



THE LIME CENTRE

The Lime Centre Ltd, Hazeley Road, Morestead, Winchester, Hampshire SO21 1LZ
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Mortar Disaggregation Report

DATE

01/05/26

SITE

Boundary Wall

CLIENT

Stephen Griffiths

LOCATION / FUNCTION IN BUILDING

Ref – Boundary Wall

1.0 SUMMARY

The sample is a medium strength, pale brown lime mortar.

The sample is made up of approximately 1-part lime binder and other calcareous material such as chalk to 2.60 parts aggregate by weight. The aggregate is made up of brown sand graded from 0 to 3mm. The aggregate makes up 72% of the sample by weight.

Compatible Repair site blended:

A compatible repair mortar can be made with a volumetric mix of 1-part NHL2 or NHL3.5 to 2 ½ parts well graded sand from 0 to 3mm sand. The Morestead 0 to 3mm sand available from The Lime Centre produces a pale-yellow mortar which is a lighter colour than the sample. We are not aware of any sand available today that gives the same colour as the sample when mixed with lime.

Compatible repair preblended:

The pigmented **Natural Mortar NHL3.5 / RG 0-2mm Colour: Tilgate (data sheet attached)** is a near match in colour.

The pigmented 'Natural Mortar' is made with NHL3.5 but not NHL2. The NHL3.5 has a higher compressive strength than the sample but is still compatible and breathable and is more durable in exposed conditions (biscuit sample sent by post). Please telephone if you wish to discuss this in more detail.

2.0 FINDINGS

2.1 DISAGGREGATION ANALYSIS



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The sample was separated by dissolution in hydrochloric acid, and the relative proportion of aggregate was determined. The aggregate makes up 72% by weight.

2.2 DISAGGREGATION SAMPLE

A. DRY WEIGHT OF SAMPLE:	20.00g
B. DRY WEIGHT OF SAND/AGGREGATE:	14.01g
C. DRY WEIGHT OF LIME AND CALCAREOUS MATERIAL (less 10% CO ₂):	5.39g
D. PERCENTAGE SAND/AGGREGATE BY WEIGHT	72%
E. PERCENTAGE LIME AND CALCAREOUS MATERIAL BY WEIGHT:	28%
F. RATIO LIME AND CALCAREOUS MATERIAL TO SAND/AGGREGATE BY WEIGHT:	1 : 2.60

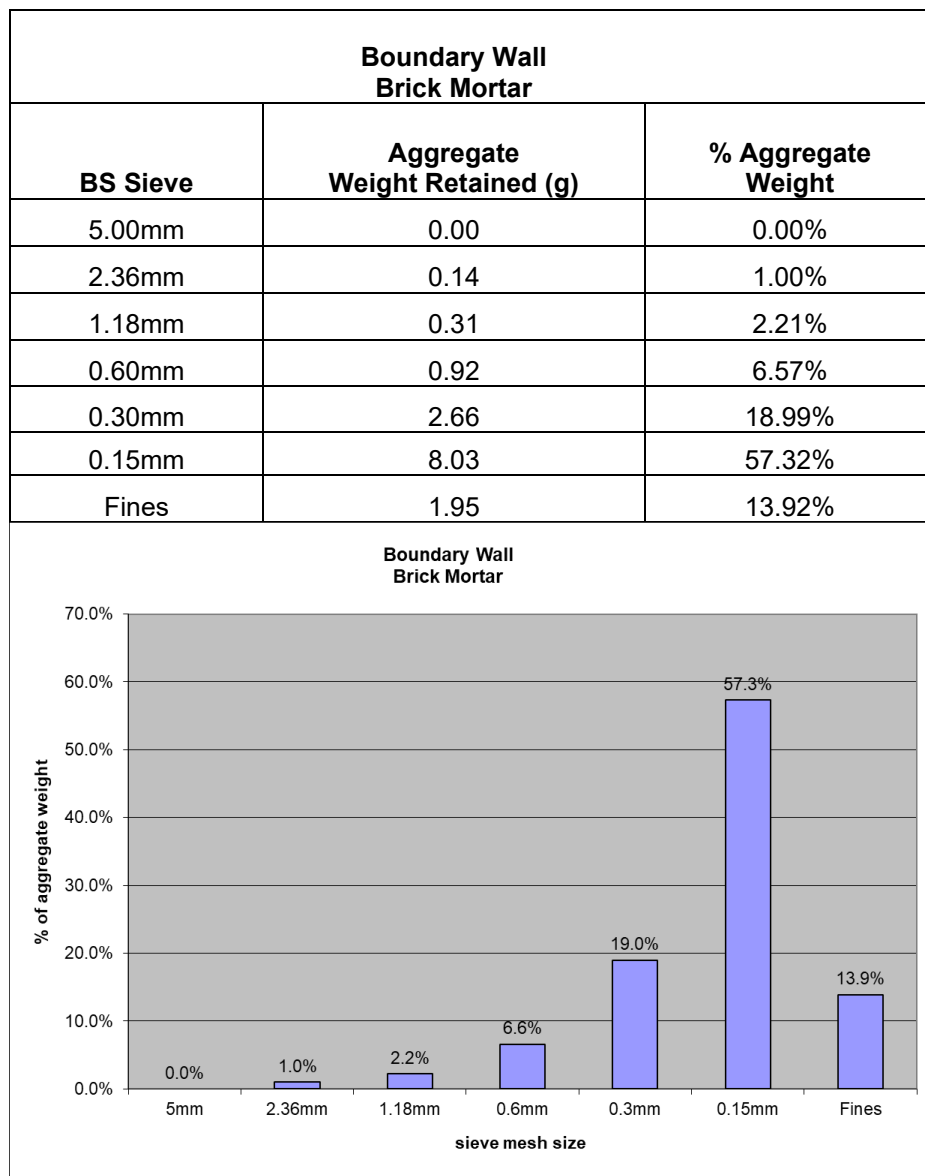
2.3 THE AGGREGATE GRANULOMETRY AND GRADING

The aggregate is made up of sand graded from 0 to 3mm.



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Mortar and Render sample biscuits

Mortar or render sample biscuits are a guide to colour. Finishes vary by technique so sample panels made on site are recommended to give a fair representation with your operative's finish.

Mortar biscuits are finished by rubbing off the surface as it stiffens. If mortar is finished smooth on site without the fatty surface being rubbed or brushed off then the colour will appear lighter.

Render biscuits are finished with a light dressing with a sponge float.



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Note

The information given above relate to the sample. A repair specification should take into account the original mortar along with site conditions, exposure, function of mortar, seasonal working, building condition etc.