

Grey Learning Studio

A portable learning space with twelve student desks, a teaching zone, a storage room, staff kitchen and washroom. Exterior: Warm-grey corrugated steel, white fascia and charcoal frames; flat container roof.

12 x 40 ft

480 sq ft enclosed

FLAT CONTAINER ROOF / CORRUGATED STEEL

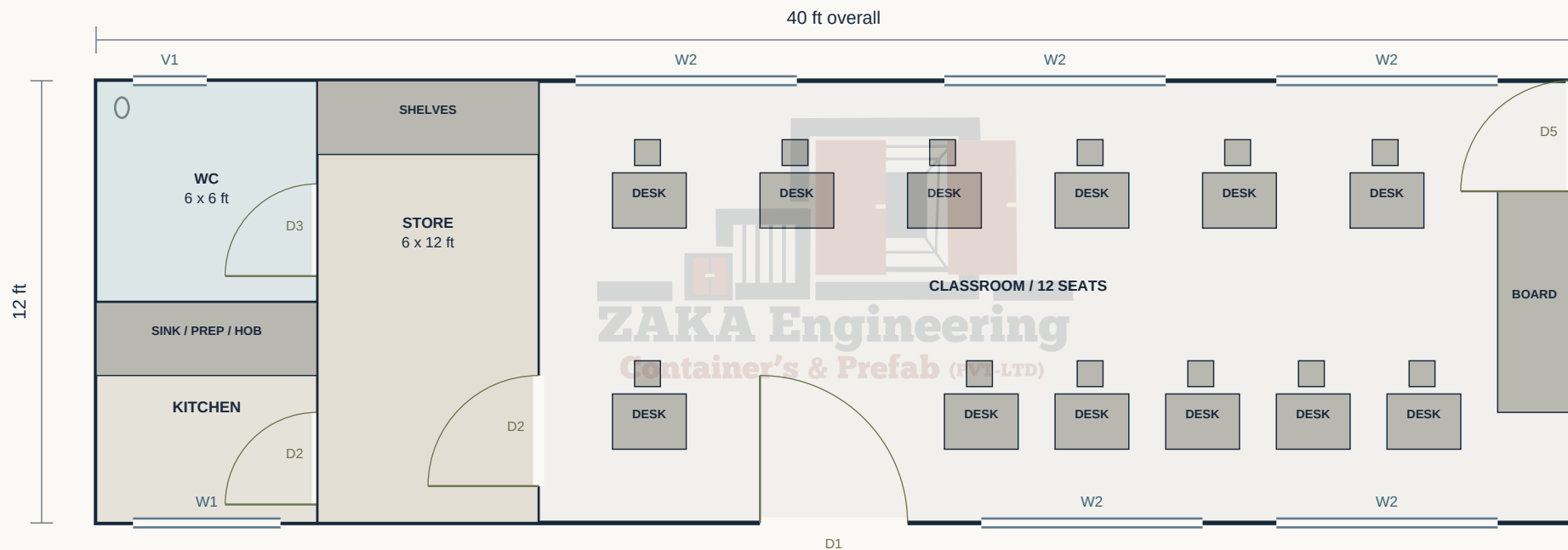


PHOTOREALISTIC EXTERIOR / REVISED ROOF & CLADDING

01 / GROUND FLOOR

12 x 40 ft. Planned for daily use.

Nominal feet before wall deductions. Furniture, door swings and opening tags are shown.



ROOMS / NOMINAL DIMENSIONS

Classroom: 28 x 12 ft / 336 sq ft | Service / storage: 12 x 12 ft / 144 sq ft | Openings: Centred main entrance, classroom end exit, wide teaching windows and high-level washroom vent.

Front / main entrance is at the bottom of plan. A separate opening schedule follows.

02 / ROOMS & CIRCULATION

A place for every function.

Room sizes reconcile with the external footprint. Service rooms are included in their parent zones.

Classroom	28 x 12 ft / 336 sq ft; twelve seats, central aisle and front teaching area.
Service / storage	12 x 12 ft / 144 sq ft; kitchen 6 x 6 ft, washroom 6 x 6 ft and store 6 x 12 ft.
Openings	Centred main entrance, classroom end exit, wide teaching windows and high-level washroom vent.
Footprint	40 x 12 ft = 480 sq ft gross enclosed area.
Entry / circulation	Main entry, service doors, partitions and furniture positions follow the dimensioned plan.
Finish direction	Grey, charcoal and white steel surfaces; #6B7550 border accent.

03 / DOORS & WINDOWS

Every opening. Clearly scheduled.

Window and hatch sizes are width x height. Tags correspond to the floor plan; front is the bottom edge.

D1 / Main entrance 4 ft wide x 7 ft high; 1 opening(s).

D2 / Internal / staff door 2.5 ft wide, 3 ft wide x 7 ft high; 2 opening(s).

D3 / Washroom door 2.5 ft wide x 7 ft high; 1 opening(s).

D5 / Service / secondary exterior exit 3 ft wide x 7 ft high; 1 opening(s).

V1 / High-level washroom vent 2 ft wide x 1.5 ft high; 1 opening(s).

W1 / Window 4 ft wide x 4 ft high; 1 opening(s).

W2 / Window 6 ft wide x 4 ft high; 5 opening(s).

Glazing and door hardware, sill levels, safety glass, ventilation and clear openings require final coordination. Food-service fit-out and hygiene finishes follow the selected equipment and operating requirements.

EXTERIOR / ROOF & CLADDING

The same design. Every side.

Revised corrugated steel construction and roof profile. Measured plans control the openings.



FRONT / ENTRY PERSPECTIVE

Warm-grey corrugated steel, white fascia and charcoal frames



REAR / SERVICE PERSPECTIVE

Warm-grey corrugated steel, white fascia and charcoal frames

ROOF: Flat container-style corrugated steel roof with level perimeter rails; concealed drainage falls coordinated during detailing.

Concept images illustrate materials and roof form. Exact opening sizes and positions, stairs and circulation follow the approved measured plans.

EXTERIOR / ROOF & CLADDING

The same design. Every side.

Revised corrugated steel construction and roof profile. Measured plans control the openings.



LEFT / END PERSPECTIVE

Warm-grey corrugated steel, white fascia and charcoal frames



RIGHT / END PERSPECTIVE

Warm-grey corrugated steel, white fascia and charcoal frames

ROOF: Flat container-style corrugated steel roof with level perimeter rails; concealed drainage falls coordinated during detailing.

Concept images illustrate materials and roof form. Exact opening sizes and positions, stairs and circulation follow the approved measured plans.

MATERIALS / INDIVIDUAL DESIGN

Corrugated steel. Defined roof form.

Roof and wall specification revised to match the selected building width.

Building	Grey Learning Studio / 12 x 40 ft
Floor area	480 sq ft enclosed
Exterior walls	Deep vertical shipping-container-style corrugated steel cladding with visible steel corner posts and top/bottom perimeter rails.
Roof profile	Flat container-style corrugated steel roof with level perimeter rails; concealed drainage falls coordinated during detailing.
Exterior palette	Warm-grey corrugated steel, white fascia and charcoal frames.
Structure / enclosure	Fabricated or joined steel modules with insulation, weatherproof flashings and engineered supports and connections.
Openings / services	Room access, kitchen and washroom positions, window sizes and furniture follow the approved plans and opening schedule.
Delivery / installation	Transport route, crane access, anchoring, water, drainage and electrical connections coordinated for the site.

Concept specification. Final roof falls, support sizes, waterproofing and drainage are coordinated before fabrication. Complete material standards follow.

04 / CLIENT MATERIAL STANDARD

Materials. As specified by Zaka.

Complete client-supplied specification / part 1 of 5. Selection and inclusion follow the approved quotation.

01. SHIPPING CONTAINER

Material: Original Shipping Container / Corten Steel Container

Construction: Heavy-Duty Corrugated Steel Structure

Body: Weather-resistant Corten Steel

Floor: Original Container Flooring, where specified

Doors: Original/Modified Container Steel Doors

Corner Posts: Heavy-Duty Original Container Corner Castings & Posts

Protection: Anti-Rust Primer & Protective Paint Coating

Application: Offices, Rooms, Homes, Stores, Site Offices, Cafés, Restaurants, Guard Rooms,

Control Rooms and Customized Structures.

02. PREFAB SANDWICH PANEL

Type: Insulated Prefabricated Sandwich Panel

Standard Thickness: 2" (50 mm)

Application: Walls & Roof

Construction: Insulated Core with Protective Metal Sheets

Properties: Thermal Insulation, Heat Resistance, Moisture Resistance and Weather Resistance

Surface: Smooth & Ready for Finishing

Installation: Interlocking / Properly Fixed Panel System

Application: Offices, Classrooms, Homes, Kitchens, Stores, Cabins and Commercial Units.

03. GI U-SECTION

Material: Galvanized Iron (GI) Steel

Standard Gauge: 18 / 20 SWG according to project requirement

Type: U-Section Profile

Finish: Galvanized / Corrosion Resistant

Application: Sandwich panel framing, joining, partition framing and structural support

Properties: Lightweight, Durable, Corrosion Resistant and Easy to Install.

04. FIBER CEMENT BOARD

Product: Fiber Cement Board / Cement Board

Country of Origin: Sri Lanka

Standard Sheet Size: 4' x 8'

Available Thickness: 6 mm / 8 mm / 9 mm / 12 mm according to requirement

Composition: Cement, Cellulose/Reinforcing Fibers and Mineral Components

Surface: Smooth & Suitable for Paint / Tile Finishing

Water Resistance: Water & Moisture Resistant

Fire Performance: Fire Resistant / Non-Combustible, subject to manufacturer's certified rating

Termite Resistance: Termite Resistant

Fungus Resistance: Resistant to Fungus & Mould

Rot Resistance: Rot Resistant

Dimensional Stability: Resistant to Warping and Swelling

Durability: High Strength & Long Service Life

Applications: Interior Walls, Exterior Walls, Partitions, Ceilings, Bathrooms, Kitchens, Wet Areas and Prefabricated Structures.

04 / CLIENT MATERIAL STANDARD

Materials. As specified by Zaka.

Complete client-supplied specification / part 2 of 5. Selection and inclusion follow the approved quotation.

05. GLASS WOOL INSULATION

Material: Glass Wool Thermal & Acoustic Insulation

Application: Walls & Roof

Purpose: Heat Insulation & Sound Reduction

Properties: Thermal Insulation, Acoustic Performance and Lightweight Construction

Installation: Installed within wall/roof cavity as per project design

Application: Offices, Homes, Classrooms, Control Rooms, Server Rooms and Commercial Structures.

06. MS STEEL PIPE / STRUCTURAL FRAME

Material: Mild Steel (MS)

Type: Square / Rectangular / Round Pipe

Gauge: According to structural and project requirements

Application: Main structure, roof framing, floor framing, supports and cross members

Properties: High Strength, Durable, Weldable and Suitable for Heavy-Duty Fabrication

Protection: Anti-Rust Primer & Paint Coating.

07. ALUMINIUM WINDOWS

Frame: Aluminium Profile

Type: Sliding / Fixed / Openable

Glass: Clear / Toughened / Other glass according to requirement

Hardware: Handles, Rollers, Locks & Necessary Accessories

Properties: Lightweight, Corrosion Resistant, Durable and Low Maintenance

Application: Offices, Homes, Classrooms, Cabins, Kitchens and Commercial Units.

08. ALUMINIUM DOORS

Frame: Aluminium Profile

Type: Sliding / Hinged / Full Glass Door

Glass: Clear / Toughened Glass according to requirement

Hardware: Heavy-Duty Hinges, Handles, Locks & Accessories

Properties: Durable, Corrosion Resistant, Low Maintenance and Modern Finish.

09. GLASS

Types Available: Clear Glass / Toughened Glass / Decorative Glass according to requirement

Application: Doors, Windows, Partitions, Front Elevations and Commercial Structures

Properties: Clear Visibility, Modern Appearance and Easy Maintenance

Thickness: According to design and safety requirements.

04 / CLIENT MATERIAL STANDARD

Materials. As specified by Zaka.

Complete client-supplied specification / part 3 of 5. Selection and inclusion follow the approved quotation.

10. FLOORING - TILE

Material: Ceramic / Porcelain Floor Tiles
Finish: Matt / Gloss according to requirement
Application: Offices, Homes, Kitchens, Washrooms and Commercial Units
Properties: Durable, Easy to Clean, Moisture Resistant and Suitable for Regular Use
Installation: Properly leveled surface with suitable adhesive/grouting.

11. PVC / VINYL FLOORING

Material: PVC / Vinyl Flooring
Application: Offices, Classrooms, Cabins, Homes and Commercial Spaces
Properties: Water Resistant, Easy to Clean, Durable and Low Maintenance
Finish: Available in different colors, patterns and textures according to client selection.

12. ORIGINAL CONTAINER FLOOR

Material: Original Shipping Container Floor Boards
Type: Heavy-Duty Container Flooring
Application: Container Offices, Rooms, Homes, Stores and Customized Containers
Properties: Strong, Durable and Designed for Heavy Use
Finishing: Can be covered with PVC, Vinyl, Rubber Mat or Tiles according to project requirement.

13. PVC CEILING

Material: PVC Ceiling Panels
Application: Interior Ceilings
Properties: Moisture Resistant, Easy to Clean, Lightweight and Low Maintenance
Application: Offices, Kitchens, Washrooms, Homes, Cabins and Commercial Units.

14. ELECTRICAL SYSTEM

Wiring: Quality Electrical Cables
Installation: Concealed / Duct Patti Wiring according to project design
Lighting: Indoor LED Lights & Outdoor Lights where specified
Accessories: Switches, Sockets, Power Points, Fan Points and Light Points
Protection: Distribution Board & Circuit Breakers according to electrical load
Application: Complete electrical installation according to project requirements.

15. PLUMBING SYSTEM

Water Supply: PPR / Suitable Plumbing Pipes
Drainage: PVC Drainage Pipes
Fittings: Quality Plumbing Fittings
Sanitary Items: WC, Wash Basin, Shower, Taps, Floor Drain and Accessories where specified
Application: Washrooms, Kitchens, Cafés, Homes and Commercial Units.

04 / CLIENT MATERIAL STANDARD

Materials. As specified by Zaka.

Complete client-supplied specification / part 4 of 5. Selection and inclusion follow the approved quotation.

16. KITCHEN / PANTRY

Counter: MS / Steel Structure with Suitable Countertop

Sink: Stainless Steel Kitchen Sink

Storage: Shelves / Cabinets according to design

Plumbing: Water Supply & Drainage Points

Electrical: Required Power & Appliance Points

Finish: Durable and Easy-to-Clean Surface.

17. DOORS & HARDWARE

Hardware Includes:

- Door Locks
- Handles
- Hinges
- Bolts
- Screws
- Fasteners
- Brackets
- Sealants
- Silicone
- Required Installation Accessories

Quality: Heavy-Duty & Suitable for Long-Term Use.

18. PAINT & SURFACE PROTECTION

Surface Preparation: Cleaning, Grinding & Preparation

Primer: Anti-Rust Metal Primer for Steel Structures

Coating: Quality Protective Paint

Finish: Smooth & Uniform Finish

Properties: Weather Resistant, Corrosion Protection and Improved Service Life.

19. STEEL FABRICATION

Materials: MS Pipes, GI Sections, Angles, Flat Bars, Supports & Cross Members

Process: Cutting, Welding, Grinding, Assembly & Finishing

Application: Container Modification, Prefab Structures, Roofs, Floors, Stairs, Supports and Customized Fabrication.

04 / CLIENT MATERIAL STANDARD

Materials. As specified by Zaka.

Complete client-supplied specification / part 5 of 5. Selection and inclusion follow the approved quotation.

20. GENERAL INSTALLATION & FINISHING

Our projects may include, according to the selected design and quotation:

- Material Transportation
- Loading & Unloading
- On-Site Installation
- Panel Installation
- Steel Fabrication
- Electrical Installation
- Plumbing Installation
- Door & Window Installation
- Flooring Installation
- Ceiling Installation
- Painting & Finishing
- Final Inspection & Touch-Up

QUALITY & CUSTOMIZATION

At Zaka Engineering Containers & Prefab (Pvt) Ltd, material specifications are selected according to the project's application, design, dimensions and client requirements.

Available Customizations:

- Different panel thicknesses
- Different steel gauges
- Different insulation options
- Different flooring systems
- Aluminium / Steel / Glass doors
- Aluminium windows
- Electrical & plumbing packages
- Kitchens & washrooms
- Interior partitions
- Ceiling systems
- Custom dimensions and layouts
- Special-purpose container modifications

Note: Final material thickness, gauge, brand, finish and accessories shall be as per the approved quotation, design and project requirements.

05 / MAKE IT YOURS

A clear plan for your next step.

Bring us your site and requirements. We will help develop the layout, scope, and quotation for your project.

BEFORE WE DESIGN

- 01 Intended use and number of occupants
- 02 City, site access and available footprint
- 03 Preferred room layout and finish palette
- 04 Available power, water and drainage
- 05 Budget range and desired delivery timeline

LET'S BUILD YOUR SPACE.

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REFERENCE & DESIGN NOTES

Architecture direction informed by client-assets references, then developed as an original concept. All measurements are nominal feet; wall thicknesses are not deducted. Wider modules require fabricated or joined frames. Original drawings in this catalogue are newly authored schematic interpretations, not reproductions of approved engineering drawings.