	2.49	1.56	2.10	1.00	1.20	2.70	2.37	- N.A.-	
No. 400C	unitized	Vinyl ester, carbon	0.44	0.51	0.35	0.43	0.50	0.54	0.87	2.03	1.27	1.72	0.81	0.98	2.20	1.94	- N.A.-	

			MORTAR JOINTS BY TILESETTING								Pounds per square foot with 1/4 inch side joints (ASTM C-658)							
No. 21	2.25:1	Furan, non-silica	1.04	1.20	0.86	1.02	1.18	1.29	←	-N.A.-	→	0.39	0.58					
No. 21C	1.5:1	Furan, carbon-filled	0.85	0.98	0.70	0.83	0.96	1.05	←	-N.A.-	→	0.32	0.47					
No. 25	unitized	Novolak epoxy	1.04	1.20	0.86	1.02	1.18	1.29	←	-N.A.-	→	0.39	0.58					
No. 400	unitized	Vinyl ester, silica	1.04	1.20	0.86	1.02	1.18	1.29	←	-N.A.-	→	0.39	0.58					
No. 400C	unitized	Vinyl ester, carbon	0.84	0.97	0.69	0.82	0.95	1.04	←	-N.A.-	→	0.31	0.46					

			MORTAR JOINTS BY HOTMELT POUR								Pounds per square foot with 1/4 inch side joints (ASTM C-287)							
No. 600	N.A.	Sulfur, silica-filled	1.20	1.39	1.00	1.18	1.37	1.50	2.33	5.43	3.47	4.65	2.23	2.67	5.91	5.21	-N.A.-	
No. 610	N.A.	Sulfur, carbon-filled	1.14	1.32	0.94	1.12	1.30	1.41	2.20	5.14	3.27	4.40	2.10	2.52	5.59	4.94	-N.A.-	

			SETTING BEDS/BACK JOINTS								Pounds per square foot with 1/8 inch bed joints (ASTM C-723)							
No. 21	2.5:1	Furan, non-silica	←	1.26	→													
No. 21C	2:1	Furan, carbon-filled	←	1.02	→													
No. 25	unitized	Novolak epoxy	←	1.26	→													
No. 26	unitized	Epoxy	←	0.96	→													
No. 400	unitized	Vinyl ester, silica	←	1.25	→													
No. 400C	unitized	Vinyl ester, carbon	←	1.01	→													

			SETTING BEDS/BACK JOINTS BY HOTMELT POUR								Pounds per square foot with 1/4 inch bed joints							
No. 600	N.A.	Sulfur, silica-filled	←	2.85	→													
No. 610	N.A.	Sulfur, carbon-filled	←	2.69	→													

## Estimated Quantities of Sauereisen Inorganic Mortars

### Required Pounds of Mortar per 1,000 Brick Using 1/8 Inch Joints

Brick Sizes (inches)			Brick per ft <sup>2</sup>	With Bed Joint		Without Bed Joint	
Length	Width	Thickness		No. 33	No. 65	No. 33	No. 65
8	4	1-3/8	4.30	471	447	157	148
8	1-3/8	4	11.82	471	447	357	338
8	3-3/4	2-1/4	4.58	547	518	252	371
8	2-1/4	3-3/4	7.47	547	518	366	346
8	4-1/2	3-3/4	3.83	797	757	445	421
8	3-3/4	4-1/2	4.58	797	757	503	475
9	4-1/2	2-1/2	3.42	715	680	320	303
9	2-1/2	4-1/2	6.02	715	680	491	466
9	4-1/2	3	3.42	780	740	384	363
9	3	4-1/2	5.05	780	740	513	485
9	4-1/2	4	3.42	908	862	513	485
9	4	4-1/2	3.82	908	862	555	526
Density, pounds/ft <sup>3</sup>				130	123	130	123
Mix Ratio (Parts by Weight)				5.5:1 Powder to Water	7:3 Powder to Liquid	5.5:1 Powder to Water	7:3 Powder to Liquid