

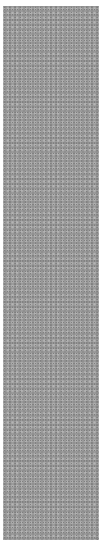


Walk on Ceiling System

Workspace redefined



NORWOOD QATAR LLC
Steel Solution

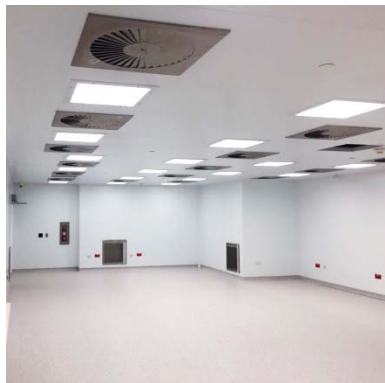


Walk on Ceiling System

Compromise isn't an option when it comes to our walk-on ceilings

Norwood design and manufacture precision walk on ceilings for cleanrooms and high specification manufacturing facilities. Walk-on ceiling panels were developed for facilities requiring full accessibility in the plenum or interstitial space. Load-bearing capabilities can be engineered for punctual loads.

Norwood's ceiling panels provide architects, engineers and interior planners with tremendous flexibility in design and conceptualization, with off-site construction minimising disruptions on site whilst guaranteeing a high quality finish to consistent tolerances. Apertures for HEPA filters, light fixtures, control devices, and other penetrations are engineered and cut in the factory, enabling the end user a large degree of future flexibility as all components are relocatable. All products are manufactured from high grade galvanised steel with an antibacterial vinyl applied to the face. Ceilings are available with integrated walk on glazing lights, offering a load capacity up to 250kg/m².



We turn shell constructions into key-ready buildings (Photo left: Cleanrooms, Qatar; middle: Cell Therapy Laboratory, Qatar; right: TB Laboratory, Qatar)

Walk on ceiling system

Construction

WALK ON CEILING SYSTEM

Tracks:
steel sections, 1.2 mm thick.

Plank span:
Up to 3000mm

Plank width:
Up to 1200mm, with makeup
planks to suit project layout

Plank thickness:
57mm

Steel frame:
Galvanized steel aperture and
channels

Ceiling facia:
Standard facia trims or according
to project specification

Internal filler:
Egg crate board.

Ceiling aperture:
1.2mm zintech channel

Joint detail:
Silicone sealant.

Plank strength:
Classification – Heavy Duty

Plank loadings:
Safe working limit of 250kg,
(0.61kN/m²) refer to test report
189792

Finish

Planks: 0.75mm thick skin with a
durable pre-coat vinyl finish

Colour

Range of plain colors, steel
finishes, timber finishes, fabric
finishes & stone finishes are
available for selection

Geometrical features

DIMENSIONS

Length: Span up to 3000 mm.
Width: Up to 1200mm with makeup
planks to suit project layout

CEILING APERTURES

These can be factory prepared, lined
and reinforced with 1.2mm zintech
channels for the site fitting of light
units, fan filters, sprinklers etc

CEILING SYSTEM

Aperture safety covers:
Purpose designed ‘safety boxes’ can be
supplied to sit on top of any aperture
preventing any potential risk of falling
through

Ceiling Aperture:
These can be factory prepared, lined &
reinforced with 1.2mm zintec channels
for the site fitting of light units, fan
filter & sprinklers etc.

Plank Support:
Planks are designed to sit on and span
from partition wall to partition wall.
Should spans be greater than 4000mm
support systems can be supplied with
the option of concealed angle brackets
at the panel joints or a ceiling support
‘T’ section with planks resting on the
‘T’ flange. In both cases M10 threaded
rod carries the support vertically
locating onto a designating point.

Plank Abutment:
Interlocking panels with as friction fit
dimple biscuit channel manufactured
from 1.2mm zintec forming a single
line connection between panel to
panel

Use

This ceiling system helps to move
freely on top of the ceilings for service
and maintenance works

Acoustics

WEIGHTED AIRBORNE SOUND REDUCTION INDEX

Standard & higher acoustics are
available depending upon the type of
Norwood partition walls and doors,
enhancement can be made
to increase the sound reduction
index, guidance can be given on
request.

Fire

Class 0 spread of flame:
BS 476-7 to class 0

In accordance with BS Test standards.

Load

Plank Loadings:
Safe working limit of 250kg,
(0.61kN/m²) refer to test report
189792

In accordance with BS 6399

TRUSS I VALUE

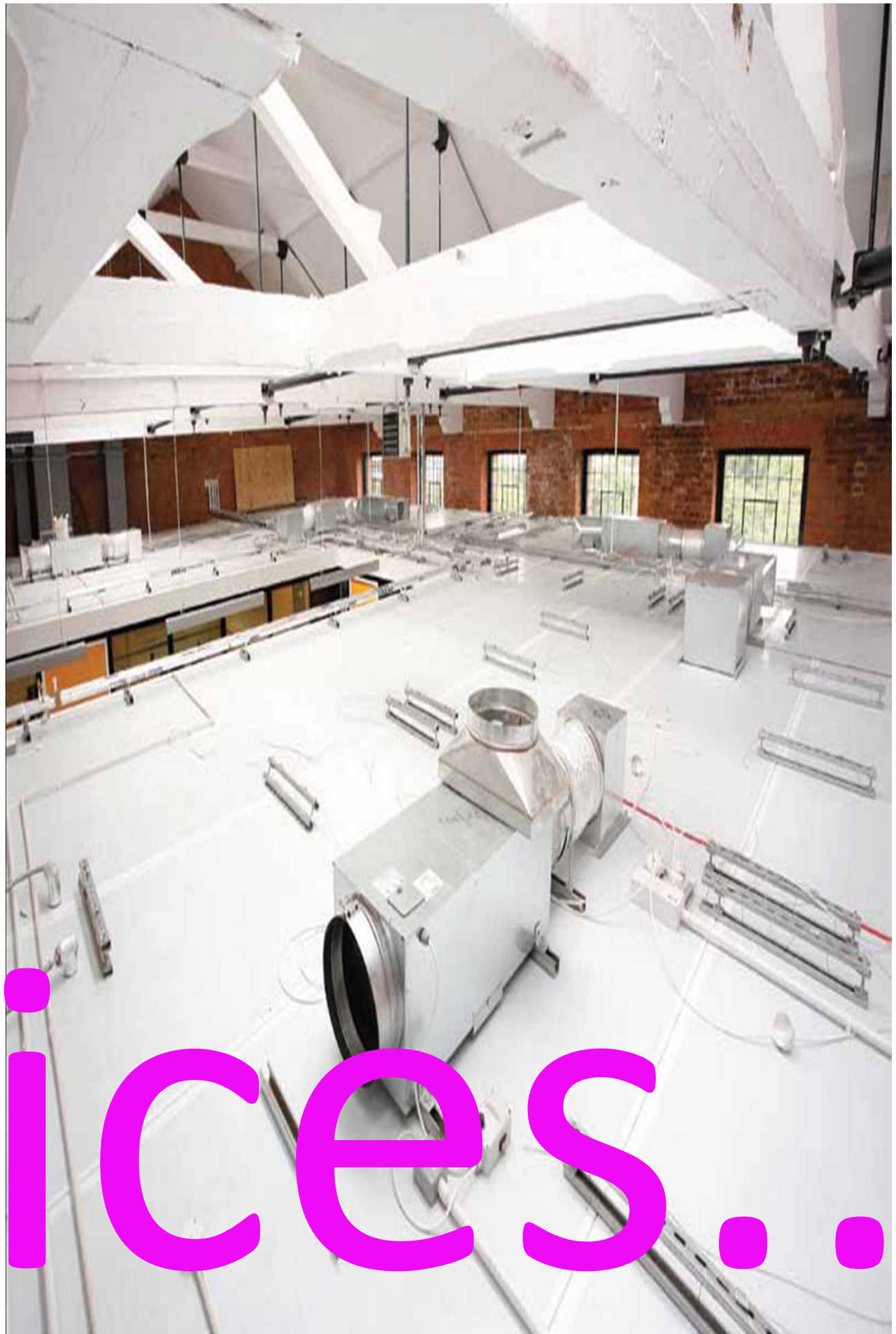
Compressive resistance P_c , Truss = $Q \times$
 $A_{top} \times p_c = 119.3kN$

Tensile resistance P_T , truss = $Q \times (A_{top}$
 $+ A_{angle}) \times p_y = 298.2 kN$

Bending Check – PASS

Shear Check - PASS







sound



absorb...

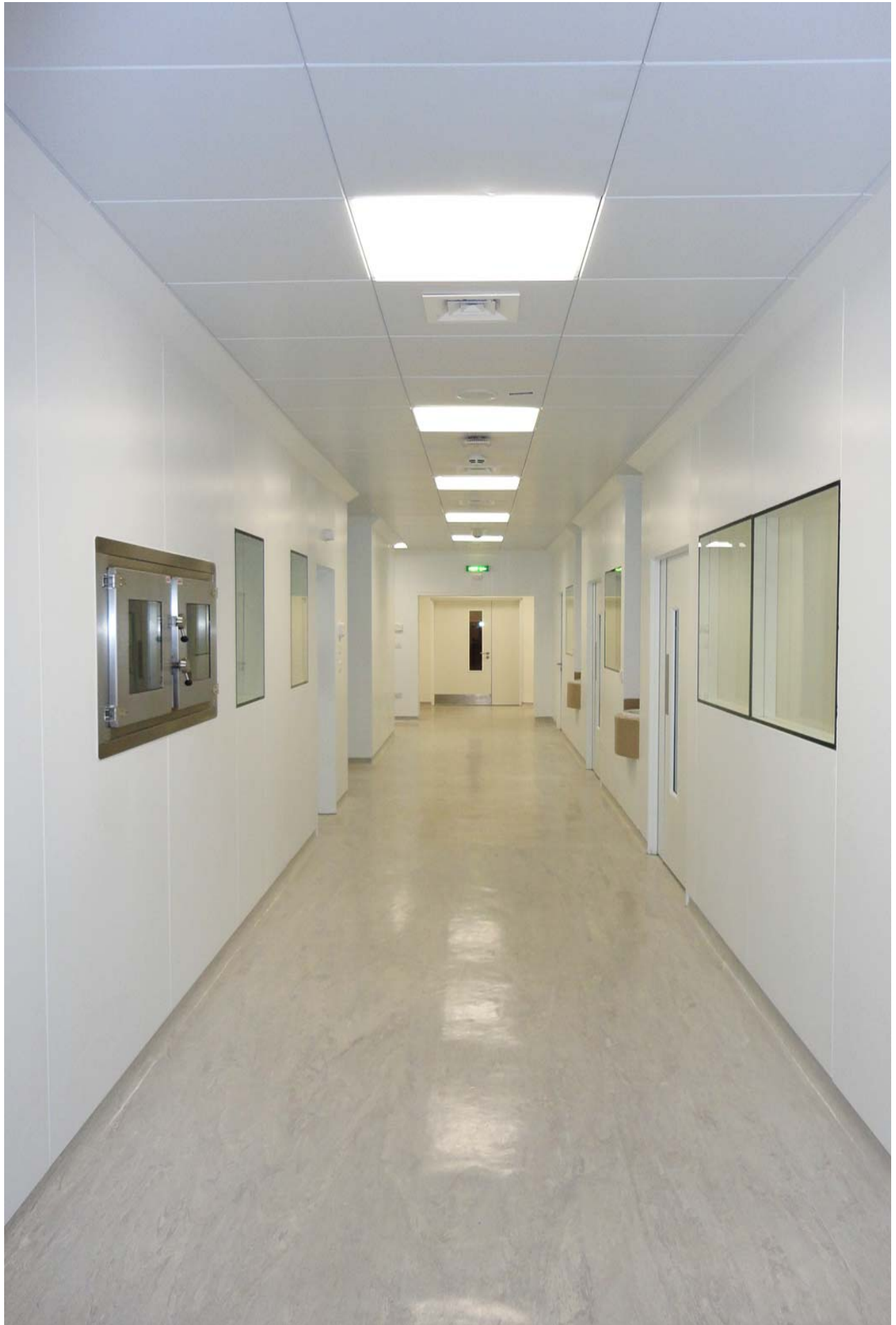
sky lights:





Cell Therapy Laboratory







TB Laboratory

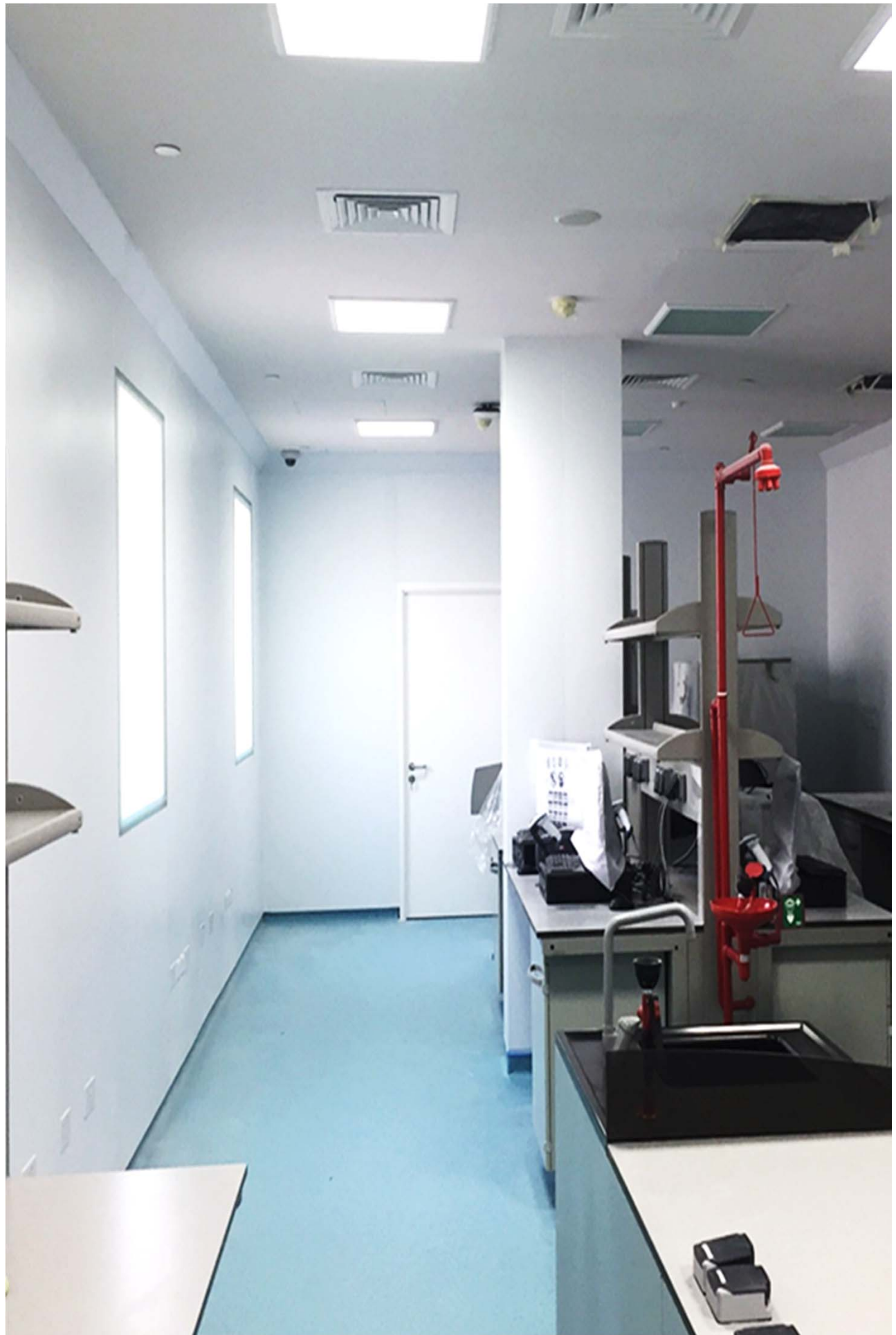




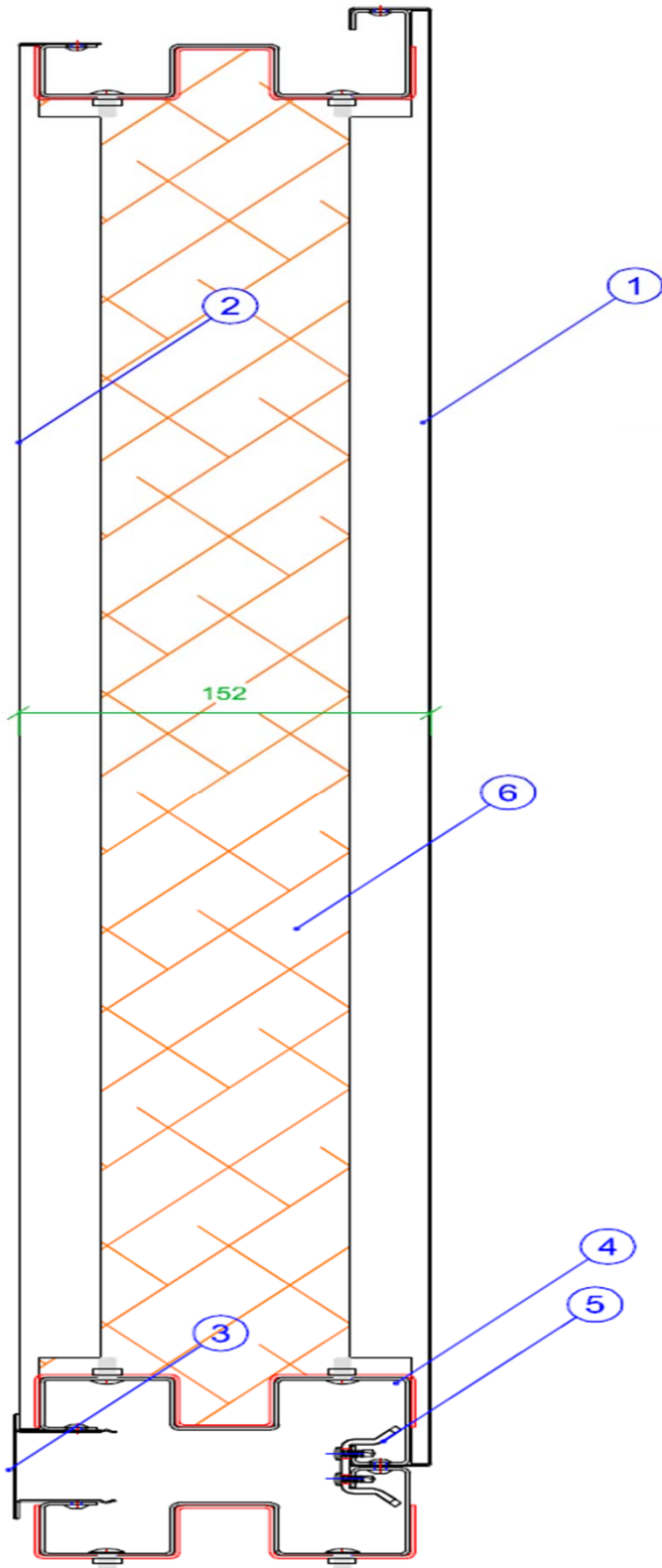


Proposed TB Unit





W.O.C. DETAILS



Walk on Ceiling Detail

- 1 Bottom Panel Skin – E.Z. vinyl coated steel
- 2 Top Panel Skin – E.Z. vinyl coated steel
- 3 Ceiling Joint Cover Channel
- 4 Ceiling Panel Side Rail
- 5 Ceiling Panel Connecting Channel
- 6 Honeycomb Paper Core

Pink Zone, Plot # 9094, PIN # 81050411, New Industrial Area, Doha, Qatar.

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