

Table 1 Damage Categories after Burland (1995)

Category of damage	Limiting tensile strain [%]	Normal degree of severity	Description of typical damage (Ease of repair is printed <i>italic</i>) Note: Crack width is only one factor in assessing category of damage and should not be used on its own as a direct measure of it
0	0-0.05	Negligible	Hairline cracks less than about 0.1 mm
1	0.05-0.075	Very slight	<i>Fine cracks which are easily treated during normal decoration.</i> Damage generally restricted to internal wall finishes. Close inspection may reveal some cracks in external brickworks or masonry. Typical crack widths up to 1mm.
2	0.075-0.15	Slight	<i>Cracks easily filled. Re-decoration probably required. Recurrent cracks can be masked by suitable linings.</i> Cracks may be visible externally and <i>some repointing may be required to ensure weathertightness.</i> Doors and windows may stick slightly. Typical crack width up to 5 mm.
3	0.15-0.3	Moderate ¹	<i>The cracks require some opening up and can be patched by mason. Repointing of external brickwork and possibly a small amount of brickwork to be replaced.</i> Doors and windows sticking. Service pipes may fracture. Weathertightness often impaired. Typical crack widths are 5 to 15 mm or several up to 3 mm.
4	>0.3	Severe	<i>Extensive repair work involving breaking-out and replacing sections of walls, especially over doors and windows.</i> Windows and door frames distorted, floor sloping noticeably ² . Walls leaning ² or bulging noticeably, some loss of bearing in beams. Service pipes disrupted. Typical crack widths are 15 to 25 mm but also depends on the number of cracks.
5		Very severe	<i>This requires a major repair job involving partial or complete rebuilding.</i> Beams lose bearing, walls lean badly and require shoring. Windows broken with distortion. Danger of instability. Typical crack widths are greater than 25 mm but depends on the number of cracks.

¹ Note: Boscardin & Cording (1989) describe the damage corresponding to the tensile strain in the range 0.015 - 0.3% as 'moderate to severe'. However, none of the cases quoted by them exhibit severe damage for this range of strains. There is therefore no evidence to suggest that tensile strains up to 0.3% will result in severe damage.

² Note: Local deviation of slope, from the horizontal or vertical, of more than 1/100 will normally be clearly visible. Overall deviations in excess of 1/150 are undesirable.

New College Parade-PL Damage Categories after Burland

1 message

"New College Parade 1235"

Tue, Jun 24, 2014 at 10:36

<newcollegeparade1235@davysmitharchitects.co.uk>

AM

To: Eimear.Heavey@camden.gov.uk

Cc: Bethany.Arbery@camden.gov.uk

Bcc: New College Parade 1235 <newcollegeparade1235@davysmitharchitects.co.uk>, Jamie Arva

<jamiea@koopmans.co.uk>

Dear Eimear

New College Parade - Damage Categories after Burland

As requested, would you please find attached the 'Damage Categories after Burland' and below email from Conisbee for your information.

Regards

Peter Smith

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peter smith

Stephen Davy Peter Smith Architects Ltd

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From: **Helen Hawker** <helen.hawker@conisbee.co.uk>

Date: Tue, Jun 24, 2014 at 10:18 AM

Subject: 130607 - 9-12 New College Parade, Finchley Road, NW3 5EP

To: "newcollegeparade1235@davysmitharchitects.co.uk" <newcollegeparade1235@davysmitharchitects.co.uk>

Cc: Dave Richards <Dave.Richards@conisbee.co.uk>, Helen Hawker <helen.hawker@conisbee.co.uk>, John Segrott <john.segrott@conisbee.co.uk>

Dear Lucy,

Further to your feedback from Camden and our 'phone conversation, please find attached the 'Damage Categories after Burland'.

We confirm that the proposed basement works at Nos 9-12 New College Parade, if carried out by a competent and experienced contractor in accordance to the detailed design drawings and to all relevant British and/or European Standards, should impact no more than a category 0-1 of the attached table.

Kind regards,

Helen Hawker

Principal Engineer

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