



<b>Project Address:</b>	The Salvation Army Territorial Headquarters, 1 Champion Park, London SE5 8FJ
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<b>Client:</b>	The Salvation Army	<b>Date of completion:</b>	2023
<b>Architect:</b>	TateHindle	<b>Building type:</b>	Headquarters
<b>Structural Engineer:</b>	Davies Maguire	<b>Form of Specification:</b>	NBS
<b>Project Manager:</b>	Randall Simmonds	<b>As-built surface finish classification in accordance with NSCS 5</b>	Special**
<b>Quantity Surveyor:</b>	Randall Simmonds	<b>Construction type:</b>	Cast in-situ
<b>M&amp;E Engineer:</b>	MTT	** Design specification was for Plain, but as-built finish equivalent to Special due to evolved requirements on site including mock ups and post finishing	
<b>Principal Contractor:</b>	McLaren		
<b>Concrete Contractor:</b>	Mitchellson		
<b>Concrete Producer:</b>	Cemex		

<b>Summary Project Introduction:</b>	Sitting adjacent to The Salvation Army's Grade-II listed training college in Denmark Hill, this new territorial headquarters has been designed to a 120 year design life and features a cast in situ visual concrete frame throughout. The project prioritised quality, longevity and cost efficiency. The building comprises six floors of mainly open plan office accommodation, wrapped around a central atrium. The concrete frame utilises materially efficient ribbed slabs to achieve 9m spans. GGBS was used in the concrete mix, lowering the embodied carbon of the concrete and achieving a light grey finish.
<b>Visual concrete overview:</b>	<p>This is a newbuild cast in situ concrete frame. The visual concrete elements include:</p> <ul style="list-style-type: none"> <li>• Ribbed slabs</li> <li>• Flat slabs</li> <li>• Square columns</li> <li>• Core walls</li> <li>• Stairs</li> </ul>
<b>Additional project specific features / notes :</b>	The design specification was for a Plain surface finish, but the as-built surface finish is equivalent to Special due to evolved requirements on site including mock ups and post finishing.
<b>Further reading:</b>	Concrete Quarterly Issue 285 Winter 2023, RIBA Journal May 2024 Architects Journal April 2024, Architecture Today
<b>Visitor Access:</b>	Café and headquarters reception publicly accessible with visual concrete visible. Atrium and upper floors private and not open to the public.

## Further detailed information on specific finishes:

**Finish 01****Location: Reception soffit & bridge, Atrium slab edges & feature staircase**

NSCS 5 surface finish classification:	Special**
Construction method:	Cast in-situ
Placement method:	Pumped

Concrete Mix and Materials:	
Cement content	400kg / m <sup>3</sup>
Water / Cement Ratio	0.43
Cement type / addition %	CIIIA+SR 50% GGBS
Strength	C35/45
Admixtures	Water reducing admixture
Other Additions	None
Release agent	Unknown
Sealant	Unknown

Visual criteria	
Colour	Light grey
Blemishes	Unknown
Extent of blowholes	Unknown
Formwork	Unknown
Layout & joints	Unknown
Tie bolts	N/A
Flatness / Surface regularity	Unknown
Surface texture	Smooth
Surface reflectance	Unknown
Post finishing	Minimal post finishing carried out, samples provided by contractor for colour matching prior to post finishing. <i>Fosroc Renderroc</i> used in some locations.

Additional information	
None	

**Finish 02****Location: Reception lift core and Atrium columns**

NSCS 5 surface finish classification:	Special**
Construction method:	Cast in-situ
Placement method:	Not pumped

Concrete Mix and Materials:	
Cement content	420kg / m <sup>3</sup>
Water / Cement Ratio	0.39

## Visual Concrete Example Project Sheet

Cement type / addition %	CIIIA+SR 50% GGBS
Strength	C40/50
Admixtures	Superplasticiser
Other Additions	None
Release agent	Unknown
Sealant	Unknown

Visual criteria	
Colour	Light grey
Blemishes	Unknown
Extent of blowholes	Unknown
Formwork	Unknown
Layout & joints	Unknown
Tie bolts	Filled
Flatness / Surface regularity	Unknown
Surface texture	Smooth
Surface reflectance	Unknown
Post finishing	Minimal post finishing carried out, samples provided by contractor for colour matching prior to post finishing. <i>Fosroc Renderroc</i> used in some locations.

Additional information
None

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