CERAMICS LAB

SPACE DESCRIPTION

The Ceramics Lab is a dedicated space used by students to learn various techniques and processes of ceramics, glazing and firing, and to develop and express their creative talents working hands-on with clay. This Lab requires a variety of spaces reflecting the stages of working with clay:

- direct access to the exterior to receive and store raw materials on pallets.
- spaces to shape the clay; tables and chairs, and pottery wheels.
- storage spaces for drying.
- Kiln room with additional independent exhaust, and double doors for large equipment.
- Bisque storage: 10' x 10'
- Glaze room: 10' x 10' minimum

Storage space is key. For fragile materials, there should be racks or shelving in the room as well as wall and base cabinets.

GENERAL

All perimeter walls shall extend full height to deck.

Preference for Lab with a width to length ratio no more than 3:4 to allow for maximum flexibility.

Anticipated Room Occupancy 16

Minimum Ceiling Height: 9'

ADJACENCIES

The Ceramics Lab Lab shall be nearby or include the following: Gallery and Public Areas, Exterior Access, Loading Dock with Trash and Recycling, and Services such as laundry, lockers and showers, and a custodial closet.

ACOUSTIC

Acoustic ratings for perimeter walls: STC 45. Special accommodations may be required due to location in the building.

Maximum recommended HVAC Background Noise: 40dBa

Follow the recommended methodologies and best practices for mechanical system noise control in ANSI Standard S12.60; the 2015 ASHRAE Handbook-- HVAC Applications, Chapter 48, Noise and Vibration Control (with errata); and AHRI Standard 885–2008.

Maximum NC Level for VAV's shall be less than 30 at maximum CFM.

MECHANICAL

Additional air handling and ventilation for ceramics, kiln rooms, and glazing rooms.

Additional independent exhaust for kilns vented directly to the exterior; exterior wall locations preferred. Coordinate with specific program requirements.

PLUMBING / GASES / UTILITIES

Large, deep Sinks with Clay Trap at each

ADA Sink with Clay Trap

Verify Kiln type with program (Gas/Electric). Coordinate utility requirements for Kiln.

ELECTRICAL & DATA

Verify equipment specifications and requirements with the program.

Provide voltages as required by selected equipment 120/208V and 277/480V

Place wall outlets at no more than 6' intervals or as necessary to allow for 30% coverage.

Provide additional power for pottery wheels

Audio / sound system to include instructor microphone, soundbars and wireless connection to student headsets as needed.

LIGHTING

Natural daylight when possible, with North-facing windows or clerestory preferred.

Provide LED lighting system with appreciable indirect component and good diffusion for maximum visibility from all directions. Lighting color rendition to be 5,000K – 5,500K (Natural White to Pure White)

Provide low-brightness luminaires with high visual comfort probability (VCP) in all viewing directions. Average 40fc at 30" A.F.F. Min CRI 80.

Lighting watts per square foot and controls shall meet the latest requirements of ASHRE 90.1

TECHNOLOGY

Provide Wireless capability in all labs.

Verify equipment specifications and requirements.

ACCESSORIES AND EQUIPMENT

Coordinate with specific program requirements.

Pottery wheels

Provide ample storage: shelving and racks for equipment, tools, supplies and projects in process.

Wall and base cabinets with locks.

Provide a whiteboard and two framed 4' x 4' tackboards.

FURNITURE

Furniture shall be selected for durability, cleanability, and flexibility. Tables and stools.

FINISHES

Ceilings
Recommended Height: 9' minimum.

Floors
Sealed concrete for durability: forklifts may deliver pallets of raw materials.

Countertops

Verify requirements with the program.

Walls

Epoxy Paint.

DOORS AND WINDOWS

Doors shall be minimum STC 30 with 6" x 30" Window Lite preferred.

Provide overhead door or double door with direct access to the exterior.

Windows or clerestory for daylight: North facing preferred.

Consider interior windows to provide visibility of the program in action from high-traffic areas in the building.