

40 LEADENHALL STREET,
LONDON,

Proposed wind mitigation sculpture

Initial concepts

April 2023

Work in Progress



Lee
Simmons.®

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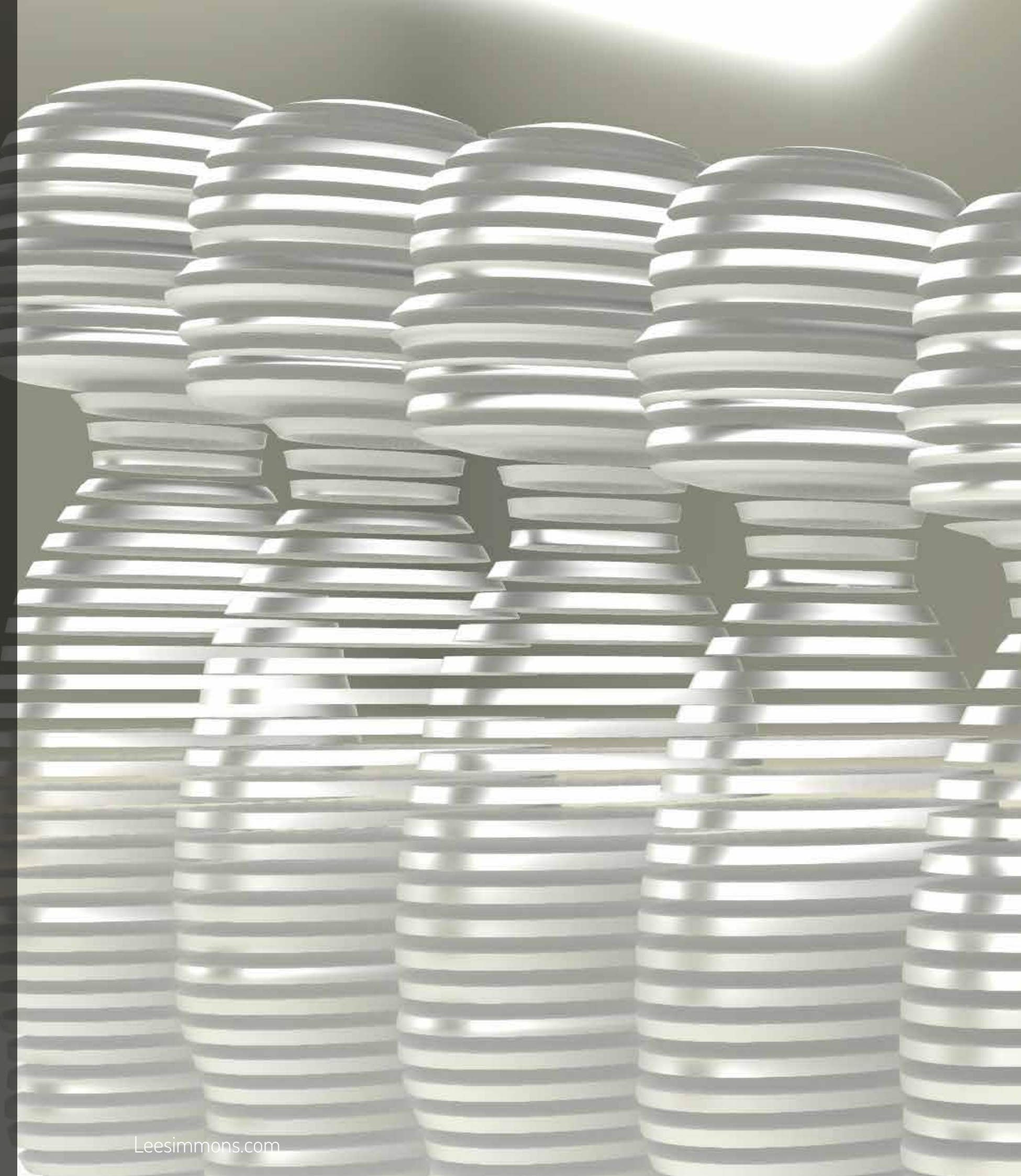
1.0 THE COMMISSION

1.1 BACKGROUND

The development was granted planning permission in 2014, with mitigation measures comprising two trees on Leadenhall Street and a screen on Billiter Street informed by wind tunnel tests undertaken in 2013. These mitigation measures were secured by a planning condition which states that 'no construction work shall take place until detailed design of all wind mitigation measures has been submitted to and approved in writing by the Local Planning Authority'. Please refer Arup report "Details to Discharge Planning Condition 8, Planning Permission Ref. 13/01004/FULEIA 13th December 2019" for further details.

1.2 BRIEF

The developer of the project Nuveen Real Estate have engaged with Artist Lee Simmons to undertake initial concepts for a site-specific art installation that looks to take the briefing and findings of the Arup report noted above that recommends how wind migration and pedestrian comfort could be achieved on Bilter Street via a screen. Taking this initial design criteria as the bases for how the Artist will ensure that any artistic proposal will look to meet the wind mitigation recommendations outline, in conjunction to ensure the footprint of the sculpture remains within the red line demise of the development and take into consideration the hostile vehicle mitigation bollards that are located with the adjacent area. In conjunction to the building facade being able to be free and clear for cleaning and maintenance and allow clear access for the Local Authority to also maintain the street light that is situated above the area of the proposed wind mitigating Art installation.



2.0 SITE & CONTEXT

40 Leadenhall Street The development between Leadenhall Street and Fenchurch Street, has been developed to form a range of buildings from 14 to 34 storeys and retaining the Grade II listed building of 19-21 Billiter Street.

The proposed wind mitigating art installation will be suited on the corner of Billiter Street sitting on the corner where Billiter Street meets Leadenhall Street. The ground floor of 40 Leadenhall Street comprises of a wall of glass on the lower ground floor and refined stainless steel mullions that offers a clean back drop and canvass to give space for the proposed wind mitigating art installation that can take on a more human scale in connecting with the street scape and bases by.

The scale needs to be closely considered to be in keeping with some of the key visual markers of the facades gridlines however strike a balance with retaining a human scale.

3.0 CONCEPT

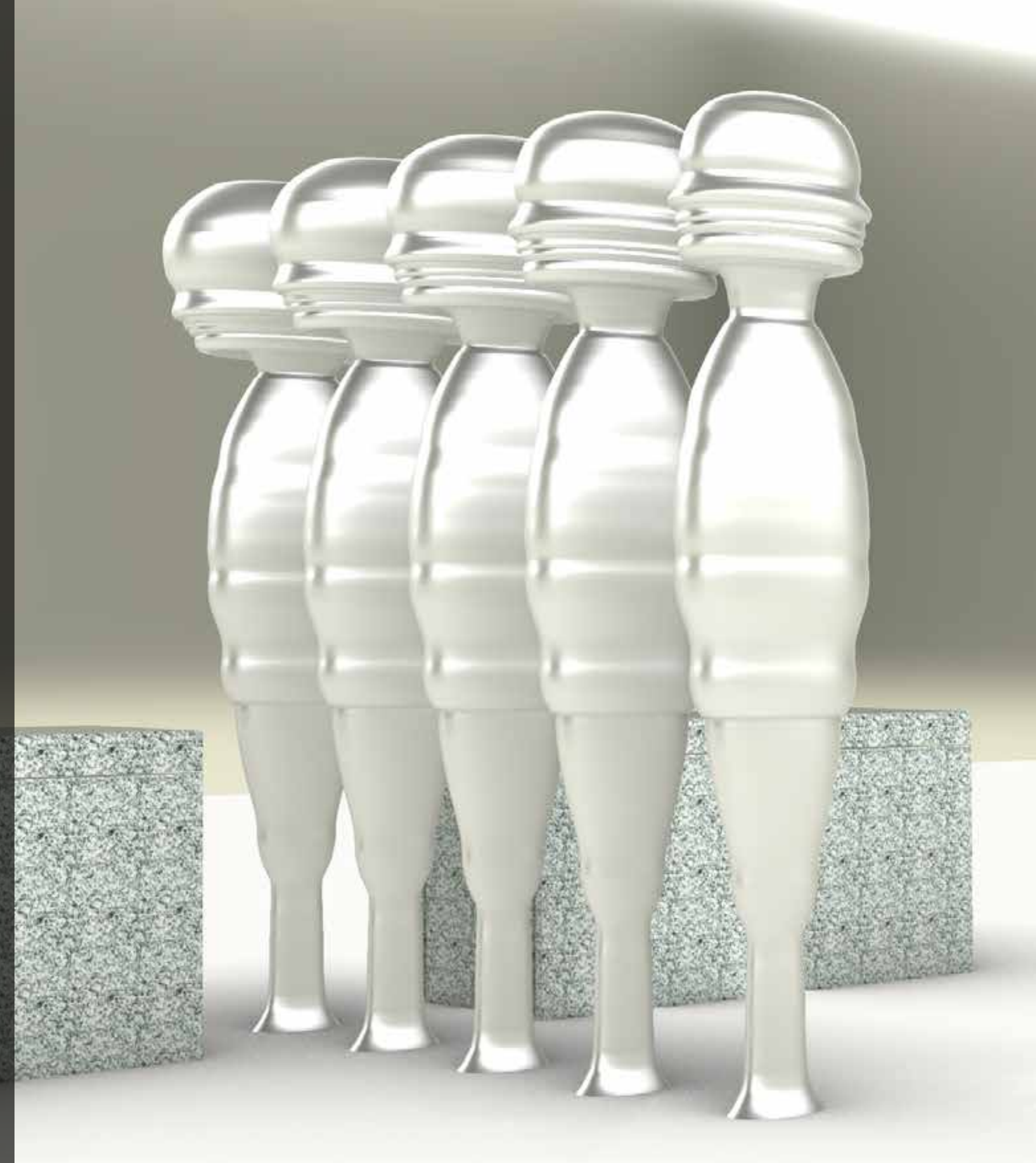
The initial concept looks to take the inhabitants of the city and their movements and daily activities at a street scape level as the bases for its initial starting point. Capturing the movement of the human form in motion on the move, coupled with the effects of taking the study of fluid dynamics to interact with the solid forms and sculpt, elongate, and remove sections of the forms. The initial forms and studies have evolved through a series of long exposure images and still studio photography that have been digitally manipulated with the interaction of fluid dynamics.

3.1 MATERIALS

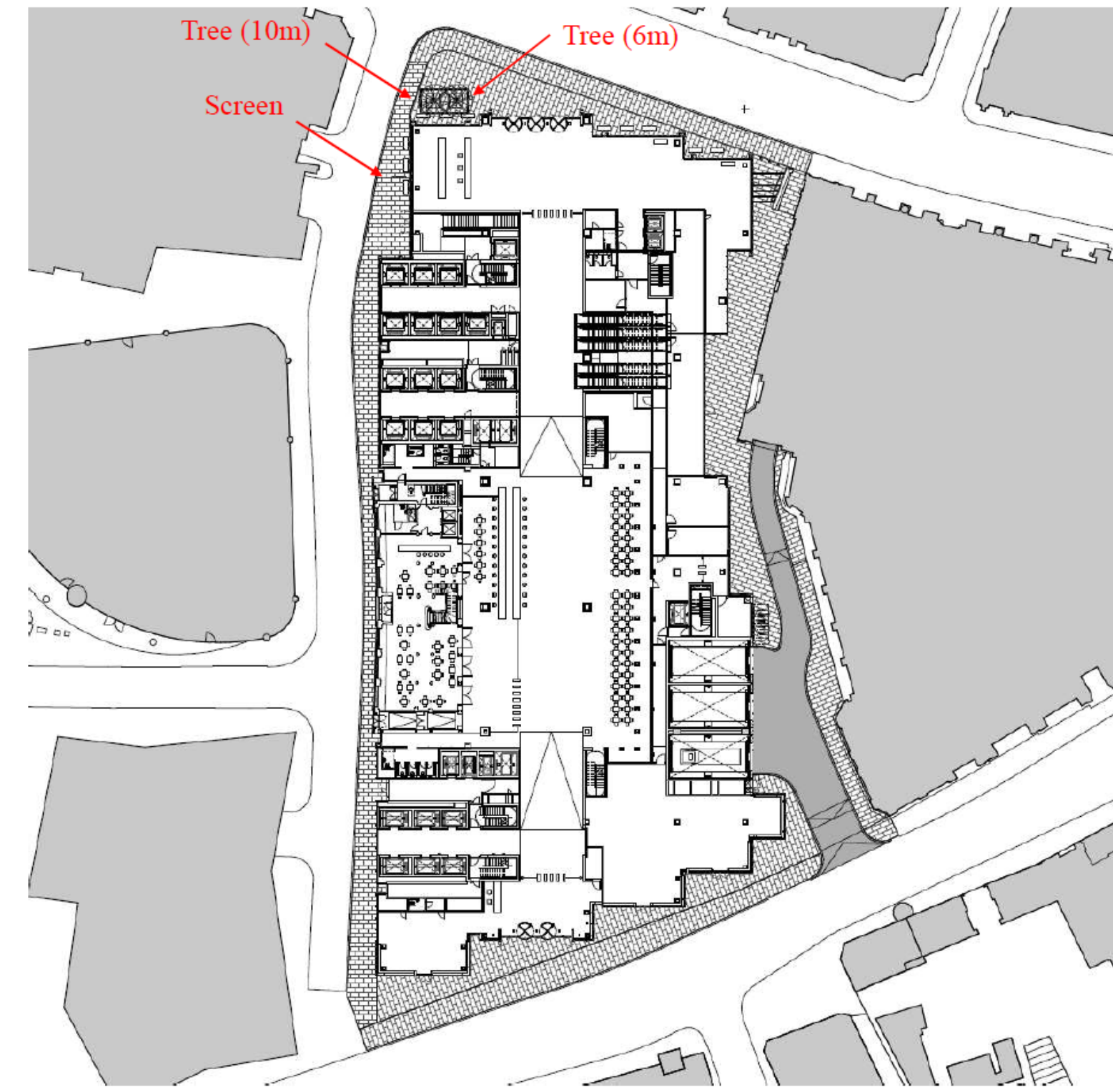
The proposed materials for the sculptural forms are initially centred around looking at cast stainless steel or aluminium with a shot blasted finish. Material samples will be undertaken though design development.

3.2 SCALE

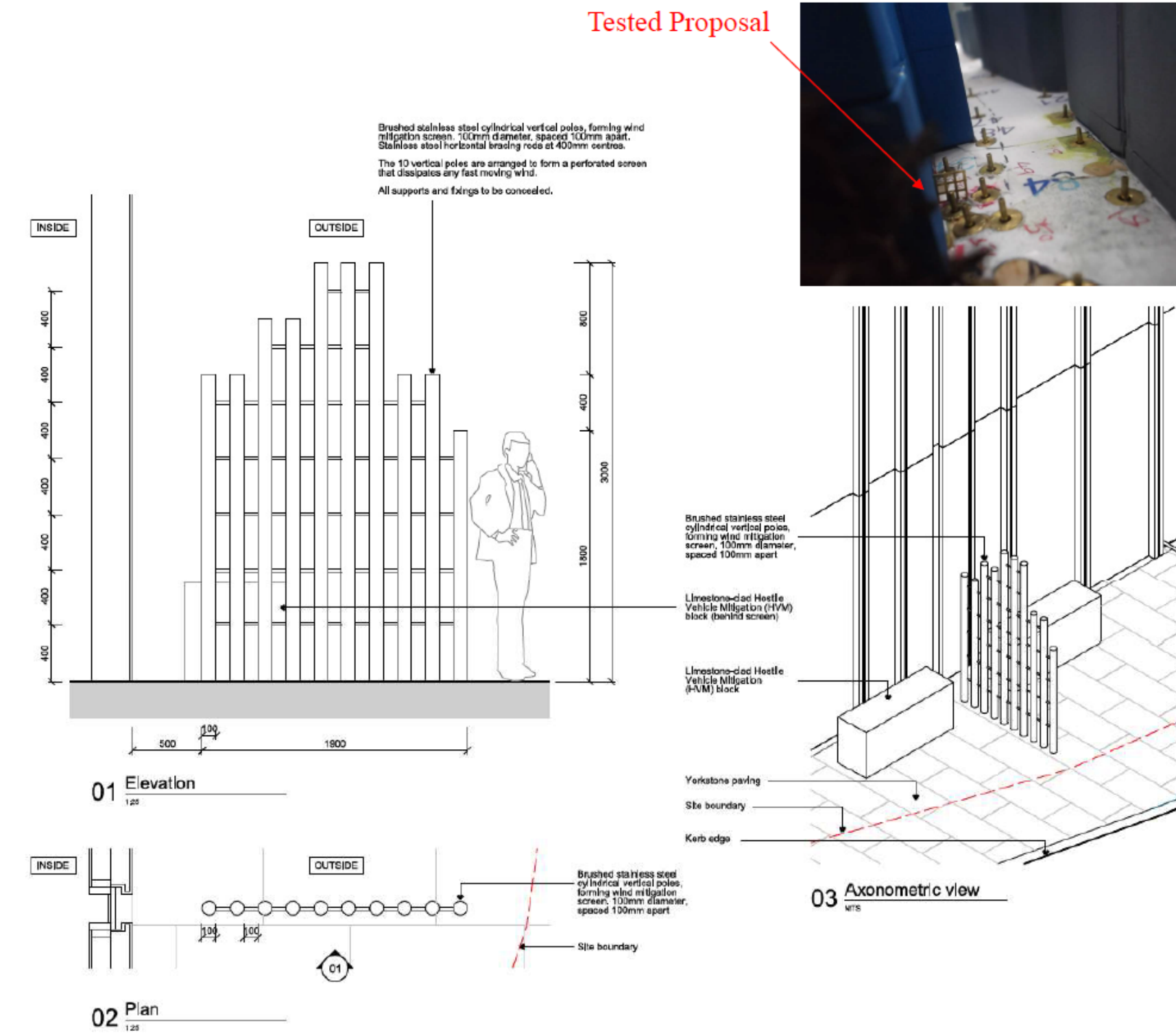
There are currently several working designs ranging from 1.8m > 2.6m in height



Ground Floor Plan View. Position of Mitigation



Detailed Screen Proposals



A screen of 2m x 2m (50% solid) was wind tunnel tested and presented in the planning application.

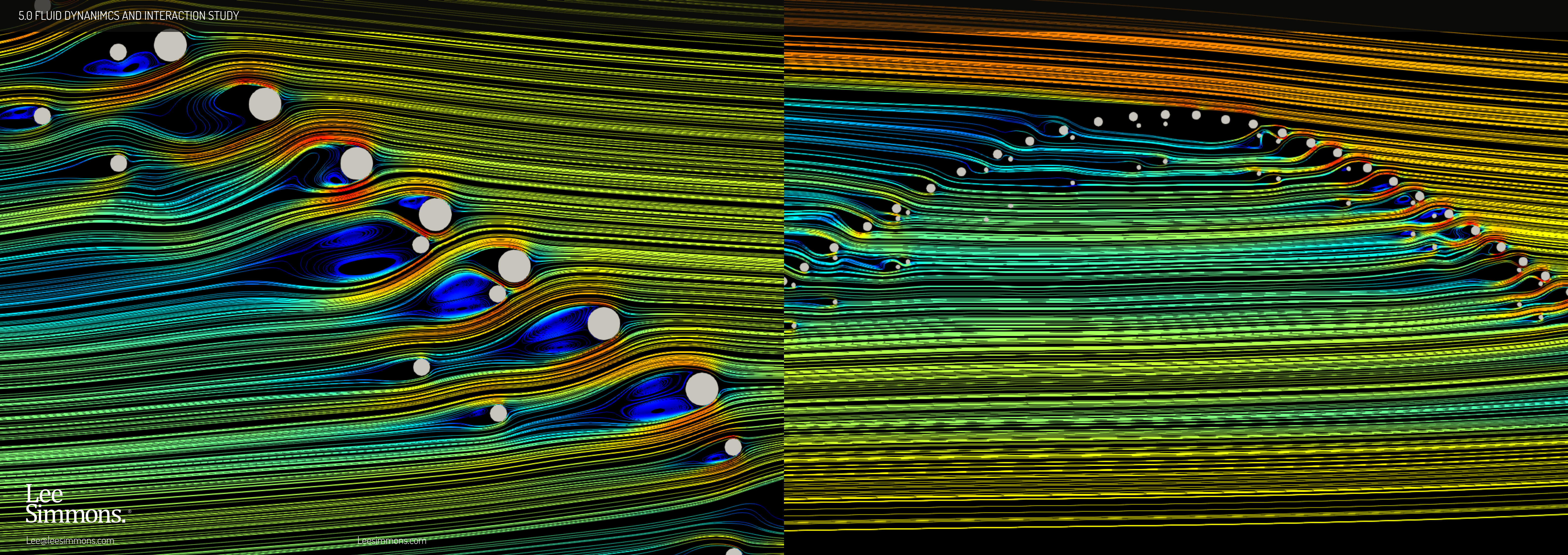
Subsequent testing in 2015 demonstrated that ground level windiness within Billiter Street is not sensitive to the precise shape of the screen ('square' vs 'stepped').

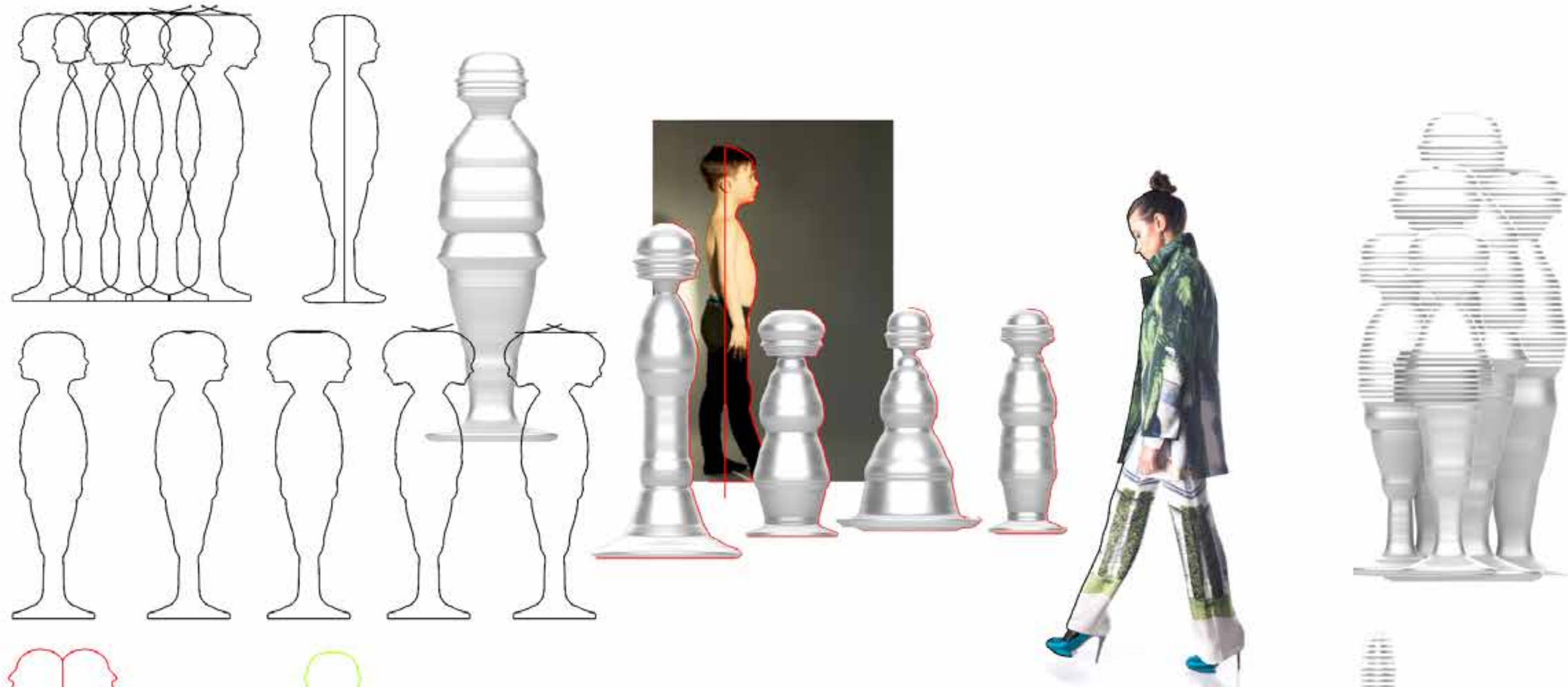
The current proposal is that the screen will be made of equally spaced elements with circular cross section, with maximum height of 3m. The horizontal spacing between circular elements is 0.1m. The overall width of the screen is 1.9m.

Increasing the height to 3m and using a stepped configuration is not considered to have a detrimental effect on windiness within Billiter Street.

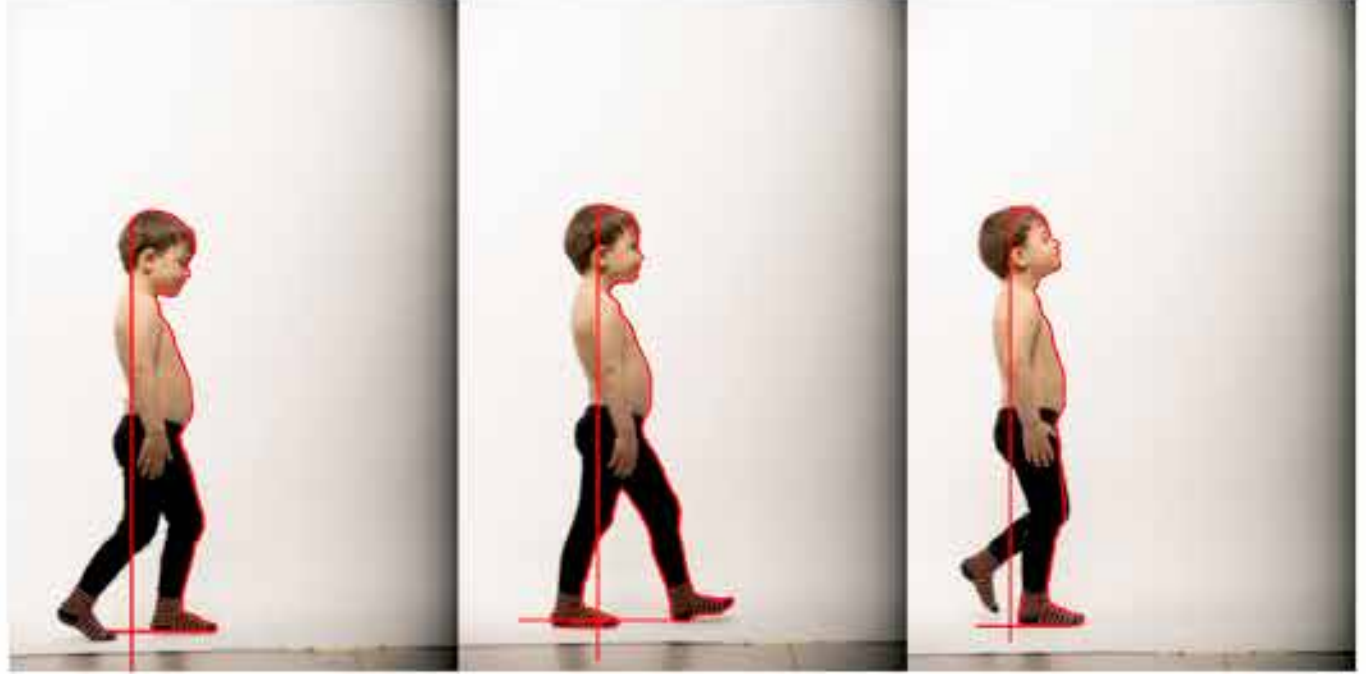
The vertical elements are tied together (to mitigate possibility of vibration).





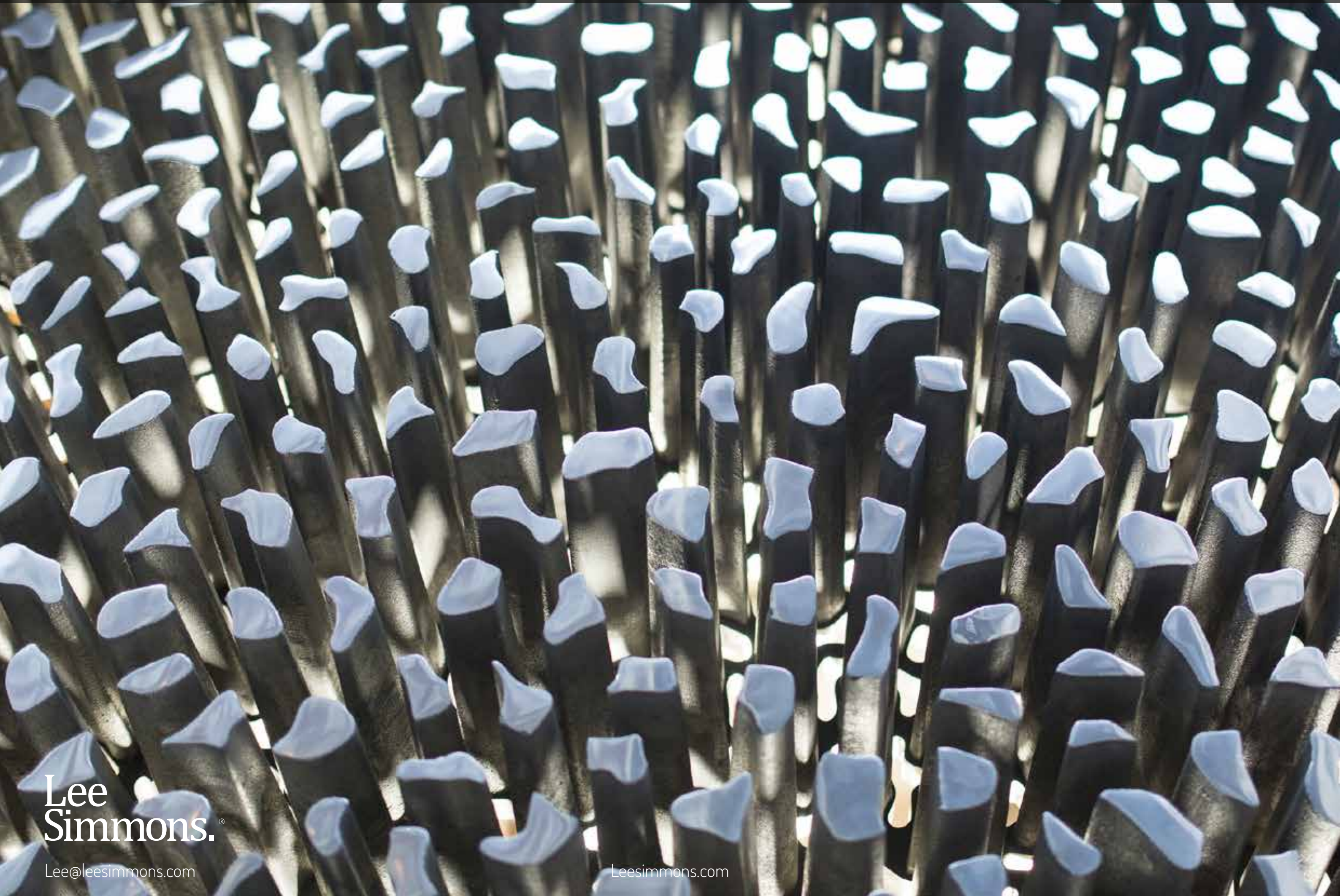


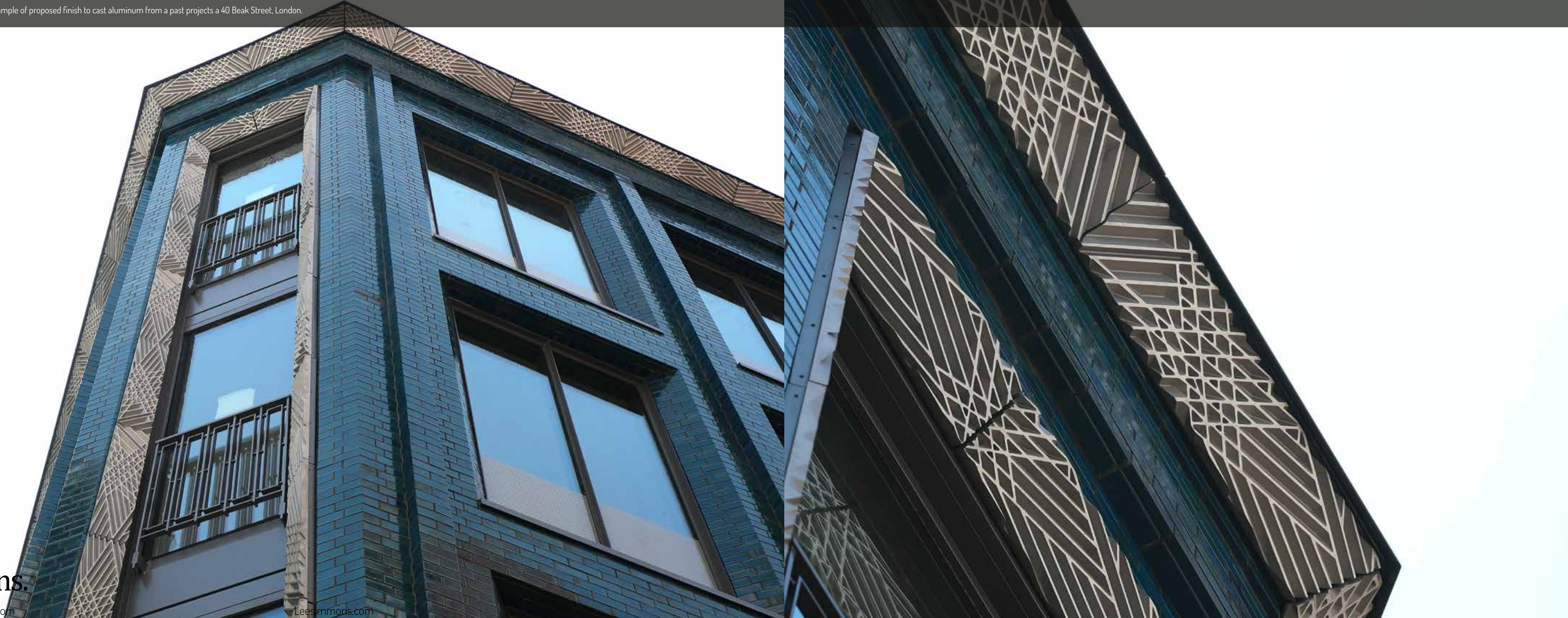
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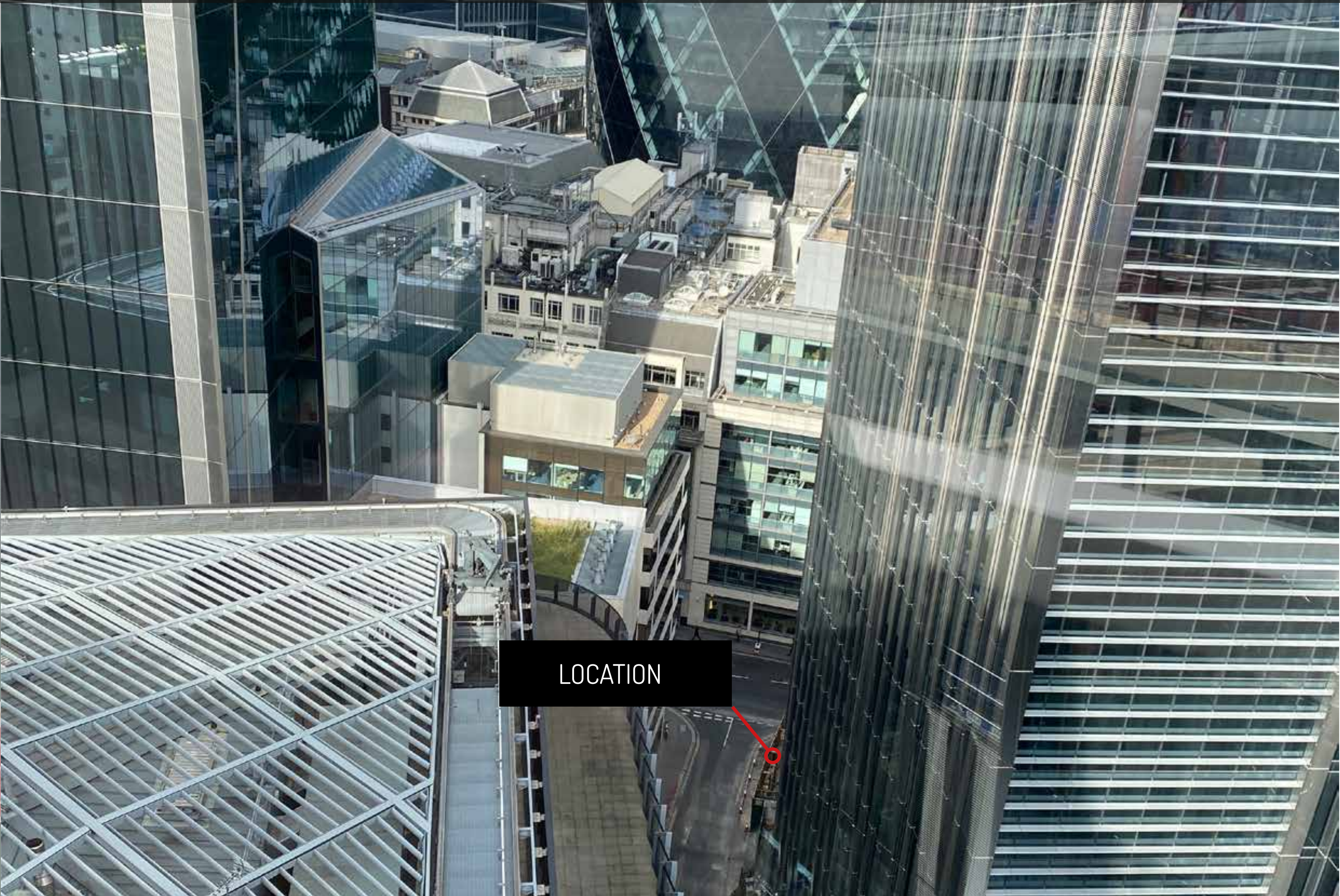




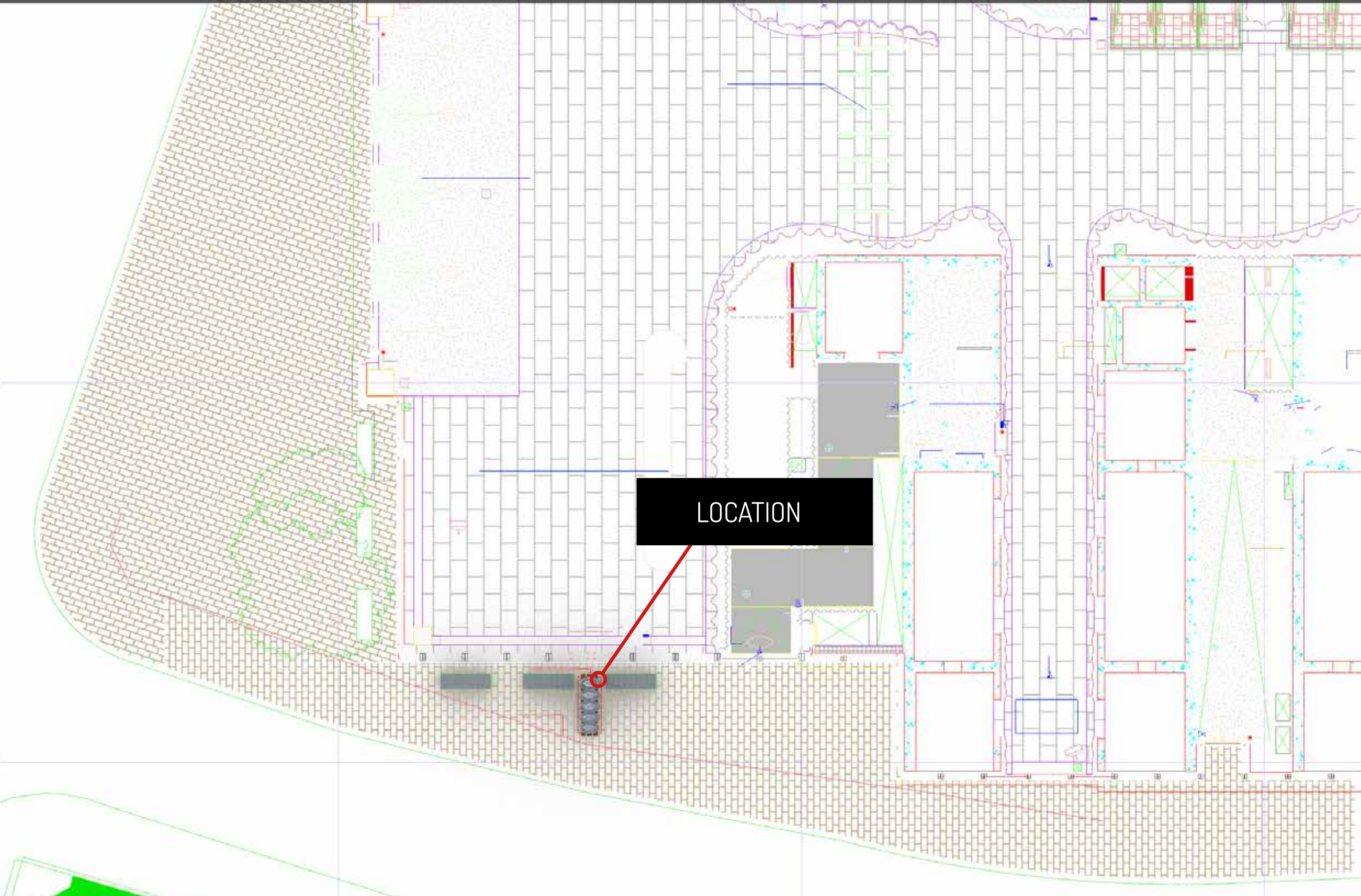




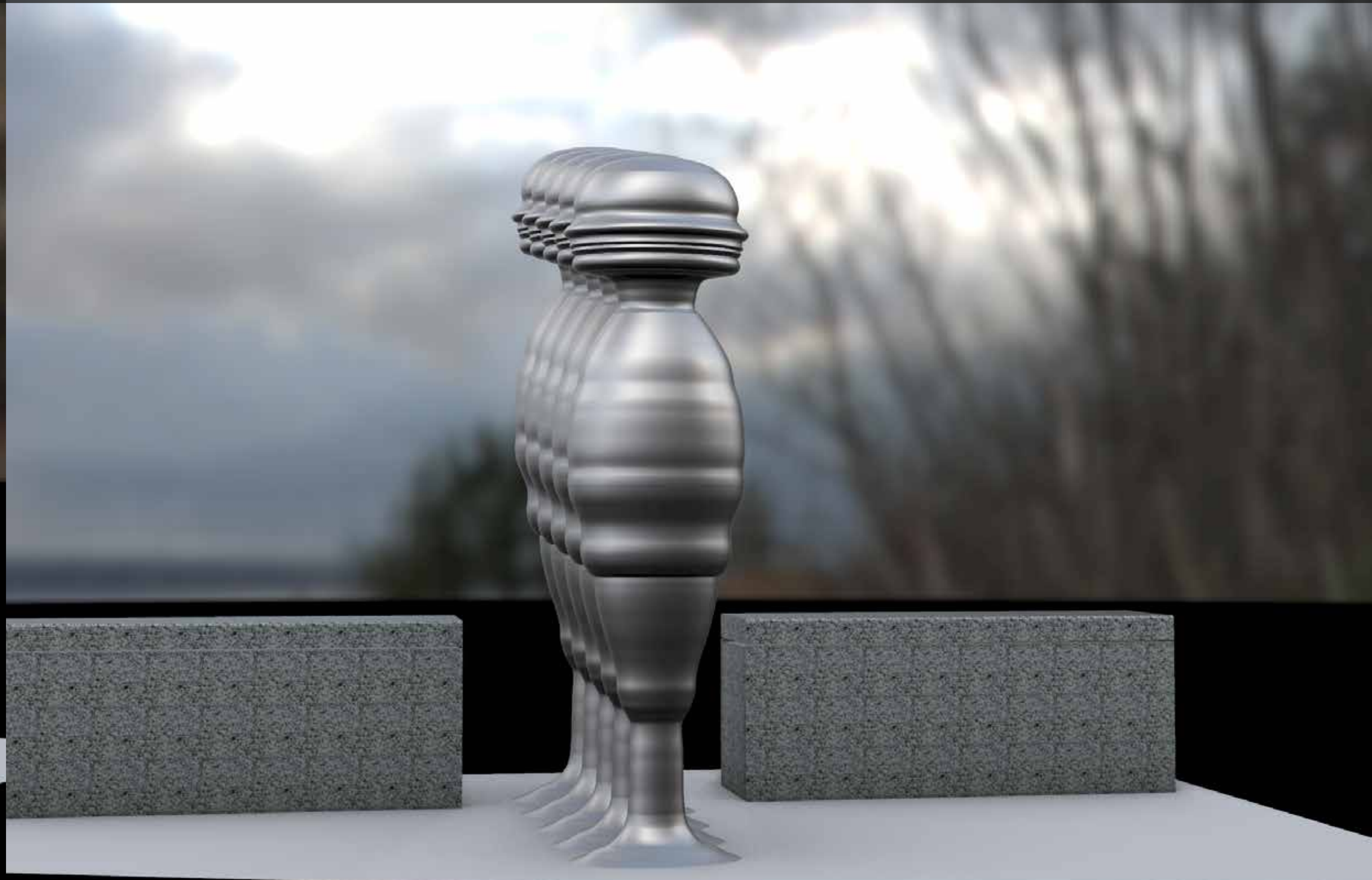
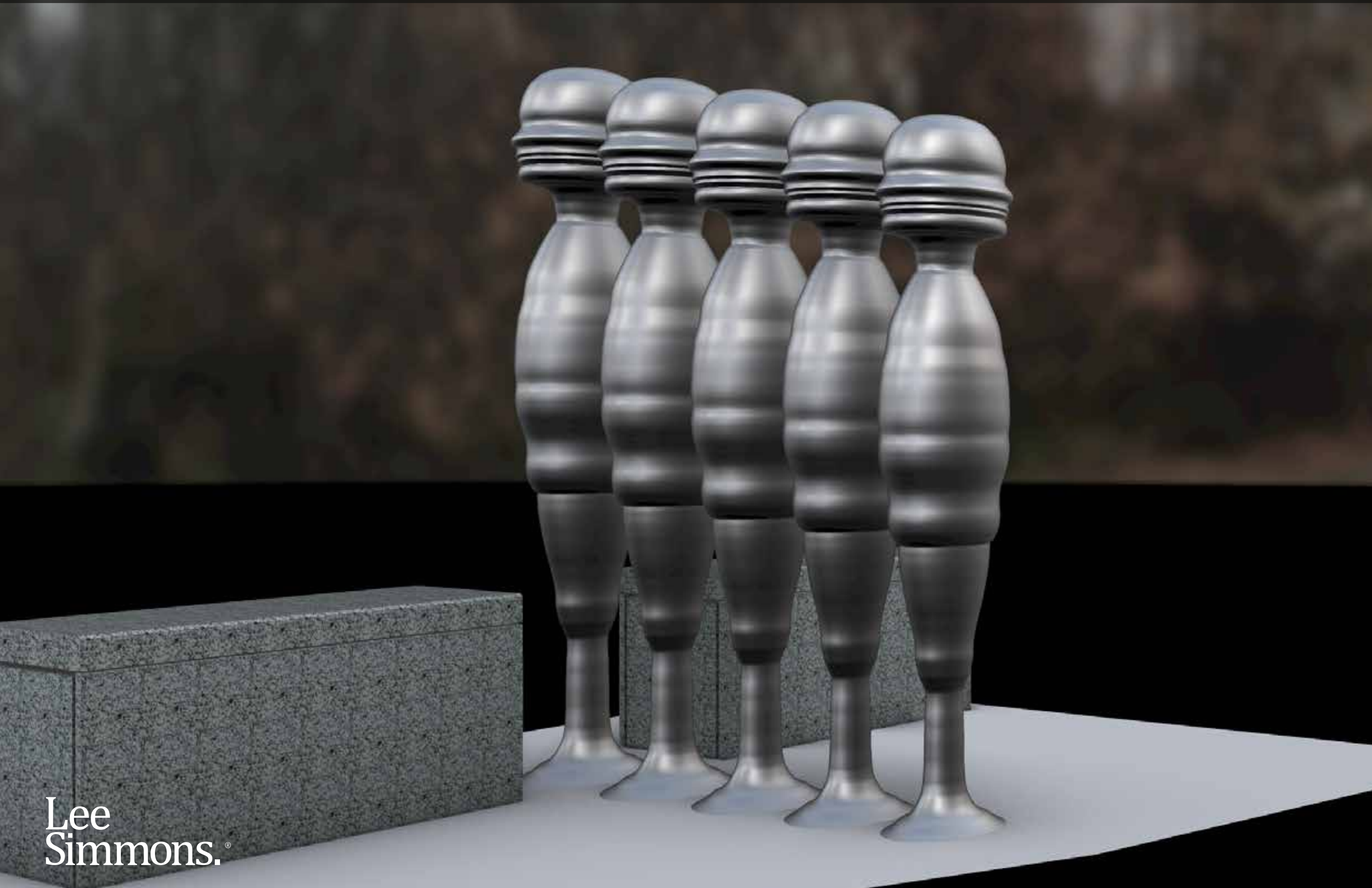
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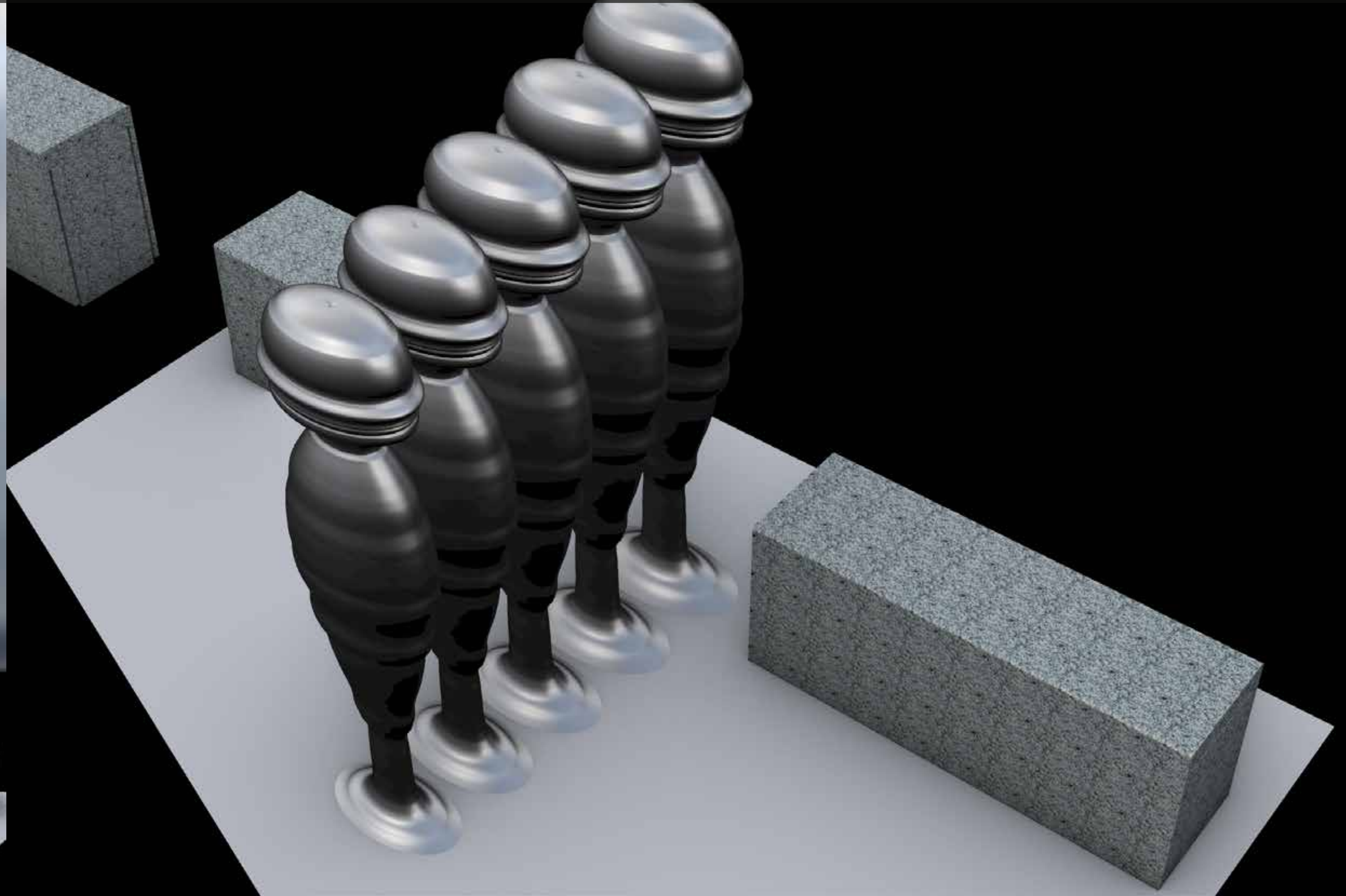
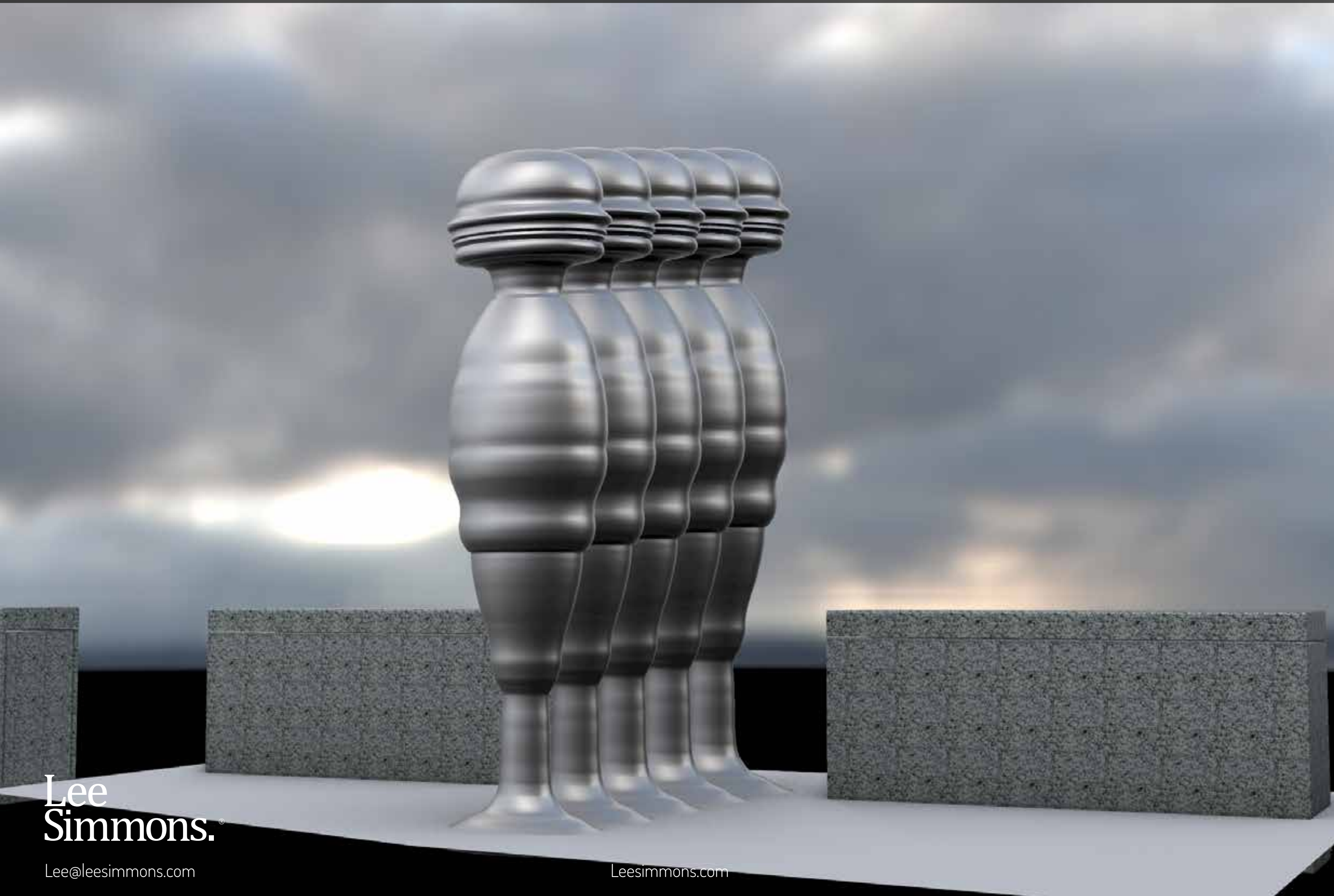


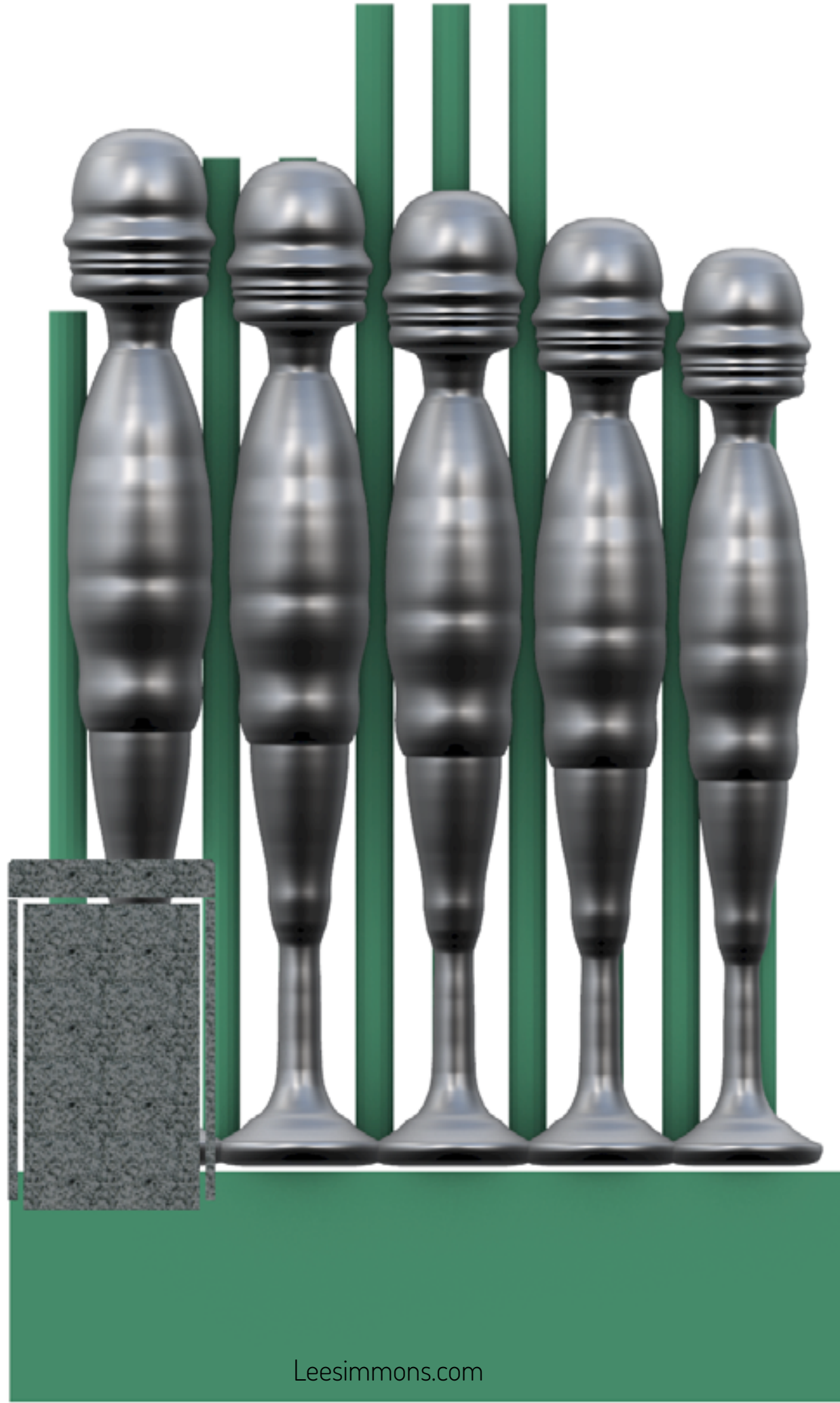
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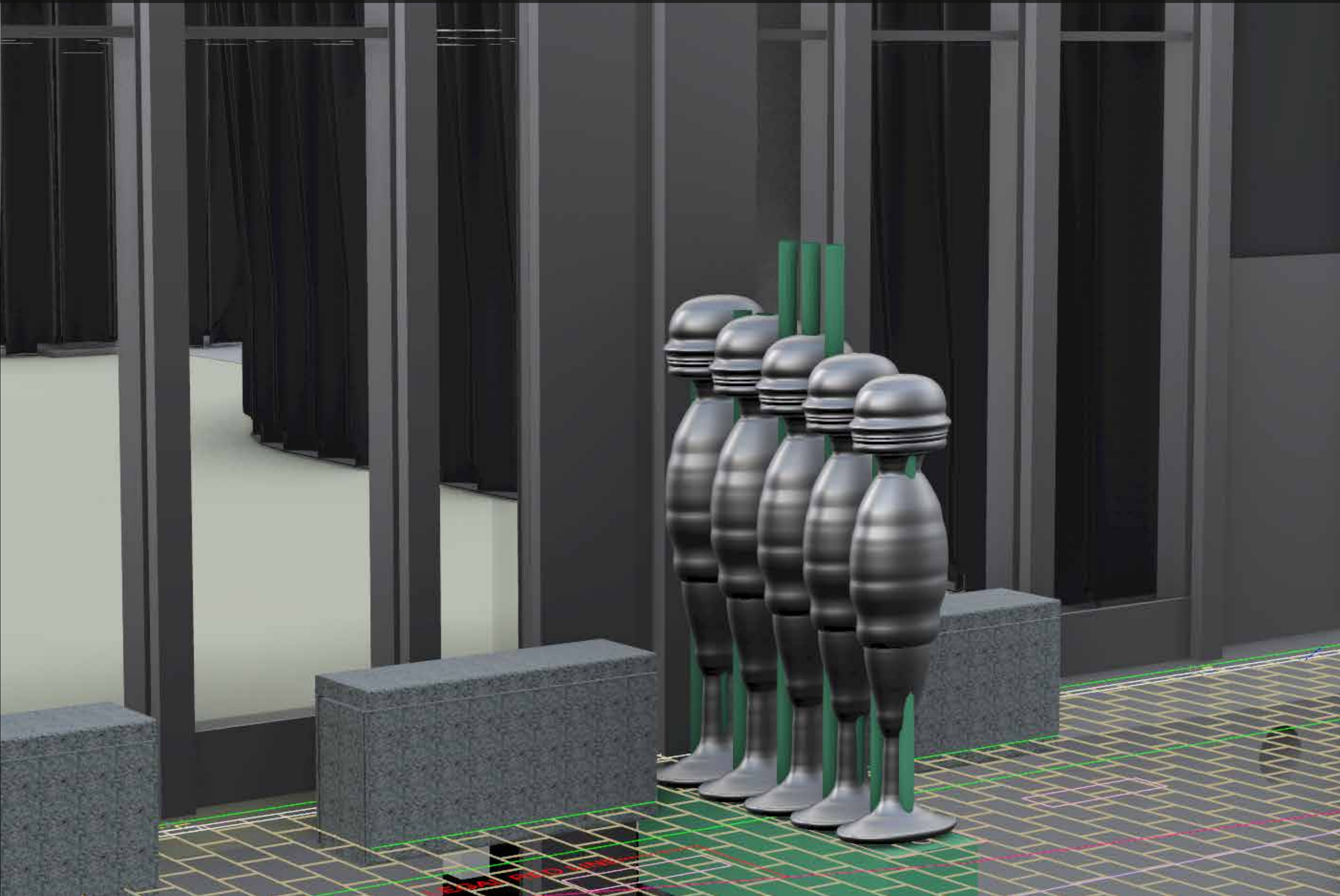
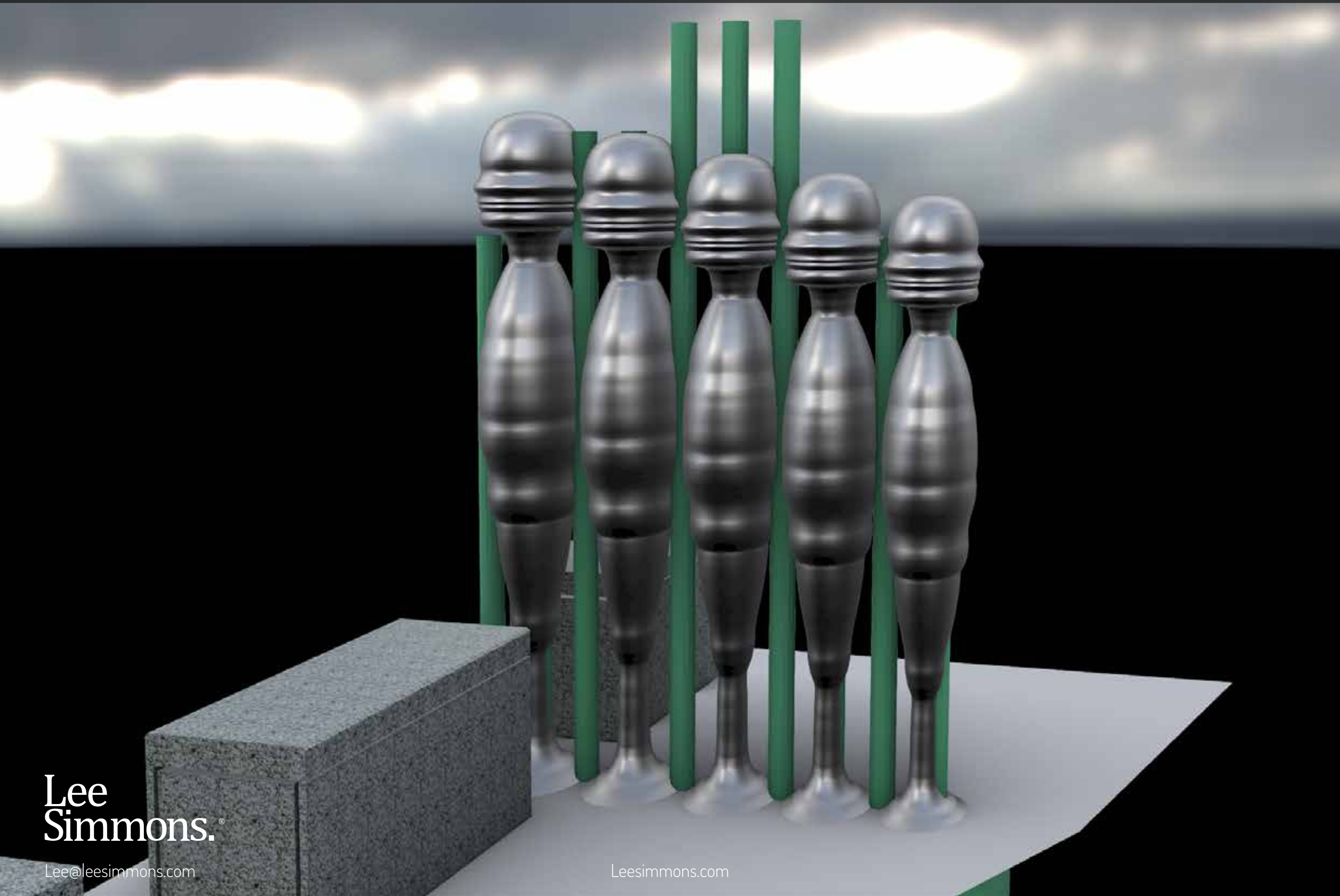


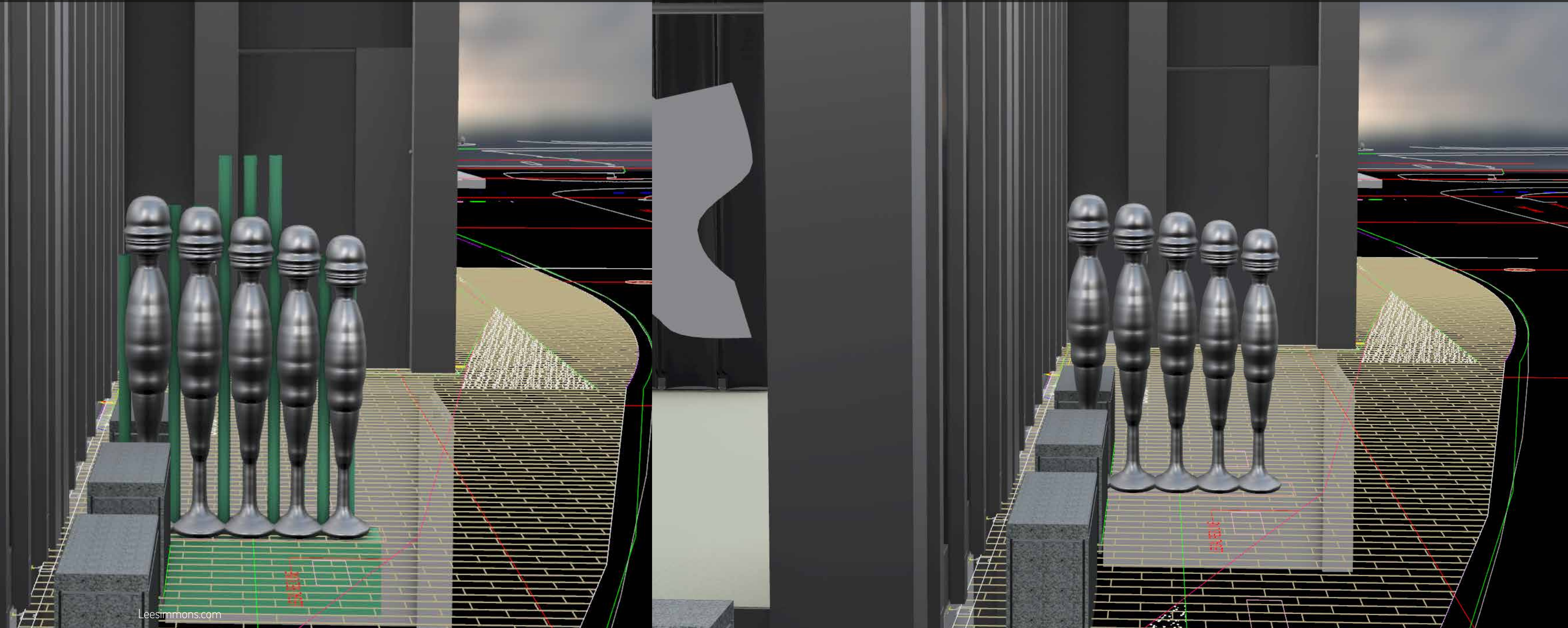


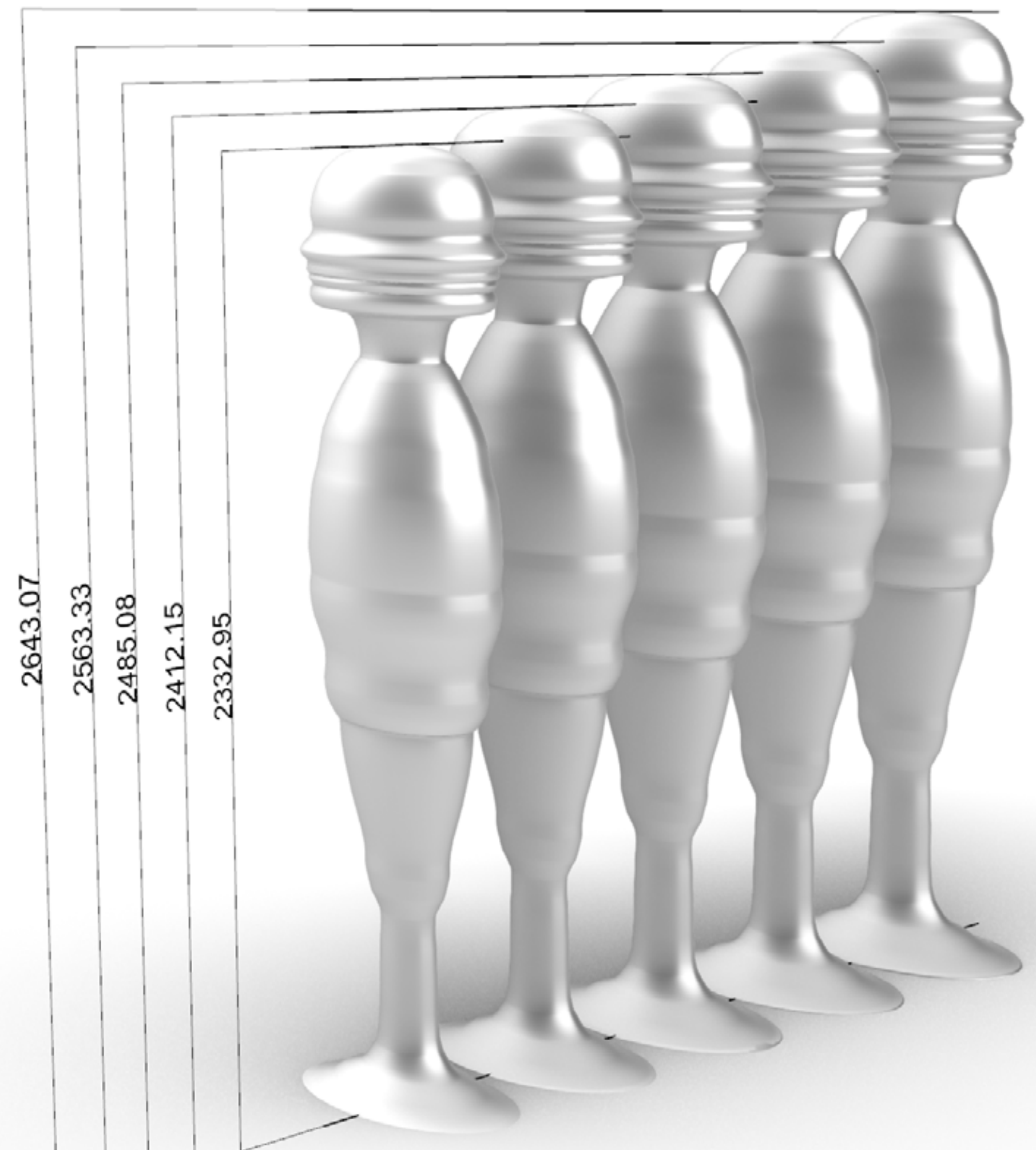
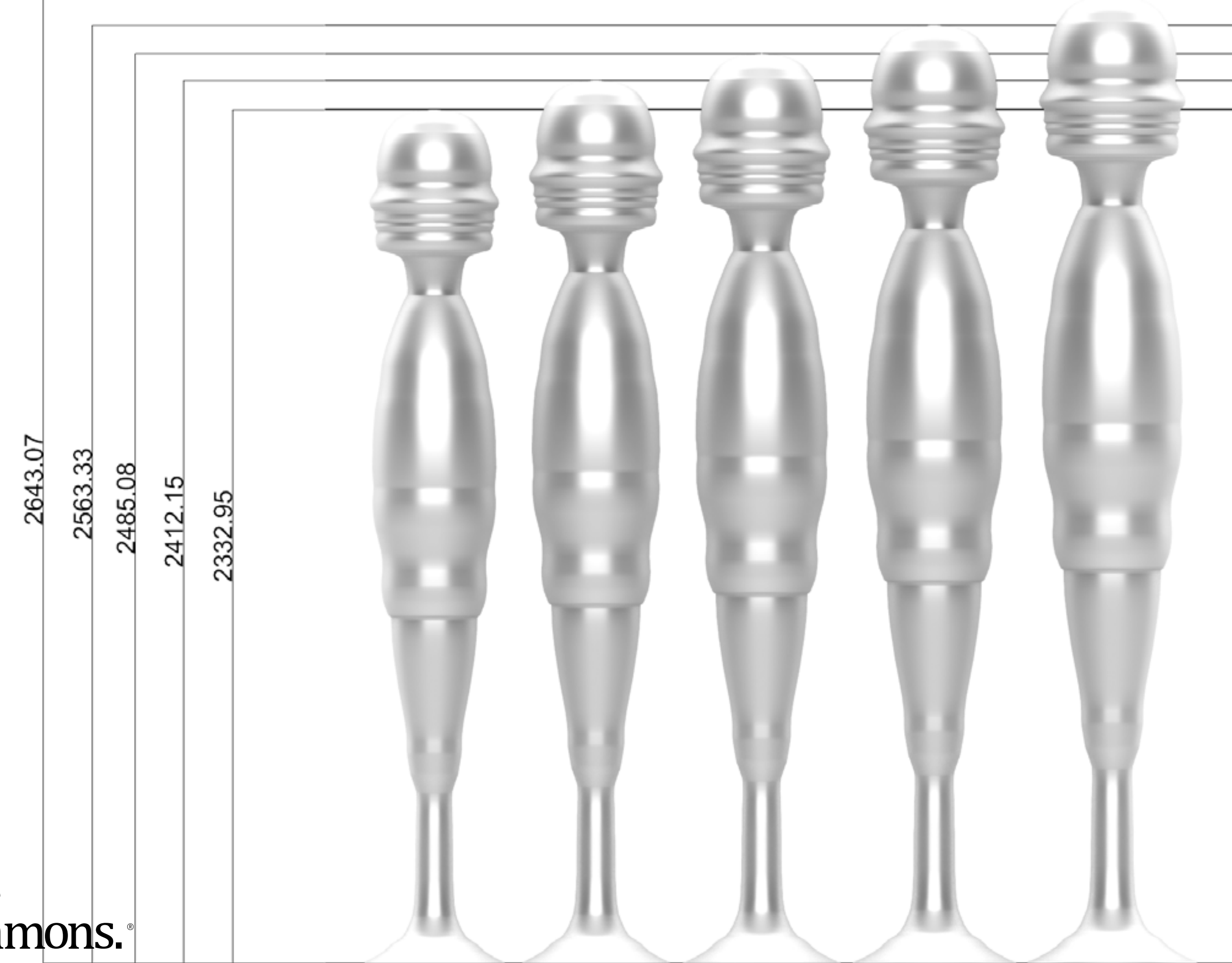


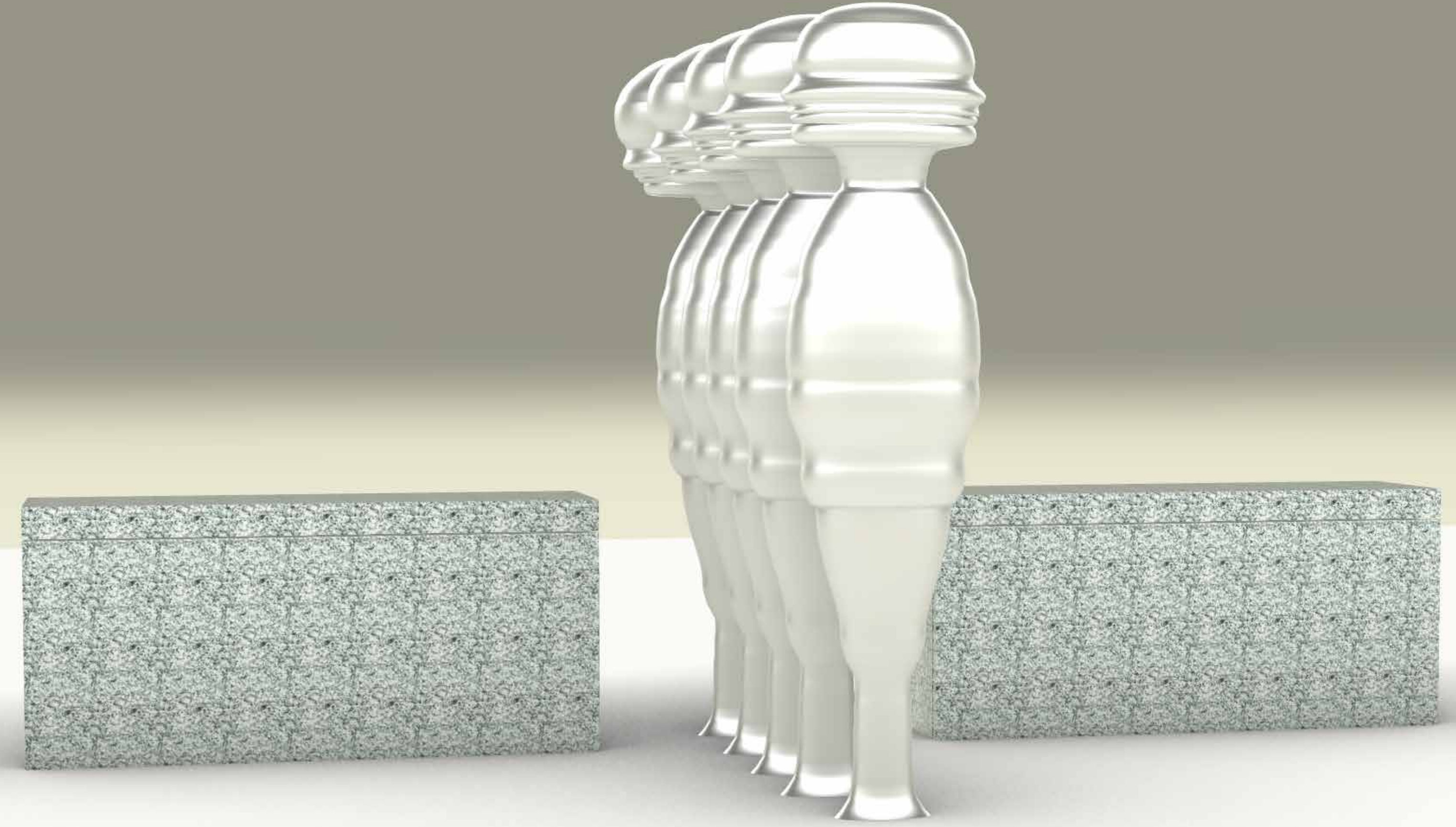
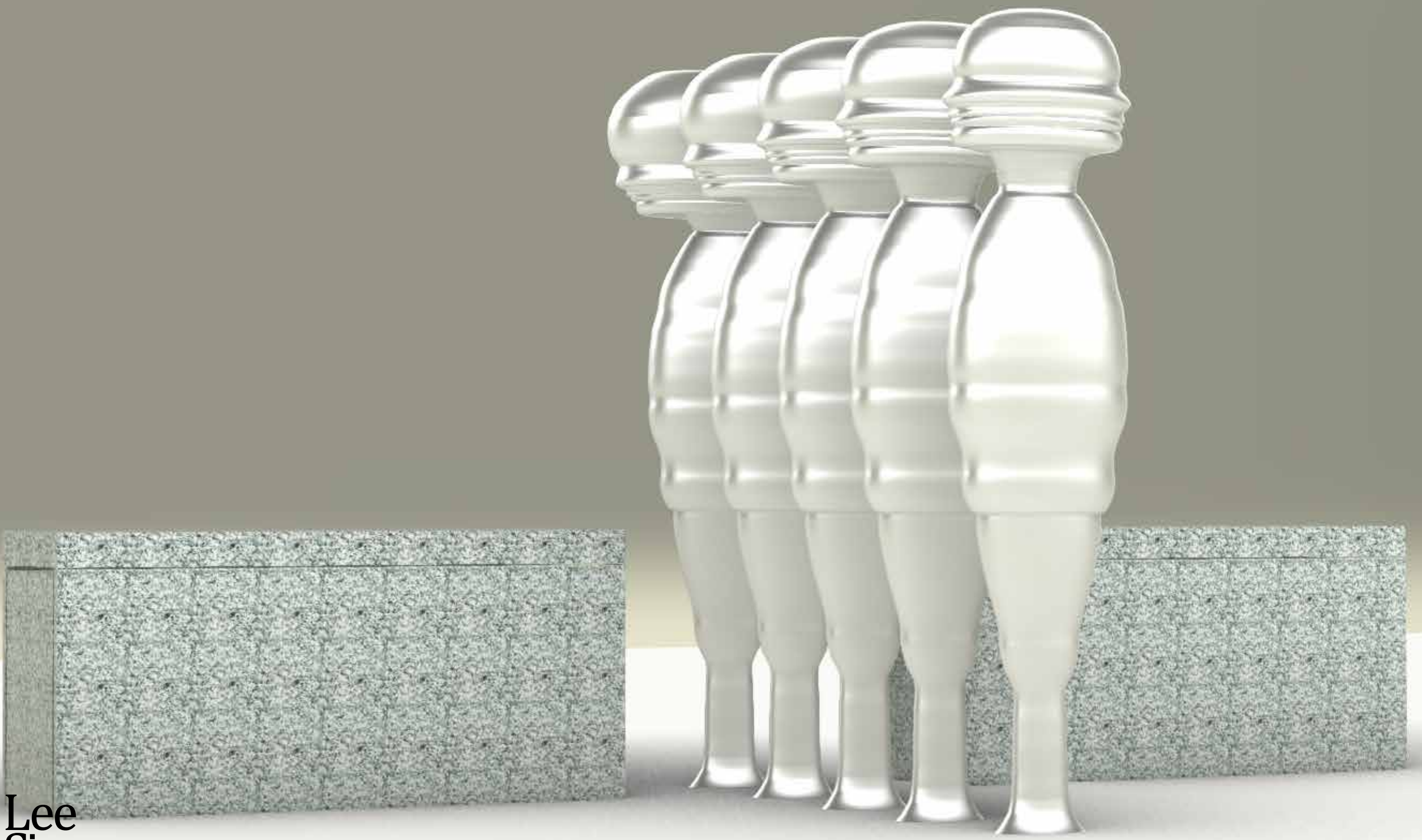




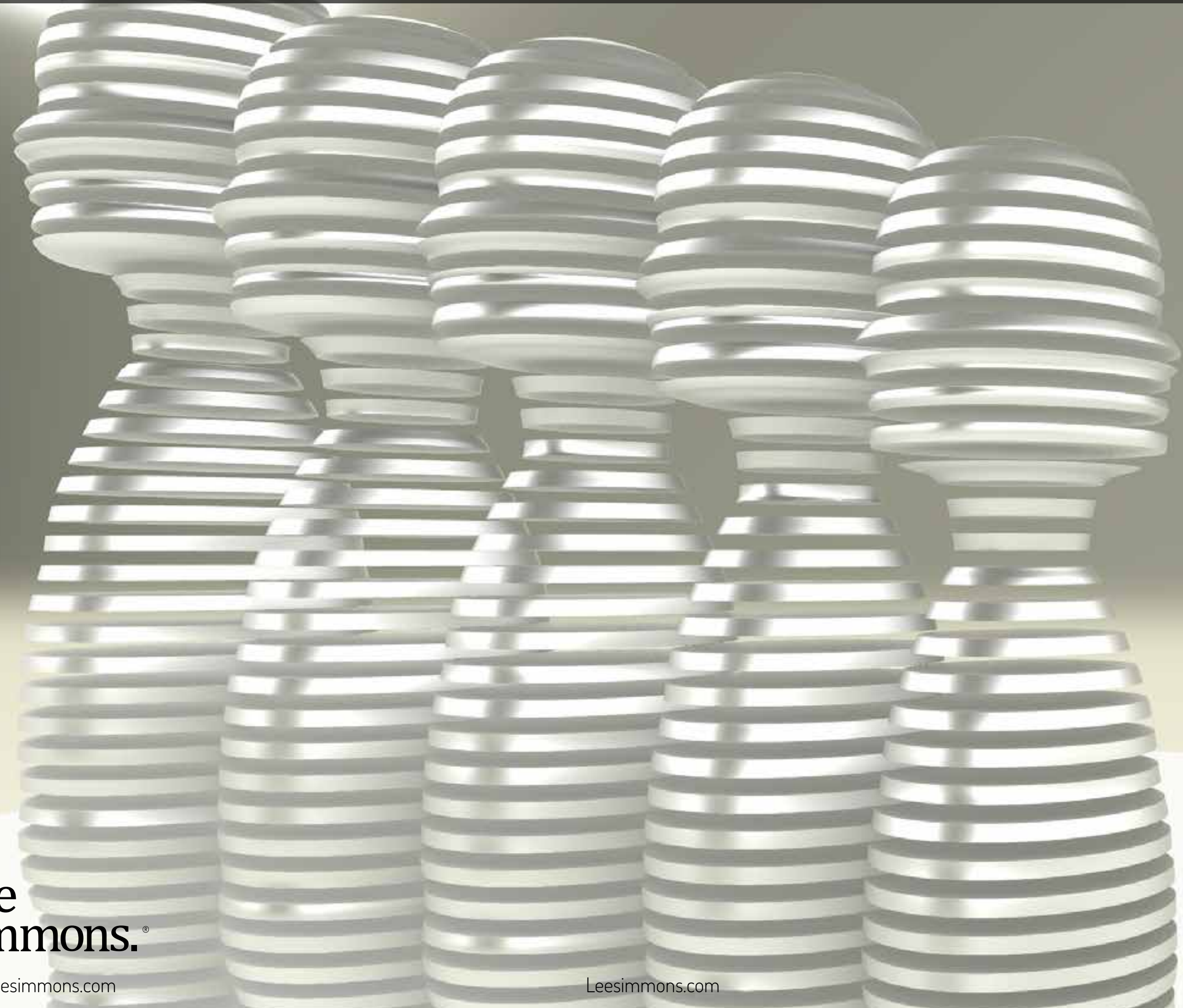








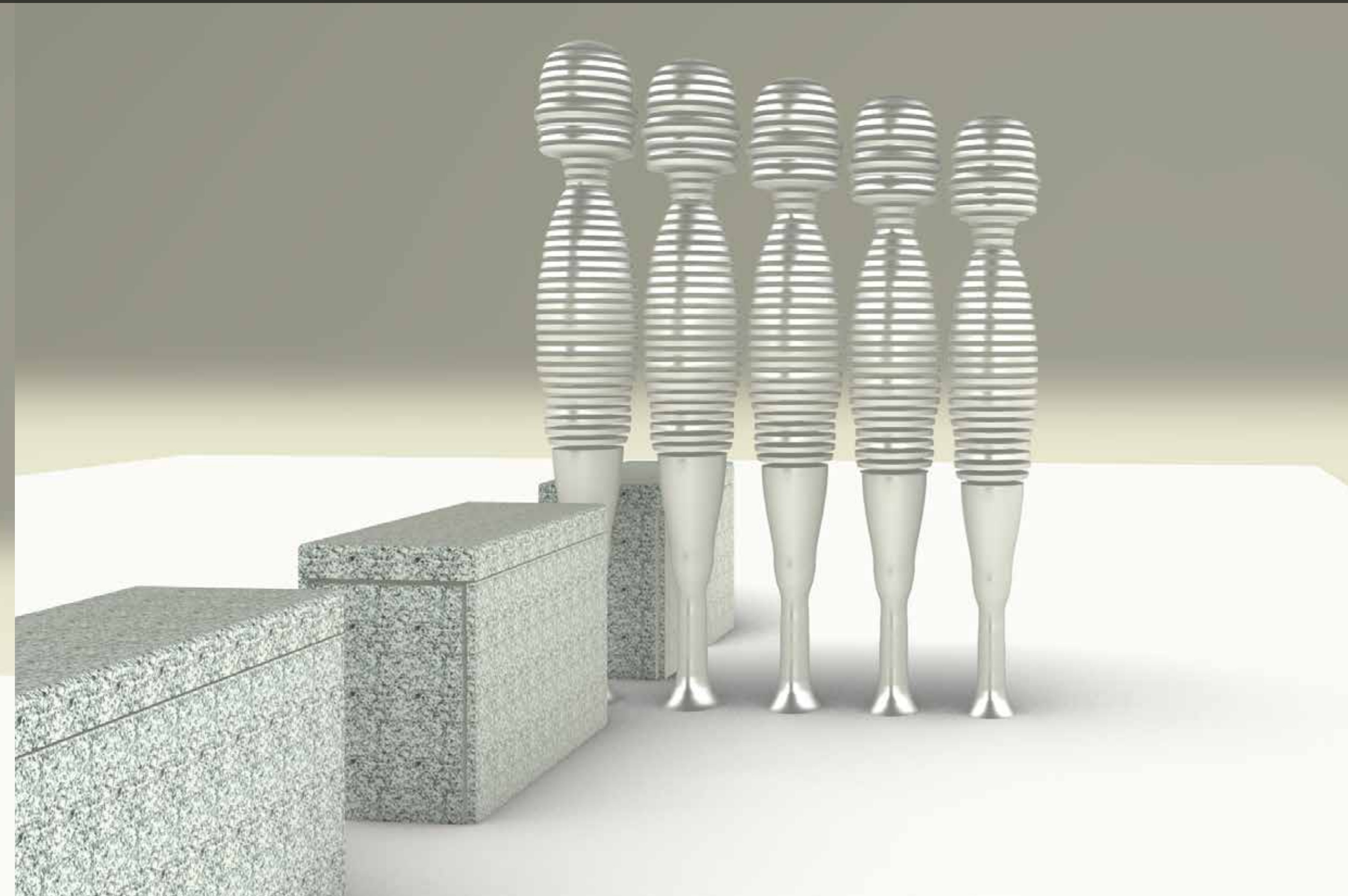


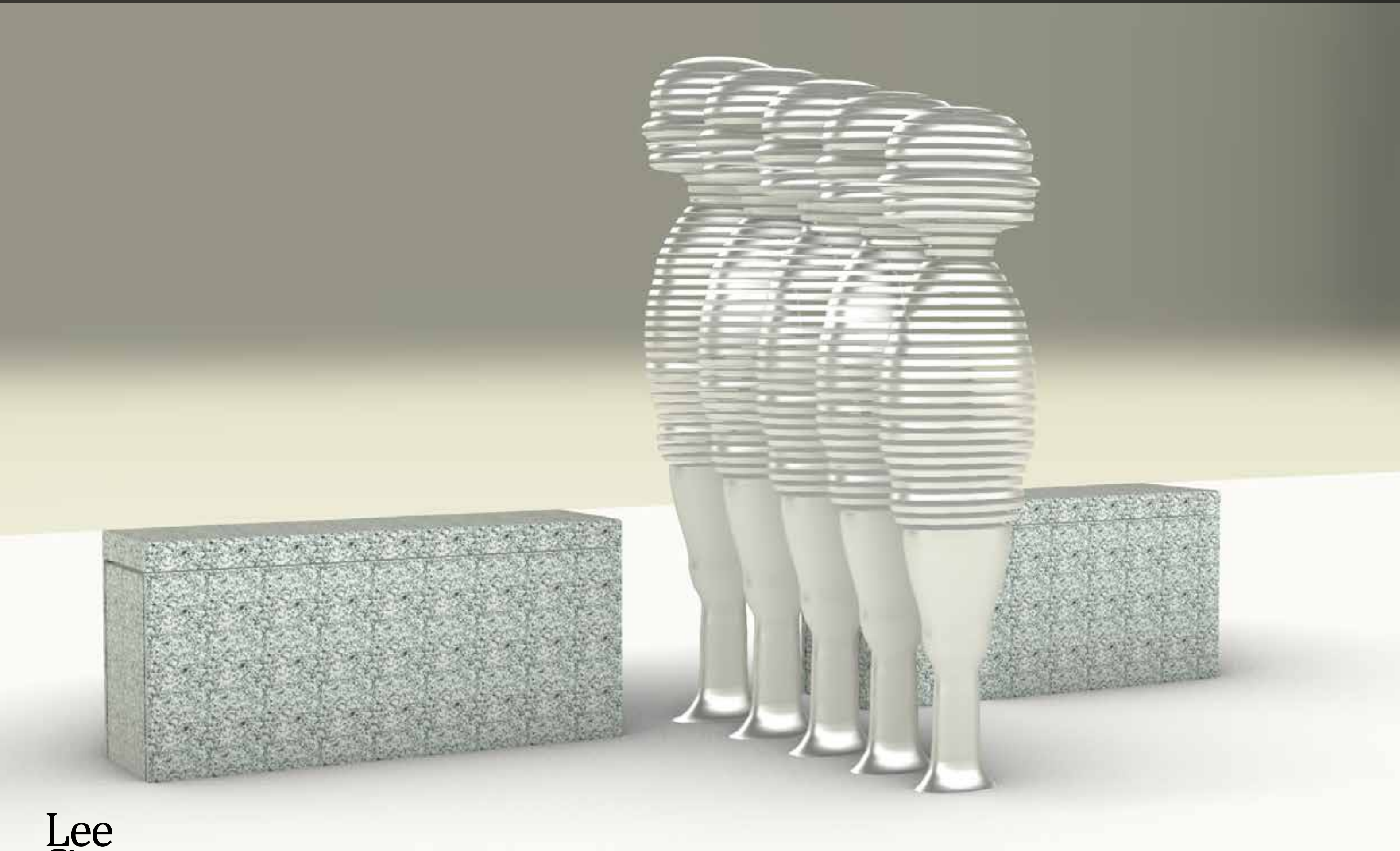


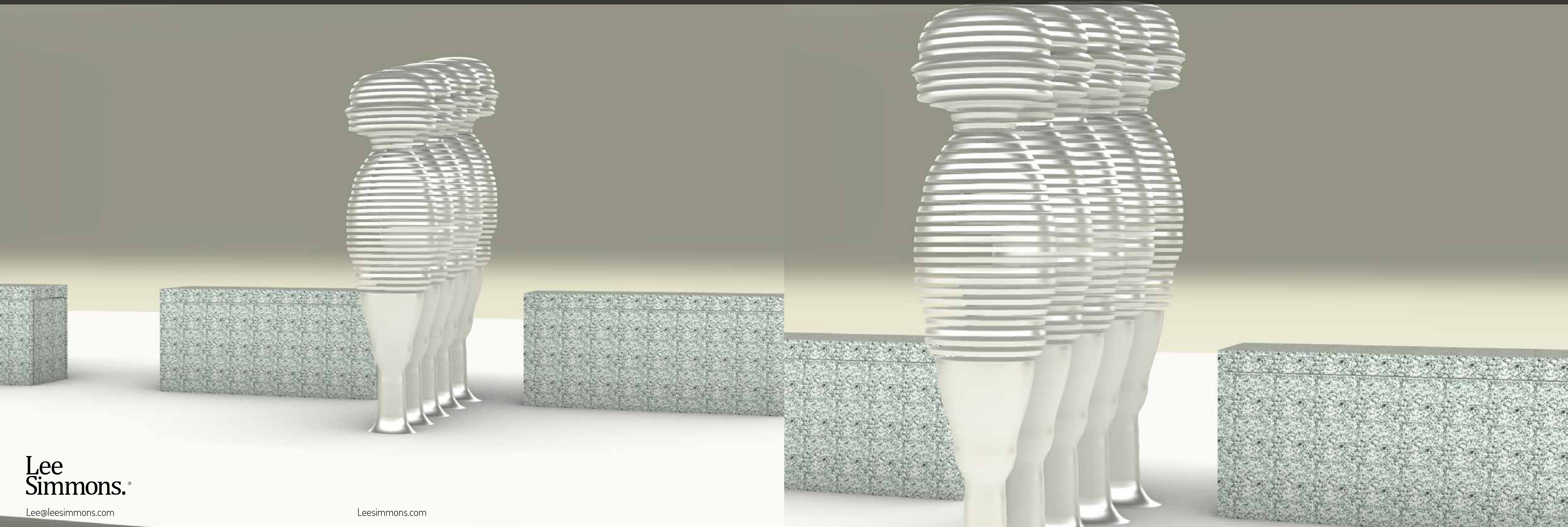
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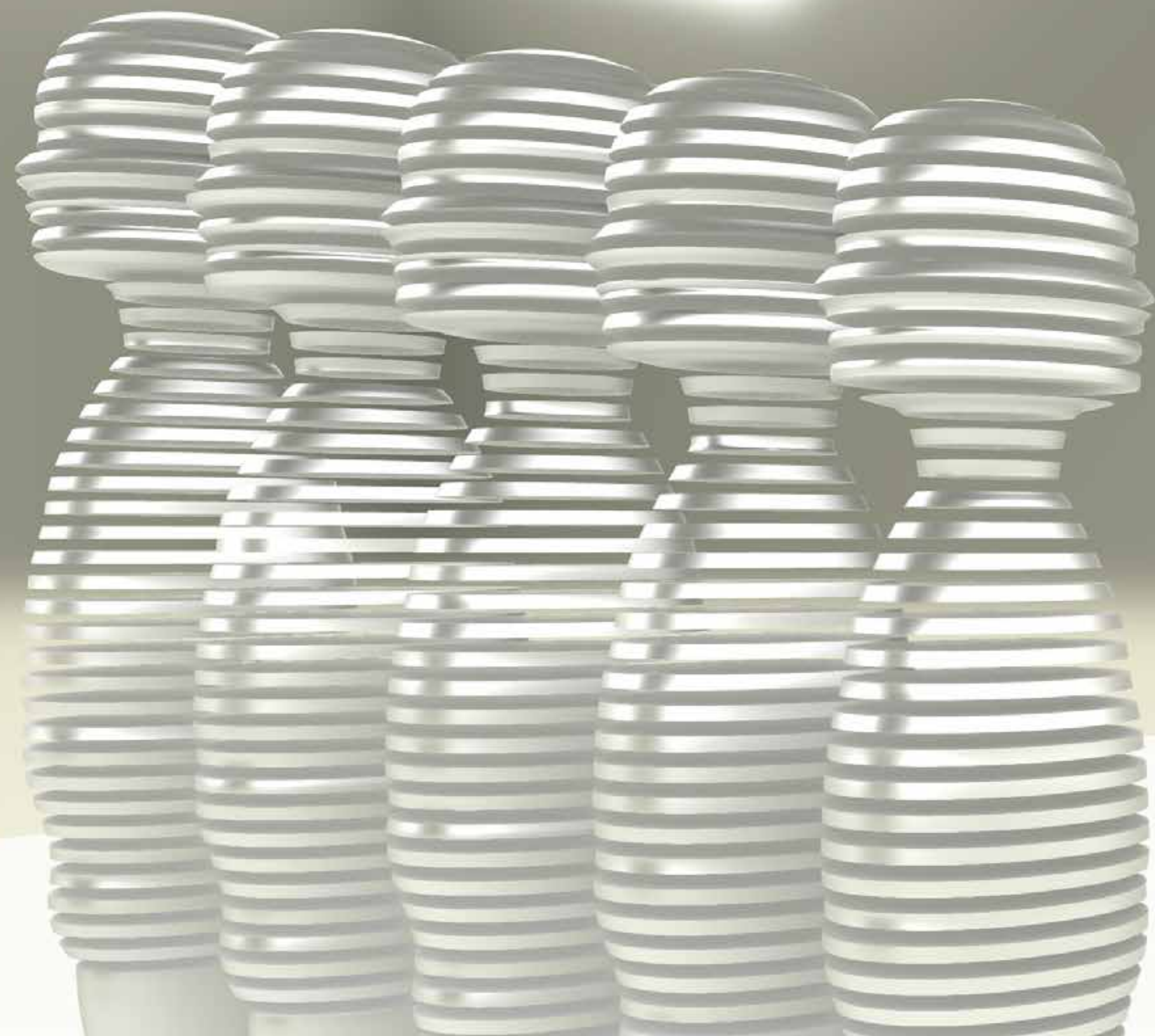
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Lee Simmons

“The theory of a synthesis that brings together art, architecture and design.”

Lee Simmons induces this relationship and works between these blurred peripheries.

Biography

D.O.B	31st December 1987
1999-2006	The John Henry Newman School
2006-2009	Sheffield Hallam University B.A. (Hons) 1st Class Hons
2009-2011	The Royal College of Art

Collections

2012	The Worshipful Company of Saddlers	A silver lectern to celebrate her Royal Majesty's Diamond Jubilee.
2011	The Royal College of Art	Final show piece was purchased by the college for their permanent collection.
2010	Sheffield Town Hall	Commission by The Lord Mayor of Sheffield.
2008	Millennium Gallery Sheffield	Commission for permanent collection.

Commission Highlights

2021	Tay Whale Waterfront Place, Dundee	36 Meter Whale sculpture on the banks of the River Tay.
2021	Circadian Marble Arch Place, London.	Sculptural installation at the gateway of London's westend.
2019	Atrio Regent's park, Open Air Theatre, London	Sculpture to celebrate the life of the director of the theatre.
2018	Novum Incrementum The Wellesley Hotel, Knightsbridge, London.	Sculptural cast bronze screen for private cigar terraces.
2018	The Wall of Fame The London Palladium, Great Marlborough Street, London	Facade installation / restoration to Great Marlborough Street.
2018	Quadrilinear 66 Wigmore Street, London	Sculpture to new building in Marylebone

2018	Dendrite 40 Beak Street, London.	Sculptural cast aluminium Frieze to new building in Soho.
2018	Great Portland Estates Tasman House, 55 Wells Street, London	A Portland stone sculpture to the entrance of the new building.
2017	The Ladbrokes Trophy Newbury Racecourse	Perpetual winners trophy.
2016	The Great War Memorial Westminster City Council, 66 Victoria Street, London	To commemorate council members who fought and died during WW1.
2014	Grandioso 77 Wimpole Street, London	Sculptural gate for new building.
2012	Lectern The Worshipful Company of Saddlers	Reading lectern for silver collection.
2012	St. Leger Stakes Trophy Doncaster Racecourse	Winners rose bowl trophy.
2011	Confessions at the Bench Royal College of Art	Degree show piece, now part of the RCA permanent collection.
2009	Sheffield Hallam University Retiring gift for Dean of University	Silver chalice / 'Reflection Cup' - sterling silver & silver gilt

Award Highlights

2022	PSSA Marsh Awards	- Shortlist excellence in public sculpture 'The Great War Memorial'
2011	Armourers and Brasiers Award	- RCA Show
2011	Theo Fennel Award (Best Work in Silver)	- RCA Show
2010	Goldsmiths Craft & Design Council Awards	- Gold Award Best Junior Award - Gold Award 3D Design Silversmith - Gilian Packard Award
2009	Winner of the Goldsmiths New Designers Award	- Winning student from all graduates in the UK studying Metalwork & Silversmithing.

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