

*Manufacturer Of
Modular Cleanroom
Panels With Eco PUF,
PIR & Rockwool*



Quality Product is Our Top Priority

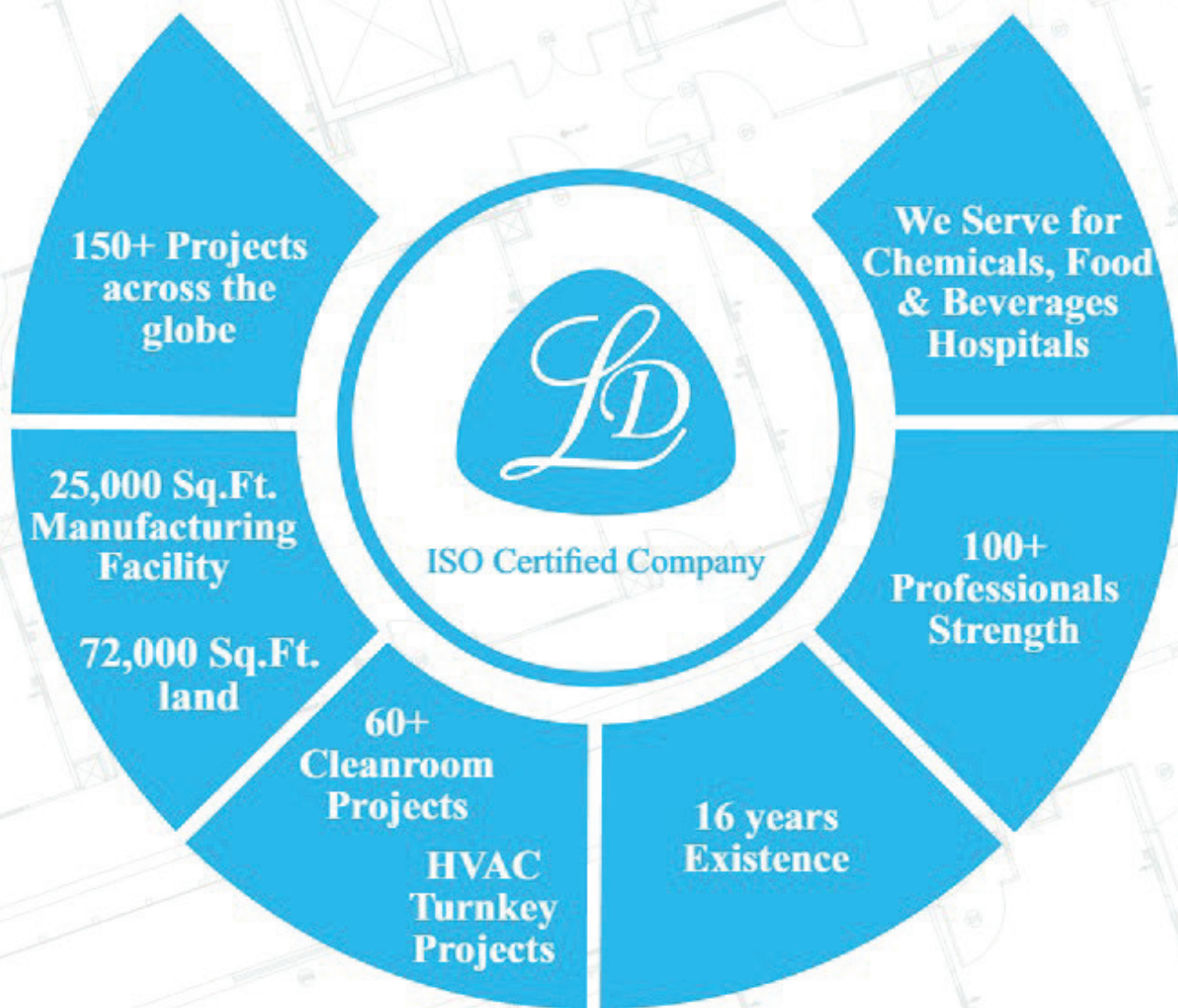


Lucky Deep Cleanroom Pvt. Ltd.

Total Cleanroom Turnkey Solutions...!

Think Green and Save Energy for a Better Tomorrow.....!

About Company



Lucky Deep Air Conditioning is a parent company of
Lucky Deep Cleanroom Pvt. Ltd.
We have done high quality projects in all over the world.

Trust Since 2007



Why Choose Us ?



Here are key reasons to count on us to keep every cleanroom as per guidelines round the year.



ISO Certified Company



Fully Licenced



In-House Design Team



Cutting Edge Design



Committed For Improvement Value Addition



Climate Control & Energy Efficiency



100+
Projects Done

60+
HVAC Turnkey Projects

22
Years Of Experience

200+
HVAC & R Design

Core Values



Commitment



Best in Class Quality



Trust, Ethical & Responsible



Customer Driven



Innovative & Collaborative



Teamwork



Our Vision

“We don’t sell products, we sell concepts & solutions”. Phrase from Lucky Deep’s founder. The vision of Lucky Deep is to be a leading provider of high-quality products at an affordable and effective cost. The company aims to deliver solutions and concepts rather than merely selling products.



Our Mission

As an Indian-based group of companies specializing in cross contamination control in HVAC Cleanroom applications, the mission of Lucky Deep is to provide comprehensive solutions and services to ensure clean and controlled environments in various industries such as pharmaceuticals, biotechnology, healthcare, electronics, and other sensitive sectors.

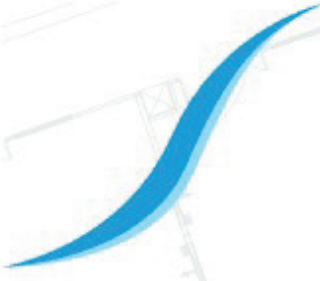


Sales Stage



Execution Stage





Industries We Serve



Pharmaceuticals



Nutraceuticals



Biotechnology



Life Science



Labarotaries



Healthcare



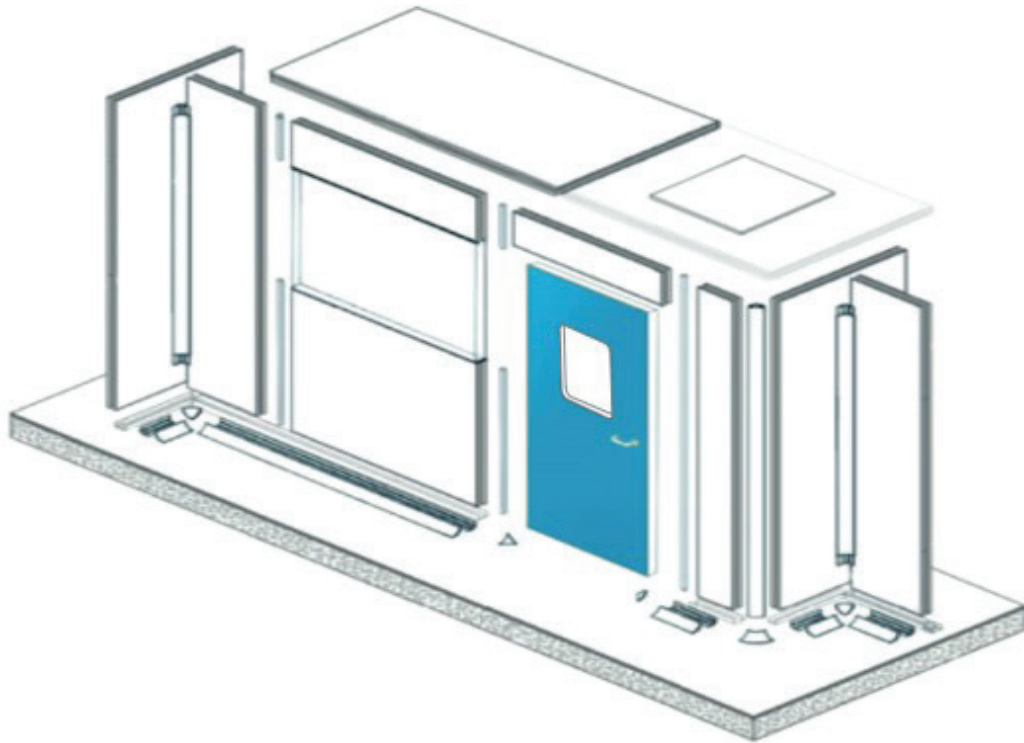
Food Processing



Cosmetics



Progressive & Non-Progressive Panels



WALL PANELS

35/50/80/100 mm thickness with
1.0/0.8/0.6/0.5 mm thick sheet

CEILING PANELS

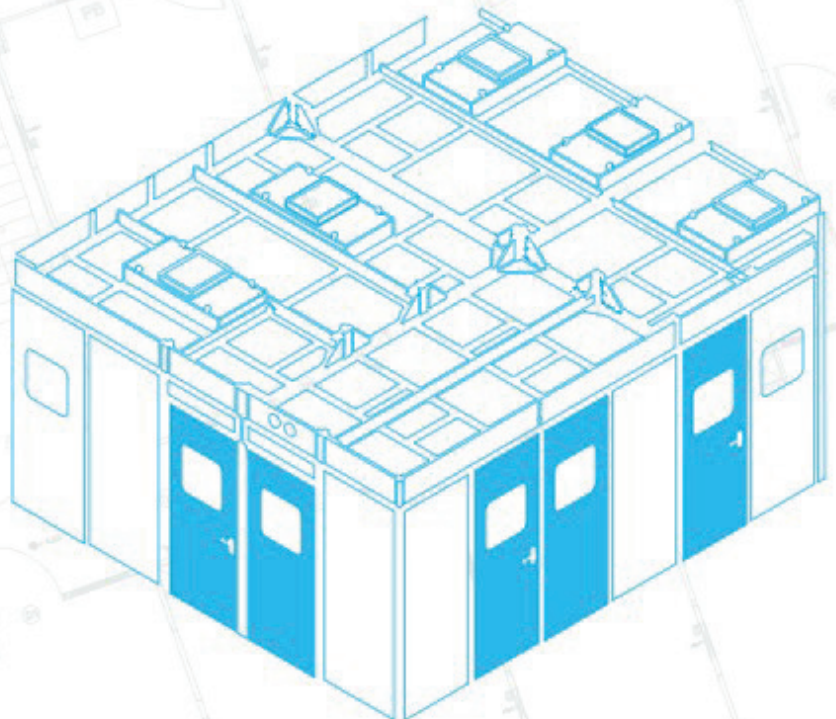
35/50/80/100 mm thickness with
1.0/0.8/0.6/0.5 mm thick sheet

MODULAR INBUILT RISER

80/100 mm thickness with
1.0/0.8/0.6/0.5 mm

CURVE VIEW PANELS

35/50/80/100 mm thickness with
1.0/0.8/0.6/0.5 mm



Wall Panels



- ▶ Skin-PCGI, PPGI & SS
(Can be any two combination)
- ▶ Structural framework-GI
- ▶ Thickness of Sheet -0.5, 0.6 & 0.8 mm
- ▶ Thickness of Powder Coating - 60-80 microns,
- ▶ Thickness of Pre coating-30-35 microns
- ▶ Insulation - PUF density 40 ± 2 kg/m³, PIR density 48 ± 2 kg/m³
- ▶ ROCKWOOL density 96 kg/m³ & 144 kg/m³
- ▶ Sealant-Food grade silicon on both sides of the panels. Gap should not be more than 4 mm.
- ▶ Dimensions - Width - 1200 mm or as per room layout
- ▶ Height-As per Layout
- ▶ Panel thickness-35, 50, 80, 100 mm
- ▶ Support Powder coated Base runners with self supported panels with interconnecting profiles.
- ▶ Colour - RAL 9002 std. colour & any other colour can be provided from the RAL chart.
- ▶ Panel type-Progressive & Non progressive.



Ceiling Panel



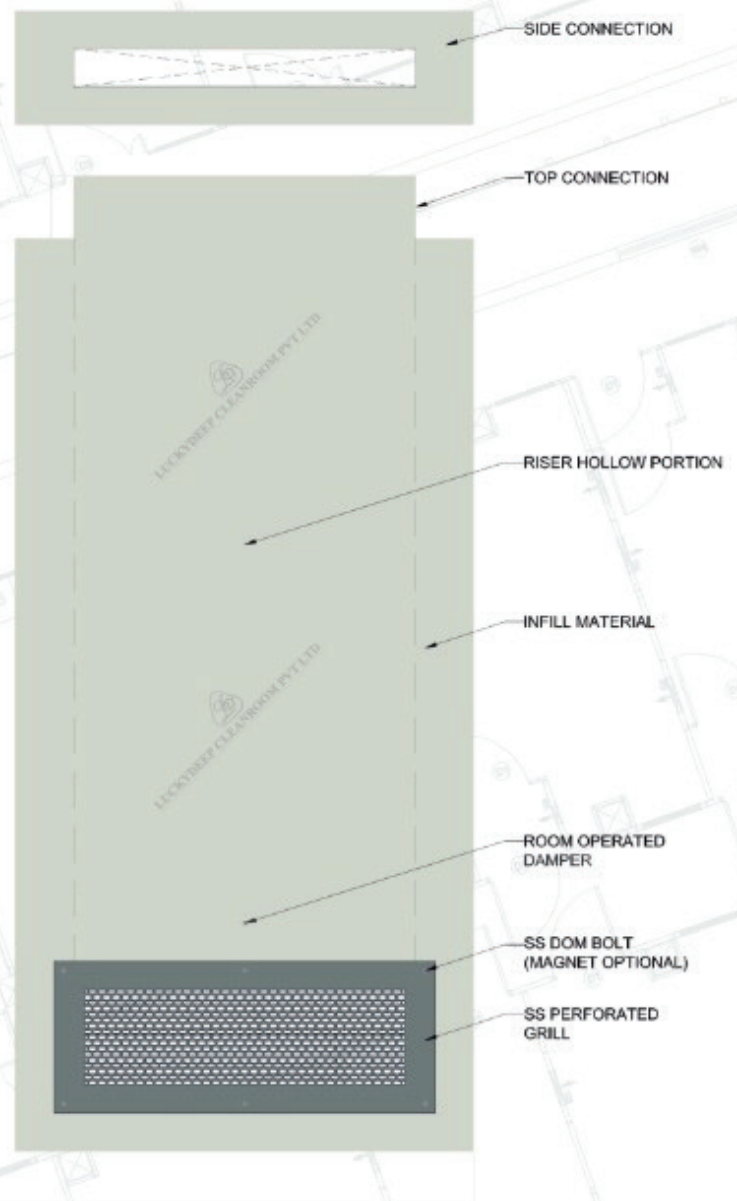
- ▶ Technical description - Walk on / Non walk on ceiling panel made out of powder coating GI/Pre painted GI / stainless steel sheets on both side and inside filled with infill of specified thickness along with peripheral G.I. profile. panels will be in the form of planks of 1200 mm width and length as per the drawing
- ▶ Skin-PCGI / PCGI (GPSP), PPGI / PPGI & SS
- ▶ Structural framework - GI & Thickness of Sheet - 0.5, 0.6 & 0.8 mm
- ▶ Thickness of Powder Coating 60-80 micron, Thickness of Pre coating 30-35 microns
- ▶ Insulation - PUF density 40 ± 2 kg / m³, PIR density 48 ± 2 kg/m³
- ▶ ROCKWOOL density 96 kg /m³ to 144 kg/m³
- ▶ Sealant - Food grade silicon on both sides of the panels.
- ▶ Gap should not be more than 4 mm.
- ▶ Dimensions-Width - 1200 mm & Height - as per layout
- ▶ Panel thickness - 35 mm, 50 mm, 80 mm & 100 mm Thick
- ▶ Load carrying capacity-75 to 250 kg per sqm.
- ▶ Support-Wall panels and suspension rods.
- ▶ Colour-RAL 9002 std colour & any other colour can be provided from the RAL chart.
- ▶ Cutout provision for HVAC & Electrical-Cutout can be provided with C type flashing.
- ▶ Hanging arrangement - Panel will be hang with suspension rod, with adjustable turnbuckle & will be anchor fastened in slab



Modular Insulated Risers



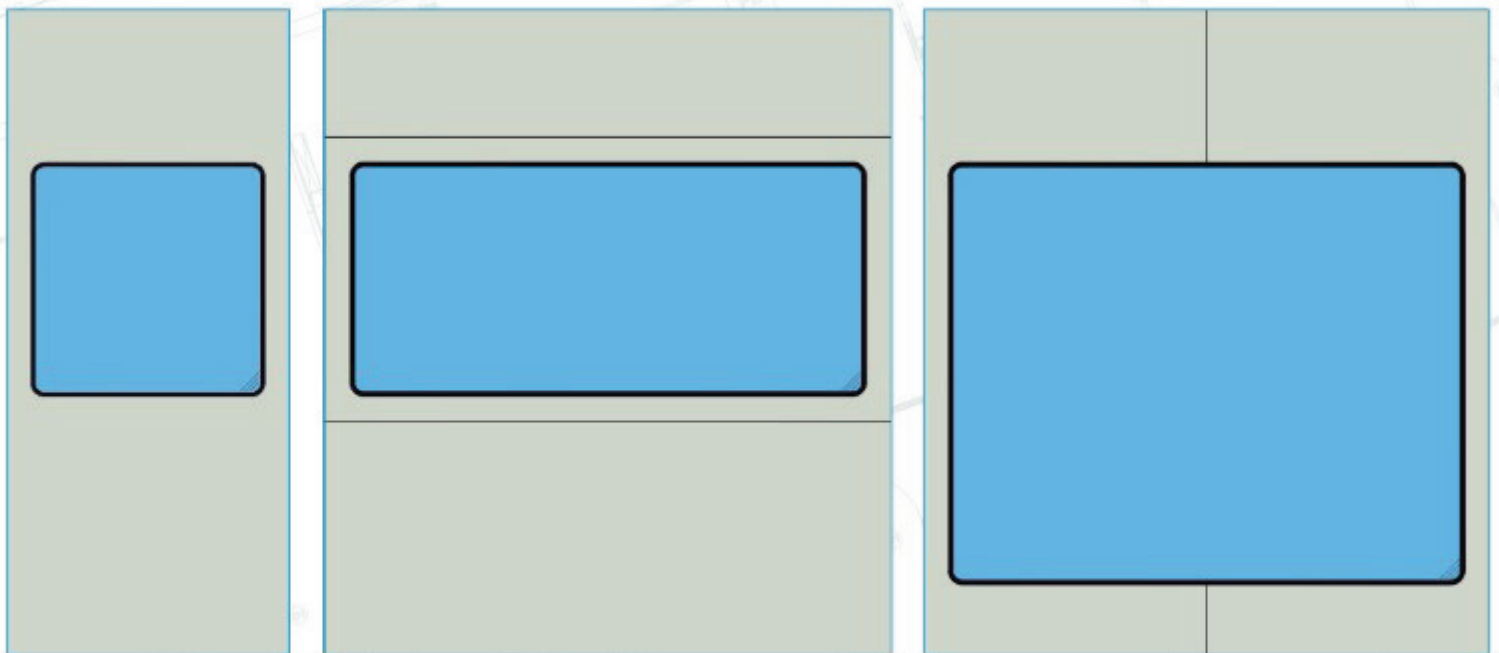
- ▶ Technical description - Flush riser duct panels with long projecting neck for connection with flange for HVAC duct connection. (With 10 micron filter) Inclusive of removable perforated grill fixed at 150 or 200 mm above Ceiling in riser panel with dome bolt arrangement (Sizes as per BOQ) & inbuilt dampers.
- ▶ Skin-PPGI, PCGI & SS
- ▶ Structural frame work & Internal stiffeners - GI
- ▶ Thickness of Sheet-0.8 mm
- ▶ Thickness of powder coating - 60-80 micron, Pre coating-30-35 microns
- ▶ Riser thickness - 80 mm, 100 mm & 150 mm Thick
- ▶ Extension on top-150 to 200 mm.
- ▶ Grills type & MOC -Capsule perforated with dome bolt / magnet/wing bolt fixing & SS/Power coatings. Grill thickness - 1.2mm thick.
- ▶ Dampers-Extruded aluminium coated low leakage volume control damper & top operated arrangement.
- ▶ Pre-filters - Box type filter of 10 microns(G4) 20mm thick, MOC- synthetic non woven media with Extruded aluminium frame, efficiency-as per EN779 down to 10 microns pressure drop across filter-4 mm Wg & allowable pressure drop – 10 mm wg.



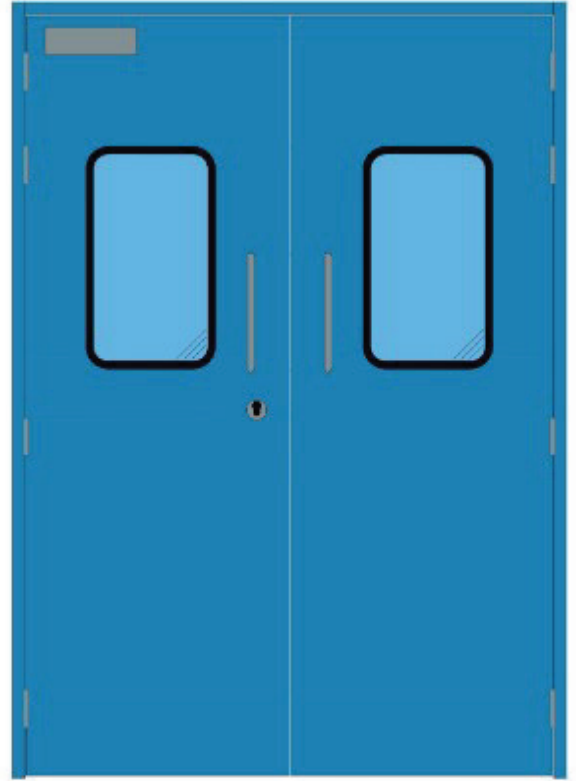
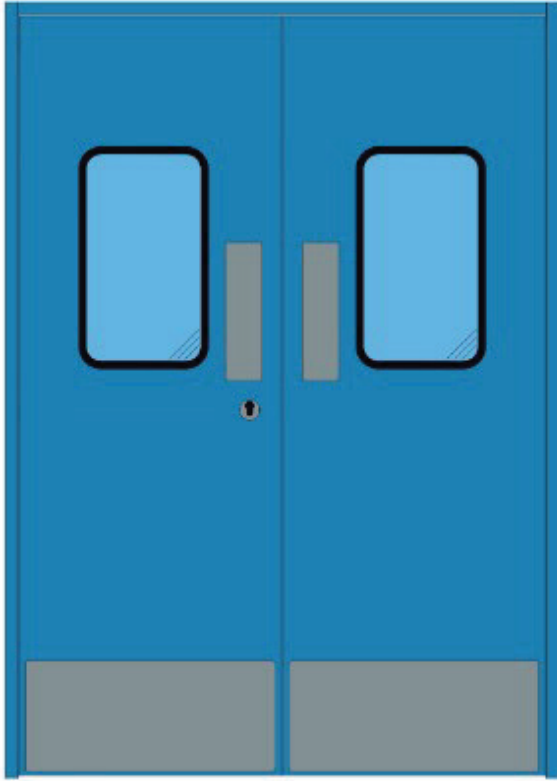
View Panels



- ▶ **Technical description** — Supply and Installation of double glass 6mm thick view panel flush from both side of wall fixed with both side adhesive tape over GI frame width to match wall thickness with silica gel desiccant arrangement and made air tight with sealant.
- ▶ **Material of construction** — Extruded aluminium profiles & Powder coated GI.
- ▶ **Dimension** - view panel glass size - depends on the size of each view panels.
- ▶ **Glass thickness & type** - Toughened & 6mm thick.
- ▶ **Border**-20 mm black border ceramic paint.
- ▶ **Tape**-Both side adhesive or 3M tape.
- ▶ **Silicone** – All four side will be filled with sealants to maintain uniformity.
- ▶ **Desiccant material** — Silica gel provided inside the provide to absorb moisture.
- ▶ **Type** - Single glass/both side glass, break open panels, civil windows & full glass panels.



Pharma Cleanroom Doors



SINGLE LEAF DOORS

DOUBLE LEAF DOORS

FOUR LEAF DOORS

HATCH SINGLE LEAF DOORS

HATCH
DOUBLE LEAF DOORS

EMERGENCY
SINGLE LEAF DOORS

EMERGENCY
DOUBLE LEAF DOORS

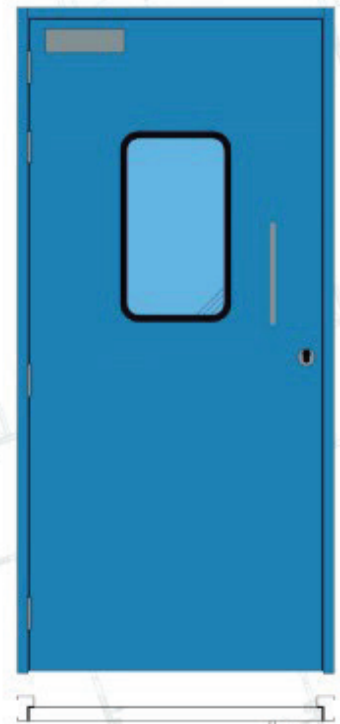
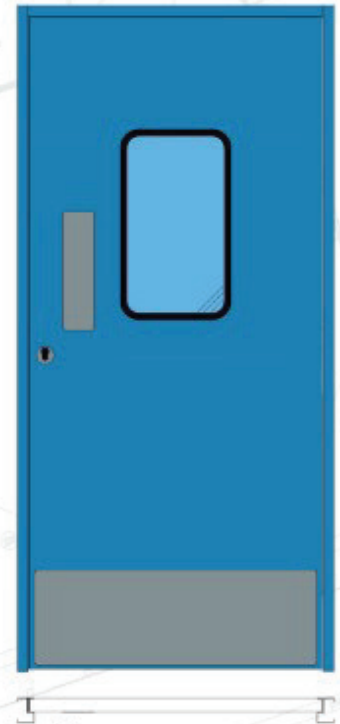
2 HOURS
FIRE RATING DOORS



Cleanroom Doors



- ▶ Description - Double skin door with or without view panels, with the construction same as modular panels assembled with the door profile.
- ▶ Material of construction - GPSP GI Sheet (0.8 mm thick) & Frame (1.2 mm thick) & for fire rating doors GPSP GI Sheet (1.2 mm thick) & Frame (1.6 mm thick).
- ▶ Shutter-42/44/46 mm thick
- ▶ Paint / Finish used - Powder coated & Stainless steel.
- ▶ Thickness of Powder Coating-60-80 micron
- ▶ Sizes-Thickness- 50mm, 80mm, 100mm & 150mm Frame Thickness.
- ▶ Width 750, 900,1000,1200,1500,1800,2000,2200 mm
- ▶ Height 2100/2200 mm & customised sizes available.
- ▶ Door Accessories - Stainless steel hinges 3-4 nos. per door, Stainless Steel 'D' type handles on the pull side of 20 mm dia. with 300 mm long, Stainless steel push plate on push side size 125 x 300 mm, Dorma make door closure std arm (TS - 68)
- ▶ both side key operated, locking arrangement, automatic door bottom seal at the bottom, view panel with 6 mm thick safety glass, panic bar for emergency door, flush tower bolt in double door, stainless steel kick plate of 300 mm height & door interlocking provision.
- ▶ Filler material-PUF 40 ± 2 kg/m³ /PIR $48+2$ kg/m³ /ROCKWOOL 96 ± 2 kg/m³.



ROCKWOOL PANELS & DOORS WITH LAMELLA BATTS

Applications

TUFFINSUL Lamella is used for thermal and acoustic insulation where high compressive strength is required. It is commonly used in heavy loaded sandwich panels.

Performance

Working Temperature Product: Up to 750 °C

At temperatures in excess of 230 °C a limited migration of binder may occur in the insulation in contact with the hot face. This does not impair the insulation performance.

Compression Strength of Lamella

Density (kg / m ²)	Thickness (mm)	Minimum compressive strength at 10% Deformation (kPa)
100	50	105
140	50	115
144	50	130
144	100	142

Thermal Resistance (R value)

		Thermal Resistances at 25°C Mean temperature					
		M ² k/w			Ft ² .h.°F/ Btu		
mm	inch	BR36	BR48	BR64	BR36	BR48	BR64
40	1.50	-	-	1.212	-	-	6.556
50	2.00	-	1.429	1.515	-	8.230	8.741
60	2.50	-	1.714	1.818	-	10.288	10.926
75	3.00	1.923	2.143	2.273	11.111	12.346	13.112
100	4.00	2.564	2.857	3.030	14.815	16.461	17.482

Thermal Conductivity (K value)

Mean Temperature		Thermal Conductivity for the following densities					
		W / m.k			Btu.in / ft ² .h.F		
°C	°F	36 kg/64 kg/m ³	48 kg/m ³	64 kg/m ³	2.250 lb/ft ³	3.000 lb/ft ³	4.000 lb/ft ³
10	50	0.036	0.033	0.031	0.250	0.229	0.215
25	77	0.039	0.035	0.033	0.270	0.243	0.229
50	122	0.047	0.042	0.038	0.326	0.291	0.263
100	212	0.057	0.051	0.046	0.395	0.354	0.319

Technical Data

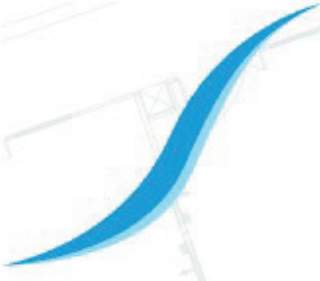


TECHNICAL DATA SHEET OF PUF PANELS

Insulation - Properties

S MM	K K.cal / m ² -h	U W / m ² - k	R W / m ² -k	Temperature Deg.
30	0.45	0.59	2.00	>10
40	0.40	0.51	2.20	>8
50	0.34	0.43	2.78	>8
60	0.29	0.36	2.94	>0
80	0.22	0.26	3.26	> - 20
100	0.18	0.30	4.16	> - 25

- ▶▶ Lambda value : 0.22 W/mK
- ▶▶ Compressive Strength: 0.1-0.3N/mm² (IS-11239)
- ▶▶ Adhesion: 0.1- 0.5 N/mm²
- ▶▶ Water Absorption, Vapour Permeability & Dim- Stability: per IS-11239
- ▶▶ Fire Rating: B-3-Din-4102/BS-4735 Self Ext.
- ▶▶ Temp Range: -60 to 100°C
- ▶▶ Density: 40 + 2 kgs/m³ Tensile
- ▶▶ Strength: 4 kgs/cm² (ISO-1926)



Gallery



Clientele





Lucky Deep Cleanroom Pvt. Ltd.

*Total Cleanroom Solutions.....!
Think Green and Save Energy for a Better Tomorrow.....!*

*Save Earth.
Save Life.....!*



Thanks & Regards

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🌐 <http://www.luckydeep.com>