

Passed 1/30 in. mesh	per cent
Standard sand	0.0
Thames sand	16.4
Pit sand	30.5
Ground brick	48.6
Charlton fine sand	73.9

Passed 1/75 in. mesh	
Standard sand	0.0
Thames sand	3.6
Pit sand	10.2
Ground brick	37.0
Charlton fine sand	60.2

On tabulating the tests made with lime and aggregate in the ratios 1:2 and 1:3, for example, we have the following series:-

COMPOSITION AND STRENGTH OF MORTARS				
TABLE IV				
Results of two years tests				
PROPORTION OF LIME SAND	1 to 2		1 to 3	
	tensile	crushing	tensile	crushing
<i>Without clay</i>				
White chalk & standard sand	43	218	53	240
White chalk & fine Charlton sand	53	300	55	260
White chalk & pit sand	73	247	50	253
White chalk & Thames sand	100	297	68	202
White chalk & ground brick	60	213	40	312
Dorking greystone & Standard sand	97	257	103	228
Dorking greystone & fine Charlton sand	50	143	35	140
Dorking greystone & Pit sand	62	333	75	200
Dorking greystone & Thames sand	88	243	58	228
Dorking greystone & ground brick	38	123	27	162
Blue lias & standard sand	58	538	38	188
Blue lias & fine Charlton sand	40	257	26	156
Blue lias & pit sand	75	605	77	650
Blue lias & Thames sand	80	785	102	507
Blue lias & ground brick	133	910	87	657
<i>With 5% clay</i>				
White chalk & standard sand	-	-	50	230
White chalk & fine Charlton sand	-	-	35	70
White chalk & pit sand	-	-	57	163
Dorking greystone & standard sand	-	-	48	177
Dorking greystone & fine Charlton sand	-	-	20	82
Dorking greystone & Pit sand	-	-	67	140
Blue lias & standard sand	-	-	168	876
Blue lias & fine Charlton sand	-	-	34	79
Blue lias & pit sand	-	-	121	550