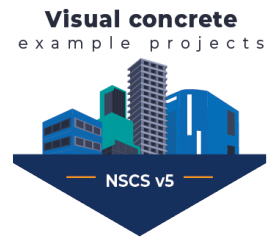


# THE ANGEL BUILDING

## Visual Concrete Example Project Sheet



<b>Project Address:</b>	The Angel Building, 407 St John Street, London, EC1V 4AB
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<b>Client:</b>	Derwent London	<b>Date of completion:</b>	2010
<b>Architect:</b>	AHMM	<b>Building type:</b>	Office
<b>Structural Engineer:</b>	AKT II	<b>Form of Specification:</b>	NSCS V4
<b>Project Manager:</b>	Buro 4	<b>As-built surface finish classification in accordance with NSCS 5</b>	Special
<b>Quantity Surveyor:</b>	Davis Langdon	<b>Construction type:</b>	Cast in-situ
<b>M&amp;E Engineer:</b>	Norman Disney & Young		
<b>Principal Contractor:</b>	BAM Construction		
<b>Concrete Contractor:</b>	Getjar		
<b>Concrete Producer:</b>	Hanson		

<b>Summary Project Introduction:</b>	The Angel Building retained and extended an existing 1980s concrete framed building. The new extensions provide a new external façade and form a large internal atrium. Throughout the building the new exposed concrete is a very high quality Special finish.
<b>Visual concrete overview:</b>	<p>The visual concrete is cast in situ. The concrete mix utilised 35% Fly ash with 10% limestone filler.</p> <p>The Visual concrete elements include:</p> <ul style="list-style-type: none"> <li>• Flat slabs</li> <li>• Core walls</li> <li>• Square columns</li> </ul>
<b>Additional project specific features / notes:</b>	Horizontal shadow gap at day work joints in walls, aligned with floor plates.
<b>Further reading:</b>	Concrete Quarterly Magazine Spring 2011
<b>Visitor Access:</b>	The entrance foyer and atrium are open to the public. Ideally phone in advance if large party.

## Further detailed information on specific finishes:

<b>Finish 01</b>	
<b>Location: Internal soffits, walls and structure in atrium</b>	
<b>NSCS 5 surface finish classification:</b>	Special
<b>Construction method:</b>	Cast In Situ
<b>Placement method:</b>	Self compacting
<b>Concrete Mix and Materials:</b>	
Cement content	Unknown
Water / Cement Ratio	Unknown
Cement type / addition %	34% fly ash & 10% limestone filler
Strength	Unknown
Admixtures	Unknown
Other Additions	Unknown
Release agent	Unknown
Sealant	None
<b>Visual criteria</b>	
Colour	Natural Grey
Blemishes	Unknown
Extent of blowholes	Unknown
Formwork	Double MDO boarded Peri Vario Formwork system
Layout & joints	Bespoke panel sizes. Mixture of flush and rebated joints
Tie bolts	Recessed plugged tie bolt holes
Flatness / Surface regularity	Smooth
Surface texture	Smooth
Surface reflectance	Unknown
Post finishing	Specification was for no rubbing down or post finishing to be carried out
<b>Additional information</b>	
Extensive sample panels and mock-ups produced before final mix and detailing agreed. Two stage tender enabled careful selection of concrete contractor.	

**Important Note:** The information provided in these project sheets have been gathered in discussion with project teams and is to the best of The Concrete Centre's knowledge. All advice or information from MPA The Concrete Centre is intended only for use in the UK by those who will evaluate the significance and limitations of its contents and take responsibility for its use and application. No liability (including that for negligence) for any loss resulting from such advice or information is accepted by Mineral Products Association or its subcontractors, suppliers or advisors. Readers should note that any information from MPA The Concrete Centre is subject to revision from time to time and should therefore ensure that they are in possession of the latest version of this document, which is available from [www.concretecentre.com](http://www.concretecentre.com).