Silo D, Silvertown, East London. Abandoned granary silo, transformed into a community led ceramics workshop focused on creating circular economies.

My intention for silo D is to create a space that celebrates the process of making through ceramics. The user will be encouraged to provocatively participate in the entire product's life-cycle from mixing the raw material, choosing a mould, forming its shape and finally decorating it with glaze. This will invoke a sense of sentimentality and connection with the pieces made within Silo D therefore reducing the users' need to acquire these items from less sustainable sources while teaching the local community about circular economy.

The design of the workshop will be created with the same values portrayed within its practice. A timber framework made from wooden pallets sourced locally from places such as London City Airport and The ExCel Centre will be used to extend the footprint of the site, weaving in and out of the building to create continuity and elevate the existing. The framework will also: provide clear markers for circulation as it develops into a ramp system, eventually lowering into floating pontoon to allow users to connect with the dock and housing a mould gallery to help guide users through the material process

I aspire for Silo D to become a symbol for rebirth and new life within the community as these ideologies are communicated through the activities and the site itself. Religious elements have been incorporated into the design to emphasise this. The original grain bins have been extracted inspired by the domes seen in Hagia Sophia and the Kiln uses Buddhist Stupa's as precedence. The Kiln has been placed in the centre of the site to represent the heart of the project due to the transformation that occurs within it. This placement also allows the space within the main tower to be interpreted as the negative between the kiln and the bins above, reinforcing the imagery of moulding form used within the workshop.

The activities within the workshop will be aimed at Newham large Muslim demographic, predominantly the women of the family, as ceramics hold significant importance within the culture. Often families will buy whole tableware sets in preparation for weddings. Silo D can play a role in reducing the environmental impact and bring a larger sense of importance, sentiment and meaning to the tradition.

Lastly the proposed been designed to benefit the local wildlife inhabiting the dock, while allowing users of Silo D to engage with resident birds and utilise the same water feature to encourage people to focus on the sustainability lessons taught without the workshop.



Silo D, Silvertown, East London.

Exploded diagram demonstrating where the main elements of the intervention within the existing space. Ensuring the user journey reflects the material journey to make the activities easy to understand for the user. Basic requirements of each space has been added so that the proposal is equipped adequately. The granary bins within the main tower have been excavated to mimic the shape of the electric powered kiln (supplied by solar panels placed on the south side of the building) to create imagery of a piece of ceramic being released from a mould.





1. Door into kiln 2. ceramic shelves

3. Steel rods used to contuct heat within the kiln.

4. Workshop storage room

5. Interior room to reduce energy consumption by heating a smaller space

6. Double walls to create vaccum to retain heat.

7. Downdraught system to retain some heat generated by the kiln to heat the workshops and basement.



(4) Making Room - Moulds

- Working benches
- Pottery wheels - Storage
- Tools
- Glaze

Silo D, Circular Ceramics Workshop





training process for its staff.





Fig 1: Isometric drawing of the waterfall basement detail, showing the interior halve used within the slip casting and mould making process and also for play while the moulds and slip is drying. The exterior half will be converted into a bird habitat for local bird within the royal docklands.

 Exterior stepping stones to be used by local wildlife, particularly birds as structure makes suitable nesting grounds.

2. Suspended glass pane to create invisible barrier between interior and exterior. Approx 20mm gap at the bottom to allow water to pass through

3. Interior steeping stones, used for play and exploration. Connecting users of Silo D with the dock while drying takes place.

4. Pools to hold water for collection to use in the mixing process

5. Timber ledge detail for sitting and connecting with the water feature6. Tiled walls, tiles made on site through press mould production.

Timber frame work constructed from pine locally sourced from wooden pallet

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 EFC (earth friendly concrete) sourced from capital concrete supplier located within Silver town.

- Suspended triple glazed window to allow barrier between the interior and exterior but still allowing water to pass underneath.
- Skylight set into the ground floor to allow extra light into the basement level and create lighting reflection onto the water.
- 6. Pine ramp allowing access from framework back to ground level.
- 7. Ground Level
- 8. Reclaimed windows from millennium mills set into steel window and door frame.
- 9. Existing concrete column.
- 10. Timber edging used for seating.
- 11. Water pools to allow water collection for mixing processes.
- 12. Basement level.
- 13. Ceramic tiles made in house through batch slip casting
- using the production of multiple moulds.
 14. Steel I Beam for structural support.



Bird Species within Royal Docks











Mixing room

Mixing, Casting, pouring

The Basement of Silo D was converted into a mixing room for slip and plaster casting. Both of these processes require a lot of water, which is supplied via a waterfall feature allowing water from the dock to descend into the basement and in turn provides a suitable environment for water birds to inhabit. This structure is interactive and users will be encouraged to either obverse the wildlife or play within the pools during the waiting times when the plaster is drying.

The mixing room the juxtaposition between the interior and exterior. The Sheet of glass acts like an invisible barrier to allow the wildlife and users of the workshop to work in harmony side by side, utilising the docks water for different activities. The top of the visual shows the pool that the water falls into which is where is will be collected for the mixing process. a ledge has been added to create a seat so people are encouraged to engage with the feature.

Silo D, Silvertown, East London.

Extensions to the existing building were included within the proposal to allow for easier circulation. These extensions were made using a modular framework consisting of half lap, mortice and tenon joints to reduce the materials required, and built from wooden palettes sourced from around the local area (ExCel centre, London City Airport, o2 Arena). an Insulative and waterproof wrap covers them, made from bi-product sugar cane fibres sourced from the local Tate and Lyle Factory.



Interior view of the reception and exhibition space. An extension of the existing left side tower was incorporated made from a modular timber frame work and sugar cane fibre (bi product from the sugar refinery process) sourced locally from the Tate and Lyle sugar factory.









experimentation and now diagram describing the materi process.



_ 27 - 28 Years



Estimated Life cycle of Modular framework.

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4. Modular framewoi

5. Extensions for Silo D

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7. Decompose

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_____ 100 Years

