

SKYDNE



FLEX-O/H – ECH/O 01/02

EXPANDABLE CONTAINER OFFICE / HOUSE



Portable. Deployable. Practical.

SKYDNE
EH-Division
The best technology enabled products.
Volume No. 1
April 2025



The SKYDNE Foldable OFFICE ECO-01 & ECO-02 is a fully engineered, ECH-01 is ISO-compatible Office module that ships worldwide in a compact 20-ft container footprint (7 ft W × 7 ft H × 19 ft L) and ECH-02 unfolds on-site to a spacious 360 ft² dwelling (19 ft W × 7 ft H × 19 ft L) in under 120 minutes. Built with fire-retardant PIR panels and a Q235-equivalent steel frame, its manufactured entirely in India with BIS-certified materials and full global after-sales support.



ECO -02-C



FEATURE	SKYDNE FLEX-O	TYPICAL IMPORTS
DEPLOYMENT TIME	< 2 hrs	3-6 hrs
FIRE RATING	PIR B-1 (Euroclass C-s2-d0)	EPS B-3/B-2
SOLAR-READY ROOF	1 kW rails pre-installed	Optional
WARRANTY	3 yr structural + 3 yr anti-corrosion	1-2 yrs structure
SPARES	72-hr dispatch	Imported



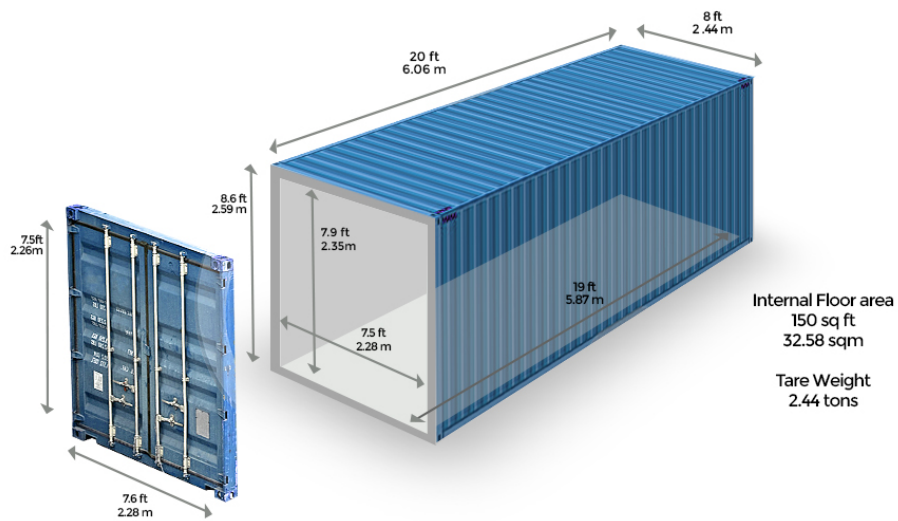
The SKYDNE Foldable Homes ECH-01 & ECH-02 is a fully engineered, ECH-01 is ISO-compatible living module that ships worldwide in a compact 20-ft container footprint (7 ft W × 7 ft H × 19 ft L) and ECH-02 unfolds on-site to a spacious 360 ft² dwelling (19 ft W × 7 ft H × 19 ft L) in under 120 minutes. Built with fire-retardant PIR panels and a Q235-equivalent steel frame, its manufactured entirely in India with BIS-certified materials and full global after-sales support.



ECH -02-C

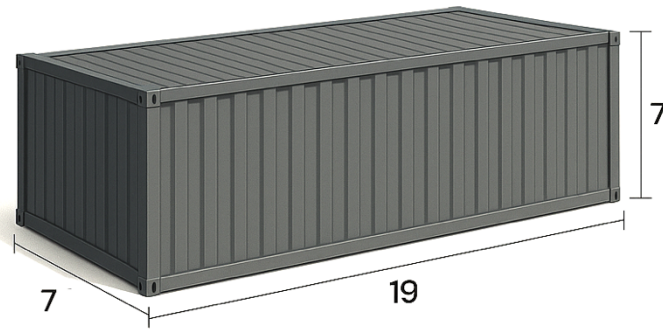


FEATURE	SKYDNE FLEX-H	TYPICAL IMPORTS
DEPLOYMENT TIME	< 2 hrs	3-6 hrs
FIRE RATING	PIR B-1 (Euroclass C-s2-d0)	EPS B-3/B-2
SOLAR-READY ROOF	1 kW rails pre-installed	Optional
WARRANTY	3 yr structural + 3 yr anti-corrosion	1-2 yrs structure
SPARES	72-hr dispatch	Imported



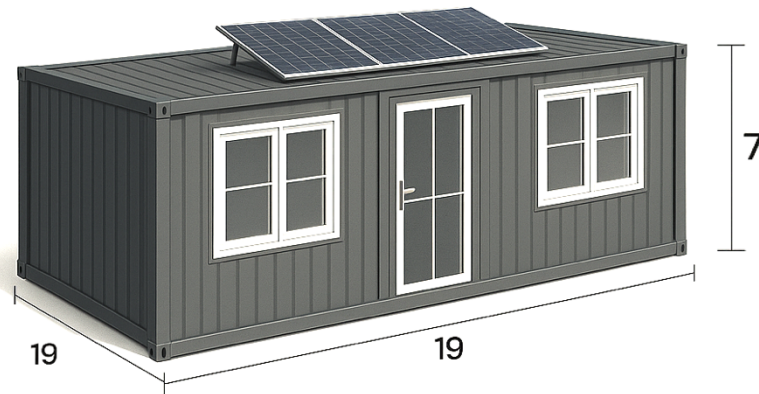
STANDARD 20 FEET CONTAINER

ECO/H -01/02(Folded)



Internal Floor area
150 sq ft
32.58 sqm
Tare Weight
2.44 tons

ECO/H -02



TECHNICAL SPECIFICATIONS

PARAMETER	FOLDED	EXPANDED
WIDTH	7 ft	19 ft
HEIGHT (CLEAR)	6 ft 6 in	6 ft 6 in
LENGTH	19 ft	19 ft
GROSS WEIGHT	4.2 t ± 10 %	4.2 t
FRAME	Cold-formed MS, 3 mm corner posts	—
EXTERNAL PANELS	50 mm PIR, 0.45 mm PPGL skin	—
FLOOR	18 mm Bison board + 3 mm vinyl	—
ROOF	1.0 mm GI + PIR + solar rail	—
WIND/SNOW	0.6 kN m ² / 1.0 kN m ²	—
ELECTRICITY	230 V 1-Φ 50 Hz; pre-wired	—
PLUMBING	CPVC hot/cold; 40 mm waste	—

FLEX - OFFICE & HOME LAYOUT

Executive Office Suite

ECO-02-01: 3-Office seater with table, WC , cabinet.



Home Studio Suite

ECH-02-Studio: Queen Bed, Kitchenette, Lounge Corner, WC



Office Conference Suite

ECO-02-02: 4-6-seater table, whiteboard wall, pantry, WC



Executive Studio Suite

ECH-02-03: Twin single rooms, shared lounge, shared bath



ECO-02-04
 One Boss Table,
 One Bathroom,
 One Assistant Table,
 One Executive Table



ECO-02-06
 Two Executive table ,
 One Discussion table,
 One Bathroom,
 One Records Table



ECO-02 Other Layout Options

ECO-02-07
 Dual Executive Table ,
 One Bathroom,
 Two Executive Tables,
 One Discussion Table



ECO-02-09
 4 Seater Discussion Table,
 One Bathroom,
 Three Executive Table,
 One Documents Cabinet



ECH-02-04

One Master Bed, One Bathroom,
One Lounge, One Kitchen



ECH-02-05

One Bed, One Bathroom,
One Dining area, One Kitchen



ECH-02-06

Two Bed, One Bathroom,
One Lounge, One Kitchen



ECH-02 Other Layout Options



ECH-02-07

Two Bed (One Master) , One Bathroom,
One Kitchen



ECH-02-08

Three Bed, One Bathroom,
One Kitchen



ECH-02-09

Three Bed, One Bathroom,
One Kitchen

MATERIALS & COMPLIANCE

Panels: PIR fire-retardant, BIS 14650/
EN 13501-1 C-s2-d0

Frame Steel: IS 2062 E350 with hot-dip
galvanised base-rails

Coatings: C4 medium anti-corrosion
epoxy + PU topcoat (10-yr)

Electrical: IS 694 copper cables, ISI
modular switches

Plumbing: ASTM D2846 CPVC; fixtures
IS 2556 compliant

Windows/Doors: UPVC
triple-rubber-seal, low-E glass



QUALITY-ASSURANCE

Dimensional tolerance check
($< \pm 3$ mm)

Water-spray intrusion test
(30 min @ 50 kPa)

1000 V megger insulation test
(≥ 2 M Ω)

kN corner lift & twist test

Factory Acceptance Certificate
before dispatch

INSTALLATION & COMMISSIONING

Place four 12 in RCC footings or precast blocks
(drawing supplied).

Land folded unit via 12-tonne crane.

Release shipping locks; unfold wings using manual
screw-jack or 24 V hydraulic kit.

Bolt roof and floor gussets (M16 8.8).

Connect external DB to mains and inlet hose to
 $\frac{1}{2}$ -inch supply.

Verify door/window alignment and run live-load
check.

Typical crew

4 technicians, hand-tools + cordless driver set.



Optional Enhancements

Solar Power Pack

1 kW mono PERC + 2 kWh LiFePO₄

IoT Smart Hub

Wi-Fi camera, door sensor, remote climate control

HVAC

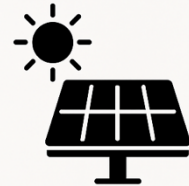
1 ton inverter split, concealed trucking

Exterior Skirt Panels

Conceal jacks and improve aesthetics

Green Roof Kit

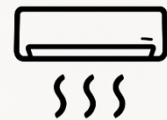
Modular planter trays for passive cooling



Solar Power Pack



IoT Smart Hub



Exterior Skirt Panels



Green Roof Kit

Warranty & Support

Structural & Frame: 3 Years against welding failure and permanent deformation.

Anti-corrosion: 3 Years on galvanized steel components.

Electrical & Plumbing: 6 Months against manufacturing defects.

Response: 48-hr email / 72-hr off-site (India) service window.

Extended warranty and AMC packages available on request.

Ordering & Lead-Time

First Article: 6-8 weeks ex-factory

Batch of 200 Units: 6-32 weeks (staggered deliveries)

Documentation provided: GA drawings, foundation layout, installation manual, QA certificates, and packing list.

ECH-01 / ECO-01 GALARY

ECH-01-01

One Bed, One Bathroom



ECO-01-01

One Executive Table, One Bathroom



ECH-01-02

One Bed, One Bathroom, One Kitchen



ECO-01-02

One Boss Table, One Bathroom, One Executive Table



ECH-01-03

One Bed, One Bathroom, One Side Storage



ECO-01-04

One Executive Table, One Bathroom, One Storage



ECO-01-03

One Executive Table, One Bathroom, One Side Storage



ECH-01-05
One Bed, One Storage



ECH-01-06
One Bed, One Bathroom, One Storage



ECH-01-07
Two Bunker Bed, One Bathroom, One Kitchen



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