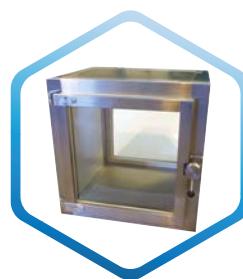


**Guardtech**  
cleanrooms



THE  
**CLEANROOM**  
**CATALOGUE**



033 011 30303  
[guardtech.com](http://guardtech.com)



Guardtech Cleanrooms are an Industry leading provider of custom Cleanrooms; designing and delivering complete controlled environments for the Life Science and Microelectronics industries throughout Europe.

Offering turnkey solutions for clients looking to create, improve, upgrade or relocate a critical environment. Providing expert advice based on a varied portfolio of Cleanroom projects, Guardtech excel in working with your specification as well as your limitations, to produce Cleanrooms that exceed your expectations not your budget.

With In-house Designers, full-time specialist Installation Engineers and dedicated Project Managers, Guardtech are the perfect partner to deliver your Cleanroom project on-time and on-budget.

With unrivalled industry knowledge, specially trained staff and a fully validated supply chain, Guardtech are tried and trusted by the best in the business.

Guardtech design and install bespoke controlled environments for Industries including: Pharmaceutical, Electronics, Semiconductor, Aerospace, Automotive, Healthcare, Medical Device, Optical, Food & Education



# PAGE CONTENTS

<b>CLEANROOM DESIGN</b>	<b>PAGE 4</b>
<b>CLEANROOM CONSTRUCTION/INSTALLATION</b>	<b>PAGE 5</b>
<b>SERVICE, MAINTENANCE &amp; INSTALLATION</b>	<b>PAGE 6</b>
<b>CHANGING ROOM FURNITURE</b>	<b>PAGE 8</b>
<b>CLEANROOM FURNITURE</b>	<b>PAGE 25</b>
<b>CLEANROOM EQUIPMENT</b>	<b>PAGE 36</b>
<b>ISOPOD: HARDWALL &amp; SOFTWALL MODULAR CLEANROOMS</b>	<b>PAGE 46</b>



# CLEANROOM DESIGN

Guardtech believe that excellent Cleanroom Design centres around the balance of the following 5 key factors:

- PROCESS REQUIREMENT
- SPACE OPTIMISATION
- BUDGET MAXIMISATION
- TIME LIMITATIONS
- CLIENT DESIRES

Guardtech focus on providing exceptional value, accommodating the boundaries and restrictions of every project to provide clients with the best possible outcome; a controlled environment that meets all needs and exceeds expectations.

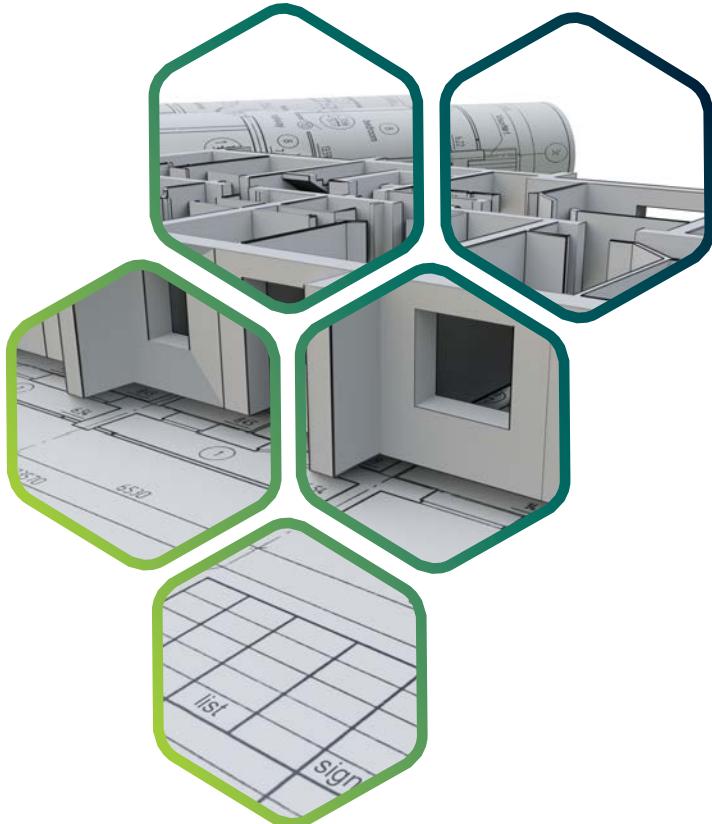


## DESIGN PROCESS

Whether working towards ISO14644 classification or GMP compliance, Guardtech provide tailored solutions that facilitate efficient personnel, product and process flow whilst delivering against the relevant standards, balancing budget and specification. Drawing on 20 years of experience Guardtech deliver a Cleanroom design that meets process demands, whilst enhancing facility aesthetics and providing a compliant, comfortable working environment for operators.

No matter what size the project, Guardtech conduct an initial site survey and consultation to clarify and understand client requirements in full; good design is built on good understanding, and this only comes from face-to-face consultation.

From initial survey Guardtech prepare a full detailed proposal and preliminary concept designs, these form the basis of the estimation process, and are reviewed and revised until the client is happy to sign off.



## DESIGN PACKAGE

2D Drawing Package include:

- Dimensioned Structural Room Layout
- Mechanical & Electrical Layouts
- HVAC & Filtration Schematics
- Furniture & Equipment Layout
- Lighting Layout & Calculations
- Elevations

- Functional Design Specification
- Room Data Sheets & Electrical Register
- 3D Model with 360 degree Panoramic View
- High Quality Concept Renders
- 3D Virtual Walk Through Animation
- CFD - Airflow Visualisation
- DQ -Design Qualification Documentation

# CLEANROOM CONSTRUCTION

Guardtech cleanroom installation engineers are professionally trained in controlled environment construction and have years of experience, not only installing critical environments but also servicing and operating within them. With an in-house structural and electrical team, utilising the Guardtech Installation Engineers offers far tighter control of the project combined with a quicker and more consistent installation whilst presenting substantial cost savings.

## STRUCTURAL

- Installation of Modular Panels, Ceilings, Doors, Glazing, Cladding, Coving, Mezzanines
- Vinyl Floor Laying, Furniture Installation, Silicone Sealing

## MECHANICAL & ELECTRICAL (M&E)

Guardtech coordinate all aspects of your Cleanroom build, including the implementation of all services. With an in-house Electrical Division most M&E services are conducted by the Guardtech Team, supported by some long term partners for specialist services. Guardtech can include the following M&E services to their scope of works for any project:

- **ELECTRICAL:** Lighting, Small Power & 3Phase, Data Installations, Plant Connections & Door Interlock Systems
- **HVAC & FILTRATION:** From full scale bespoke Air Handling Units to Upflow units and small Split Systems including all Ductwork
- **GAS SERVICES:** Process Gases, Compressed Air & Extraction including all Pipe/Ductwork and ring mains
- **MONITORING:** Fully Networked Environmental Monitoring System with IT integration with CFR21 compliance, Building management Systems
- **WATER:** Purified and Process Hot Water, Drainage, Plumbing Connections

## GUARDTECH BENCHMARK

- Dedicated Installation Team, Nationwide Coverage
- Onsite Project Co-ordination & Weekly Project Reviews
- Dedicated Project Manager & Account Manager
- Minimal disruption to your facility and business
- Friendly & Flexible Team, Client Focussed



From 10m<sup>2</sup> modular cleanrooms to 10,000m<sup>2</sup> turnkey construction projects, Guardtech work across the spectrum, bringing the same enthusiasm and knowledge to each and every project, advising from experience and following a tried, tested and ever evolving process.

# CLEANROOM MAINTENANCE

From commissioning a newly built Cleanroom to ongoing servicing, maintenance, testing and validation, the Guardtech Service Department are on hand to support ongoing compliance in all GMP and ISO14644 classified environments. Providing bespoke maintenance packages and covering the following activities:

- **INSTALLATION QUALIFICATION (IQ)**
- **OPERATIONAL QUALIFICATION (OQ) & COMMISSIONING**
- **VALIDATION & TESTING**
- **CLEANING & DECONTAMINATION**
- **PLANT MAINTENANCE & SERVICING**

All work conducted is followed by detailed reporting in line with ISO standards and GMP guidelines ensuring client facilities are audit ready and compliant with the requirements of regulatory bodies.



## CLEANING: CRITICAL CONTROL TEAM

Offering a range of one off post-build or pre-validation cleans, to quarterly, monthly, weekly or daily cleans the Guardtech Critical Control Team are specialised in restoring control to your critical environment. From industrial 'Builders Clean' to remove visible dust, fibres and large particulate to 'Microbiological Cleans' to eliminate bio-burden, spores and bacteria. Followed by in-depth reporting and testing to prove efficacy.

## MAINTENANCE

Carrying out routine maintenance and repairs nationwide, the Guardtech Service Department can support clients with planned servicing and emergency call-outs for the following:

- Filter Replacements
- HVAC/ Air Conditioning Equipment
- Compressors & Generators
- Separative Devices such as LAF booths etc.

## TESTING PROCEDURES

- Airborne Particle Counting
- Airflow Balancing
- Air Velocity
- Airflow Visualisation
- Cleanliness Recovery
- Filter Integrity (Previously DOP)
- Lighting Levels
- Temperature monitoring
- Pressure and flow gauge calibration
- Sound Level Checks
- Volumetric flow rate measurement
- Room differential pressure testing



# GUARDTECH AT A GLANCE

Guardtech Cleanrooms Ltd historically was a division of Guardline Technology Ltd, a company established in 1981 to service the Life Science Industries with a wide variety of Cleanroom products and services. Guardtech is founded on the principle of client partnership and knowledge sharing and as such today they offer a range of services and products designed to provide their clients with a single point of contact for all the hardware required to operate a clean and controlled environment successfully. The following pages set out some of the most popular products and services,

## CLEANROOM DESIGN & CONSTRUCTION



**TURNKEY PROJECTS:**  
Page 04

**MODULAR CLEANROOM:**  
Page 05

**ISOPODS:**  
Page 46

**SERVICES:**  
Page 06

## FURNITURE



**STEPOVER BENCHES:**  
Page 10

**WORK BENCHES:**  
Page 30

**DRAWERS/CUPBOARDS:**  
Page 35

**GARMENT STORAGE:**  
Page 18

## EQUIPMENT



**FUME CABINETS:**  
Page 42

**NITROGEN GENERATOR:**  
Page 44

**LAMINAR AIRFLOW:**  
Page 40

**TRANSFER HATCHES:**  
Page 38



CHANGING ROOM  
FURNITURE

# SECTION CONTENTS

- Stainless Steel Stepover Benches (Page 10)
- Polypropylene Stepover Benches (Page 12)
- Trespa Stepover Benches (Page 13)
- Stainless Steel Lockers (Page 14)
- Trespa Lockers (Page 14)
- Stainless Steel Cupboards (Page 15)
- Stainless Steel Shelving Units (Page 16)
- Stainless Steel Shelves (Page 17)
- Stainless Steel Garment Rails (Page 18)
- Stainless Garment Dispensers (Page 18)
- LAF Garment Stocker (Page 19)
- Shoe Storage (Page 19)
- Sink Units (Page 20)
- Taps & Drainage (Page 22)
- Waste Sack Holders (Page 23)
- Changing Room Accessories (Page 24)



# STAINLESS STEEL STEPOVER BENCHES

Stepover Benches manufactured from grade 304 Stainless Steel (also available in 316) with an electro-polished surface finished, continuously welded seams and non shedding adjustable levelling feet. Stepover benches create a physical barrier between the clean and dirty side of a changing area helping to facilitate good gowning practice whilst also providing useful storage space in often cramped spaces. Stainless is a preferential material due to its cleanability, strength and durability properties, it is also a material that will not generate particulate and offers high levels of resistance to many acids and cleaning agents.

Standard configurations are presented on the following pages, however Stepovers can be manufactured in custom sizes and configurations to suit any space and layout. Popular bespoke options include L-Shape configurations and units with integrated lockers or pigeon hole storage.

## STEPOVER WITH COMPARTMENTS

- Grade 304 stainless steel frame, legs & surface
- Fully welded seams
- Adjustable levelling feet
- Storage compartments under bench
- Also available in grade 316 stainless



### SINGLE SHELF

W	D	H	Compartments	Product Code
1000	400	450	4	GSSB4C404510
1200	400	450	5	GSSB5C404512
1500	400	450	6	GSSB6C404515
1800	400	450	7	GSSB7C404518
2000	400	450	8	GSSB8C404520
2500	400	450	10	GSSB10C44525

### DUAL SHELF

W	D	H	Compartments	Product Code
1200	400	450	10	GSSB10C44510
1200	400	450	12	GSSB12C44512
1500	400	450	14	GSSB14C44514
1800	400	450	16	GSSB16C44516
2000	400	450	18	GSSB18C44520
2500	400	450	20	GSSB20C44525



Also available configured as a single shelf under bench.

# STAINLESS STEEL SEATING BENCHES

## SEATING BENCH

- Grade 304 stainless steel frame, legs & surface
- Fully welded seams
- Adjustable levelling feet
- Strengthening bar underframe for stability
- Available with integrated garment rail
- Also available in grade 316 stainless



### 4 LEGS: SINGLE BAR UNDERFRAME

W	D	H	Product Code
1000	400	450	GSSB1F404510
1200	400	450	GSSB1F404512
1400	400	450	GSSB1F404514
1900	400	450	GSSB1F404519

### 4 LEGS: TRIPLE BAR UNDERFRAME

W	D	H	Product Code
1000	400	450	GSSB3F404510
1200	400	450	GSSB3F404512
1400	400	450	GSSB3F404514
1900	400	450	GSSB3F404519

### 6 LEGS: SINGLE BAR UNDERFRAME

W	D	H	Product Code
2400	400	450	GSSB1F404524
2900	400	450	GSSB1F404529

### 6 LEGS: TRIPLE BAR UNDERFRAME

W	D	H	Product Code
2400	400	450	GSSB3F404524
2900	400	450	GSSB1F404529

## BENCH WITH COAT HOOKS

- Grade 304 stainless steel
- Fully welded seams
- 4 adjustable levelling feet
- Also available in grade 316 stainless
- Available with hooks on one side (Single Sided) or on both sides of bench (Double Sided)
- Also available as rail with hangers (Pictured)



Configuration	W	D	H	Product Code
Double Sided	1920	700	1775	GSSB2H701819
Single Sided	1920	400	1775	GSSB1H701819

# POLYPROPYLENE STEPOVER BENCHES

Like stainless steel, Polypropylene offers a high level of compatibility for Cleanroom environments, chemically resistant, strong and durable, non-porous surfaces with the added benefits of being an entirely non-corrosive material. Polypropylene Stepover Benches are hot welded with a continuous thermo-plastic weld and the the bench surface has a Grade 304 stainless steel wrap for added durability.

## STEPOVER BENCH WITH COMPARTMENTS

- Hidden powder coated steel frame
- Polypropylene faces and surfaces
- Grade 304 stainless steel benchtop surface
- Storage compartments under bench
- Hot welded joints and seams
- 4 adjustable levelling feet



### SINGLE SHELF

W	D	H	Compartments	Product Code
1000	400	450	3	GPSB3C404510
1200	400	450	4	GPSB4C404512
2000	400	450	6	GPSB6C404520
2500	400	450	8	GPSB8C404525
2900	400	450	10	GPSB10C44529

### DUAL SHELF

W	D	H	Compartments	Product Code
1000	400	450	6	GPSB6D404510
1200	400	450	8	GPSB8D404512
2000	400	450	12	GPSB12D44520
2500	400	450	16	GPSB16D44525
2900	400	450	20	GPSB20D44529



## STEPOVER BENCH WITH STORAGE

- Hidden powder coated steel frame
- Polypropylene faces and surfaces
- Grade 304 stainless steel benchtop surface
- Storage compartments under bench
- Single or double sided pigeon hole storage
- Hot welded joints and seams
- 4 adjustable levelling feet

W	D	H	Compartments	Product Code
1800	400	1200	16	GPSB16R41218
2100	400	1200	18	GPSB18R41221
2400	400	1200	20	GPSB20R41224
2700	400	1200	22	GPSB22R41227
3000	400	1200	24	GPSB24R41230

# TRESPA STEPOVER BENCHES

Trespa is a high-pressure compact laminate consisting of layers of wood-based fibres (paper and/or wood) impregnated with thermosetting phenolic resins and surface layers are impregnated with melamine based resins. These components are bonded together with simultaneous application of heat and high specific pressure to create a homogeneous non-porous material with increased density, high chemical resistance whilst providing attractive aesthetics. The bench frame work is created from powder coated steel box section to give the benches strength and stability.

## STEPOVER BENCH WITH COMPARTMENTS



- High pressure laminate (Trespa) surfaces
- Powder coated steel box section framework
- Clean and durable material
- Storage compartments under bench
- Available with lockable cabinet doors
- Available with coat rail and hooks or hangers



## SEATING BENCH

- High pressure laminate (Trespa) surfaces
- Powder coated steel box section framework
- Clean and durable material
- Adjustable levelling feet
- Available with coat rail and hooks or hangers



Legs	W	D	H	Product Code
4	1000	400	450	GTSB4L404510
4	1200	400	450	GTSB4L404512
4	2000	400	450	GTSB4L404520
6	2500	400	450	GTSB6L404525
6	2900	400	450	GTSB6L404529

# STAINLESS STEEL LOCKERS

## LOCKERS

Manufactured from grade 304 stainless steel, on adjustable levelling legs and with a sloping top to prevent particulate settlement, Guardtech stainless lockers are designed to provide operators with safe storage of personal belongings and clothing prior to entrance into the controlled area.

- Grade 304 stainless steel
- Locker standing height 150mm off the ground
- Height adjustable feet with non-marking rubber base
- Individually lockable compartments
- Camlock and key locking mechanism (others available on request)
- Easy to clean sloping top
- Available with vents on each door if required
- **Also available in Trespa**



W	D	H	Nests	Compartments	Product Code
342	405	1990	1	1	GSL1C3421990
342	405	1990	1	2	GSL2C3421990
342	405	1990	1	3	GSL3C3421990
342	405	1990	1	4	GSL4C3421990
628	405	1990	2	2	GSL2C6281990
628	405	1990	2	4	GSL4C6281990
628	405	1990	2	6	GSL6C6281990
628	405	1990	2	8	GSL8C6281990
914	405	1990	3	3	GSL3C9141990
914	405	1990	3	6	GSL6C9141990
914	405	1990	3	9	GSL9C9141990
914	405	1990	3	12	GSL12C9141990
1200	405	1990	4	4	GSL412001990
1200	405	1990	4	8	GSL812001990
1200	405	1990	4	12	GSL121201990
1200	405	1990	4	16	GSL161201990

# STAINLESS STEEL CUPBOARDS

## TALL CUPBOARDS

Manufactured from grade 304 stainless steel, on adjustable levelling legs to aid cleaning underneath and with a sloping top to prevent particulate settlement. Tall cupboards are available with internal shelves and can be lockable.

- Grade 304 stainless steel
- Adjustable leveling feet
- Hygienic sloping roof
- Internal Shelves available
- Available as mobile units on castors
- Available in grade 316 stainless
- Available with camlock and key

W	D	H	Product Code
900	457	1880	GSTC18457900
1200	457	1880	GSTC2D4571200
900	610	1880	GSTC2D610900
1200	610	1880	GSTC2D6101200



## SHORT CUPBOARDS & DRAWERS



- Grade 304 seamless welds
- Integrated handles
- Access beneath for cleaning
- Available with camlock & key
- Rear upstands available
- Available on castors
- Available with sliding doors
- Available with 13-amp sockets
- Available in grade 316
- Internal shelf options

Manufactured from grade 304 stainless steel, available as cupboard units, drawer units or a combination of both. Integrated cupboard and drawer handles with hygienic slope, units raised from the floor with adjustable levelling legs to facilitate cleaning underneath.

Cupboards: Each with internal mid height shelf

Drawer Units: Each comprise of 4 Drawers (as pictured)

Configuration	W	D	H	Product Code
1 Door Cupboard	600	600	850	GSSC1C606085
2 Door Cupboard	1200	600	850	GSSC2C601285
3 Door Cupboard	1500	600	850	GSSC3C601585
4 Door Cupboard	1800	600	850	GSSC4C601885
Single Drawer Unit	600	600	850	GSSD4D606085
1 Door + 1 Drawer Unit	1200	600	850	GSSC1C4D1285
2 Door Cupboard + 1 Drawer Unit	1500	600	850	GSSC2C4D1585
2 Door Cupboard + 2 Drawer Units	1800	600	850	GSSC2C8D1885
2 Door + 1 Overhead Drawer	1200	600	850	GSSC2C1D1285
2 Door + 2 Overhead Drawers	1200	600	850	GSSC2C2D1285

# STAINLESS STEEL RACKING/SHELVING

## STAINLESS RACKING/SHELVING

Guardtech stainless racking is manufactured from grade 304 stainless steel 30x30mm box section, continuously seam welded to eliminate ledges that are typically found with standard modular shelving units. Standard shelves are slatted to allow for airflow to pass through and to minimise ledges for particulate settlement, but can also be provided solid or perforated.

- Grade 304 stainless steel 30mm box section
- Fully welded construction
- Available as mobile unit with swivel castors
- Available with solid or perforated stainless sheet shelves
- Available as 2, 3 and 5 shelf units



### 4 LEGS / 4 SHELF UNITS

W	D	H	Product Code
610	450	1530	GSSR4S450610
914	450	1530	GSSR4S450914
1219	450	1530	GSSR4S451219
1524	450	1530	GSSR4S451524
1829	450	1530	GSSR4S451829
610	600	1530	GSSR4S600610
914	600	1530	GSSR4S600914
1219	600	1530	GSSR4S601219
1524	600	1530	GSSR4S601524

### 6 LEGS / 4 SHELF UNITS

W	D	H	Product Code
1829	450	1530	GSSR4S451829
2134	450	1530	GSSR4S452134
2438	450	1530	GSSR4S452438
2743	450	1530	GSSR4S452743
3048	450	1530	GSSR4S453048
1829	600	1530	GSSR4S601829
2134	600	1530	GSSR4S602134
2438	600	1530	GSSR4S602438
2743	600	1530	GSSR4S602743
3048	600	1530	GSSR4S603048

## STAINLESS WIRED SHELVING UNITS



A cost effective alternative to solid stainless shelving, Grade 304 wire racking units, durable and clean, whilst also allowing for maximum airflow around stored products.

- Grade 304 stainless steel shelves
- Grade 304 stainless steel poles
- Adjustable levelling feet
- Configurable Shelf Heights
- 100kg Max loading per shelf
- Mobile version available
- Available with 4 or 6 legs
- Available as a trolley unit with handle



For Product Codes  
Please see overleaf

# STAINLESS STEEL SHELVES

## STAINLESS WIRED SHELVING UNITS

Tiers	W	H	300mm D	400mm D	500mm D	600mm D
3	600	1650	GSWR3T163060	GSWR3T164060	GSWR3T165060	GSWR3T166060
3	800	1650	GSWR3T163080	GSWR3T164080	GSWR3T165080	GSWR3T166080
3	900	1650	GSWR3T163090	GSWR3T164090	GSWR3T165090	GSWR3T166090
3	1000	1650	GSWR3T163010	GSWR3T164010	GSWR3T165010	GSWR3T166010
3	1200	1650	GSWR3T163012	GSWR3T164012	GSWR3T165012	GSWR3T166012
3	1500	1650	GSWR3T163015	GSWR3T164015	GSWR3T165015	GSWR3T166015
3	1800	1650	GSWR3T163018	GSWR3T164018	GSWR3T165018	GSWR3T166018
4	600	1800	GWR4T183060	GWR4T184060	GWR4T185060	GWR4T186060
4	800	1800	GWR4T183080	GWR4T184080	GWR4T185080	GWR4T186080
4	900	1800	GWR4T183090	GWR4T184090	GWR4T185090	GWR4T186090
4	1000	1800	GWR4T183010	GWR4T184010	GWR4T185010	GWR4T186010
4	1200	1800	GWR4T183012	GWR4T184012	GWR4T185012	GWR4T186012
4	1500	1800	GWR4T183015	GWR4T184015	GWR4T185015	GWR4T186015
4	1800	1800	GWR4T183018	GWR4T184018	GWR4T185018	GWR4T186018



## WALL MOUNTED SHELVES

A space effective storage solution when floor space is at a premium, available as a single shelf or two or three tier shelves. Grade 304 stainless, fully welded seams, upstand at rear of shelf.



- Grade 304 stainless steel
- Fixing holes pre-drilled
- Available as perforated shelves
- Available in grade 316 stainless



W	D	Single Shelf	Two Tier	Three Tier
400	300	GSWS1T300400	GSWS2T300400	GSWS3T300400
600	300	GSWS1T300600	GSWS2T300600	GSWS3T300600
900	300	GSWS1T300900	GSWS2T300900	GSWS3T300900
1200	300	GSWS1T301200	GSWS2T301200	GSWS3T301200
1500	300	GSWS1T301500	GSWS2T301500	GSWS3T301500
1800	300	GSWS1T301800	GSWS2T301800	GSWS3T301800
400	400	GSWS1T400400	GSWS2T400400	GSWS3T400400
600	400	GSWS1T400600	GSWS2T400600	GSWS3T400600
900	400	GSWS1T400900	GSWS2T400900	GSWS3T400900
1200	400	GSWS1T401200	GSWS2T401200	GSWS3T401200
1500	400	GSWS1T401500	GSWS2T401500	GSWS3T401500
1800	400	GSWS1T401800	GSWS2T401800	GSWS3T401800

# GARMENT STORAGE

## GARMENT RAIL

Grade 304 stainless steel box section frame with tube rail complete with stainless steel captive hangers for garment storage in change areas. Standard option is as a rail, but can also be manufactured with coat hooks.



- Grade 304 stainless steel
- Can be integrated with stepover benches
- Adjustable levelling feet
- Mobile version available
- Also available with hooks
- Available in grade 316



L	W	H	Hangers	Product Code
1200	600	1600	10	GSGR10120160
1200	600	1600	15	GSGR15120160
1200	600	1600	20	GSGR20120160
1300	600	2180	12	GSGR12130218
1600	600	2180	24	GSGR24160218



Coat Hooks available on page 24



## GARMENT DISPENSERS

Garment dispensers are used as part of a uniform management system, allowing for inventory to be stored in individual lockers and re-stocked with master access to all compartments.

- Supplied with cam or hasp and staple locks
- 304 grade stainless steel
- Compartments individually lockable
- Can be louvred for air circulation
- Sloping roof option
- Master door to front or rear
- Available in grade 316



Compartments	W	D	H	Product Code
10	400	405	1990	GSGD10405400
15	400	405	1990	GSGD15405400
45	1050	450	1990	GSGD45451050
45	972	450	1990	GSGD45451990

# LAF GARMENT STOCKERS



## GARMENT STOCKER

Laminar Airflow Garment Stockers provide a consistent HEPA filtered airflow vertically over garments hung on the rail to remove particulate from clothing whilst also positively pressurising their environment to stop particulate settlement during storage.

- ISO class 5 within the cabinet
- In built LED lighting
- Control panel for fan and light switch
- Heavy duty levelling castors
- Available in 304 stainless steel or polypropylene
- 316 stainless steel also available
- Adjustable feet with non-marking rubber base
- Stainless rail with 20 captive coat hangers
- Shelves can also be fitted to the unit



Material	W	D	H	Hangers	Vertical Airflow	Horizontal Airflow
Polypropylene	1000	700	2450	15	GPGSVA151000	GPGSHA151000
Polypropylene	1200	700	2450	20	GPGSVA201200	GPGSHA201200
Polypropylene	1500	700	2450	26	GPGSVA261500	GPGSHA261500
Polypropylene	1800	700	2450	32	GPGSVA321800	GPGSHA321800
Stainless Steel	1000	700	2450	15	GSGSVA151000	GSGSHA151000
Stainless Steel	1200	700	2450	20	GSGSVA201200	GSGSHA201200
Stainless Steel	1500	700	2450	26	GSGSVA261500	GSGSHA261500
Stainless Steel	1800	700	2450	32	GSGSVA321800	GSGSHA321800

## PIGEON HOLE SHOE RACK

- Grade 304 stainless steel
- Adjustable levelling feet
- Open front and easy to clean sloping top
- Can be incorporated into Stepover Benches

Pairs	W	D	H	Product Code
10	569	350	1700	GSSR10170569
15	840	350	1700	GSSR15170840
20	1120	350	1700	GSSR20171120
30	1690	350	1700	GSSR30171690



# SINKS

Guardtech sinks are manufactured from grade 304 stainless steel and are designed for washrooms and change areas in critically controlled environments.

Sinks are available with a standard lever tap system, knee operated or with infrared motion detection taps for hands free operation to reduce cross contamination from contact.

The following pages illustrate some standard options, however sink and tap configurations can be manufactured to meet your exact space and specification requirement.

## FEATURES

- Easy to clean sloping top
- Optional under sink shelving & cupboards
- Available with point of use heaters
- Drainage pumps can be incorporated
- Open pedestal or stainless shroud options
- Available in 316 stainless steel



## INSET BOWL SINK UNITS



- Grade 304 stainless steel
- 1 tap and bowl per operator configuration (as pictured above)
- Motion detector taps as standard
- Sloping top and high splashback
- Dyson Airblade taps (pictured above) available
- Available in Grade 316 stainless steel

Operators	W	D	H	Sink H	Shrouded
1	565	540	1450	850	GSBS1P540565
2	1130	540	1450	850	GSBS2P541130
3	1695	540	1450	850	GSBS3P541695
4	2290	540	1450	850	GSBS4P542290

## TRough - KNEE OPERATED



- Trough style basin
- Also available with motion detector taps or Dyson Airblade taps
- Available open on pedestal or shrouded in 304 stainless steel
- Also available as a wall mounted unit (pictured above)

Operators	W	H	Pedestal	Shrouded
1	465	400	GSTSKP140465	GSTSKS140465
2	800	400	GSTSKP240800	GSTSKS240800
3	1200	400	GSTSKP340120	GSTSKS340120
4	1600	400	GSTSKP440160	GSTSKS440160
5	2000	400	GSTSKP540200	GSTSKS540200
6	2400	400	GSTSKP640240	GSTSKS640240

## UTILITY SINKS



### SINGLE BOWL UTILITY SINK

W	D	H	Bowl D	Back H	Product Code
910	750	850	450	350	GSUS1B450910
1160	750	850	450	350	GSUS1B451160
1410	750	850	450	350	GSUS1B451410
1910	750	850	450	350	GSUS1B451910
910	750	850	600	350	GSUS1B600910
1160	750	850	600	350	GSUS1B601160
1410	750	850	600	350	GSUS1B601410
1910	750	850	600	350	GSUS1B601910

### DOUBLE BOWL UTILITY SINK

W	D	H	Bowl D	Back H	Product Code
1410	750	850	450	350	GSUS2B451410
1910	750	850	450	350	GSUS2B451910
1410	750	850	600	350	GSUS2B601410
1910	750	850	600	350	GSUS2B601910

- Easy to clean sloping top
- 350mm tall splashback
- Flush wall fitting provided by inset legs
- Taps mounted on rear ledge or on splashback
- Single or double bowl configuration
- Also available with low splashback

## SINKS WITH DRAINER & CUPBOARD



- Easy to clean sloping top
- 100mm upstand
- Flush wall fitting provided by inset legs
- Taps mounted on rear ledge or on splashback
- Single or double bowl configuration
- Also available with tall splashback
- Height adjustable versions available

Ideal for use in washrooms combined with pre-rinse tap units, Guardtech sink, drainer and cupboard combinations provide the perfect self contained wash station with ample storage solutions.

Configuration	W	D	H	Product Code
Single Drainer & Bowl with 2 Door Cupboard	1000	600	900	GSS1D1B2C100
Single Drainer & Bowl with 3 Door Cupboard	1800	600	900	GSS1D1B3C180
Single Drainer & 2 Bowl with 3 Door Cupboard	1800	600	900	GSS1D2B3C180
Double Drainer & 2 Bowl with 4 Door Cupboard	2400	600	900	GSS2D2B4C240



# TAPS & DRAINAGE

## TAP RANGE

A range of specialist taps and pre-rinse units can be installed on any Guardtech sink from the previous pages.

Tap	Product Code
Dyson Airblade Tap	GSTD A1000000
Motion Sensor Tap	GSTM S1000000
Lever 3" Pillar Tap	GSTL 3P000000
Deck Lever 3"	GSTD L3000000
Pre-Rinse Mono Block	GSTTPRMB0000
Short Pre-riense	GSTSPR000000
Short Pre Rinse with pot filler	GSTSPRF0000



Dyson Airblade Tap



Motion Sensor Tap



Lever 3" Pillar Tap



Deck Lever 3"

## PRE RINSE RANGE



Pre-rinse Mono Block



Short Pre-rinse



Short Pre-rinse with pot filler

## DRAINAGE

- Stainless Steel drainage products provide an easy to clean, non corrosive solution
- Drainage Pipes, Channels, Drains & Dump Pots available in 304 or 316 Stainless
- Available in a wide range of sizes and configurations
- Guardtech can also provide quotation for Groundworks
- Call today for a custom quote

Tap	Product Code
Stainless Straight Drain Pipe	Call for Options
Stainless Drainage Channel	Call for Options
Stainless Floor Drain	Call for Options
Stainless Bends	Call for Options



Drainage Channel



Floor Drain

# WASTE SACK HOLDERS

Waste sack holders in grade 304 stainless steel, open or shrouded units available with a hands free system using a foot pedal to operate the lid, eliminating hand contact and minimising the risk of contamination.



## PEDAL BIN

- Grade 304 stainless steel
- 350mm ring diameter
- 75 litre capacity
- Complete with lid
- Complete with bag clamping band

W	D	H	Product Code
500	400	800	GSBLPO504080



## FLIP LID BIN

- Grade 304 stainless steel
- Swing lid
- Removable top
- Adjustable feet
- Fully enclosed



## SHROUDED PEDAL BIN

- Grade 304 stainless steel
- Foot operated pedal bin
- Shrouded in grade 304 stainless
- Complete with lid
- Complete with bag clamping band



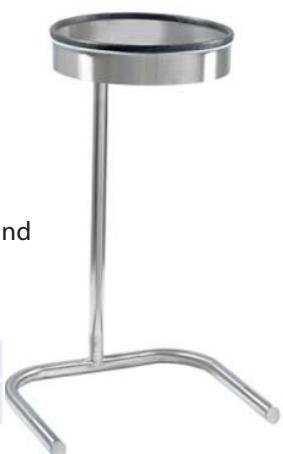
## WALL MOUNTED BAG HOLDER

- Grade 304 stainless steel
- With or without lid
- 350mm diameter
- Wall mounted
- Complete with bag clamping band



## WASTE BAG HOLDER

- Grade 304 stainless steel
- 350mm ring diameter
- Free standing
- 800mm high
- Complete with bag clamping band



Configuration	D	Product Code
With Lid	350	GSBNNWMO0350
Without Lid	350	GSBLNWMO0350

D	H	Product Code
350	800	GSBNNO504080

# CLEANROOM ACCESSORIES

## MULTI-PURPOSE DISPENSER

- Designed to hold pair packed gloves
- Can also hold goggles, overshoes & mob caps
- Grade 304 stainless steel
- Vision slots
- Hinged lid & lip at the front



W	D	H	Compartment	Product Code
300	200	400	Single	GSMPD1402030
600	200	400	Double	GSMPD2402060
900	200	400	Triple	GSMPD3402090



## GLOVE DISPENSER

- Designed to hold boxed gloves
- Can also hold beard snoods & mob caps
- Grade 304 stainless steel
- Open top for easy loading
- Wall mounted
- Available with 1, 2 or 3 openings

W	D	H	Compartment	Product Code
165	100	260	Single	GSGD1B260165
330	100	165	Double	GSGD2B165330
495	100	165	Triple	GSGD3B165495

## PAPER TOWL DISPENSER

- Grade 304 stainless steel
- Wall mounted
- Top loading

W	D	H	Product Code
290	100	365	GSPTDT290365



## CENTRE PULL ROLL DISPENSER

- Grade 304 stainless steel
- Wall mounted
- Vision slot

W	D	H	Product Code
200	215	365	GSCPD2215365



## DYSON HAND DRYER

- Touch free, proximity sensor
- 12 second drying time
- Antibacterial additive in the paint
- Extends only 100mm from wall
- HEPA filtered air supply
- 79db operating sound
- 30 l/s airflow



W	D	H	Product Code
235	100	395	GSDVHD235395

## WALL MOUNTED COAT HOOKS

- Available in grade 304 stainless
- Pre-drilled for easy wall mounting
- Powder coated or electropolished



Hooks	Staggered	Non-Staggered
10	GSMCHST0010	GSMCHNST010
20	GSMCHST0020	GSMCHNST020



## CLEANROOM FURNITURE

- Cleanroom Chairs (Page 26)
- Stainless Steel Work Benches (Page 30)
- Stainless Steel Desks (Page 31)
- Height Adjustable Benches (Page 31)
- Stainless Steel Cupboards (Page 32)
- Stainless Steel Trolleys (Page 33)
- Trespa Work Benches (Page 34)
- Trespa Cupboards (Page 35)

# CLEANROOM CHAIRS

## MVMT PRO

The MVMT Pro is designed for today's ultra-critical environments including static sensitive and particle and microbe controlled areas. The MVMT Pro offers weight-activated control, meaning an individual user's weight sets the tension, which alleviates resetting controls in multi-user shift workplaces. The seating is engineered for a task-specific range of motion and constant use. The MVMT Pro has a high end modern aesthetic and positively enhances corporate image.

- Waterfall-front seat 18½" wide x 17" deep x 3" thick with four-way contouring
- Backrest 15½" wide with full lumbar support
- Soft-touch pneumatic seat-height adjustment, rearward seat tilt, backrest tilt and height adjustment
- Optional: Static Control seating with ESD upholstery—Rated to Class 1/ISO Class 3
- Dual-wheel non-marring polyurethane casters resist movement when the chair is unoccupied
- Lock-out control mechanism can be locked in three different reclining positions with a simple twist of a knob.
- Suitable for ISO3 to ISO5 controlled environments
- QR code profile system delivers individual webpage for every specific MVMT unit manufactured
- Hermetically sealed under-seat rubber boot encapsulates moving parts and meets the stringent requirement of ISO3
- Supported by a massive 13-year warranty



Seat Height	Back Rest Height	Blue Upholstery	Black Upholstery
Desk (17- 21")	Tall (19.5")	GCMVPBL17195	GCMVPBK17195
Bench (20- 27")	Tall (19.5")	GCMVPBL20195	GCMVPBK20195
High Bench (24- 33")	Tall (19.5")	GCMVPBL24195	GCMVPBK24195
Desk (17- 21")	Short (15")	GCMVPBL01715	GCMVPBK01715
Bench (20- 27")	Short (15")	GCMVPBL02015	GCMVPBK02015
High Bench (24- 33")	Short (15")	GCMVPBL02415	GCMVPBK02415

FOOTRING



Height adjustable stain-less steel footring, 22" diameter slides easily, holds positively and stays put.

ARMRESTS



Armrest adjustment - height, width and depth can be adjusted & locked.

CONTROLS



Adjust seat height, seat tilt, seat slide, backrest angle and height, micro-tension control & control lockout.

BASE



Resistance casters featur-ing a semi-soft tread that won't roll away easily.

# CLEANROOM CHAIR MVMT TECH

Like the MVMT Pro, the Tech Series was created for ultra-critical environments including static-sensitive and particle-/microbe-controlled areas such as medical device manufacturing, genetic research, pharmaceutical processing and similar facilities. Tech Series comes standard without arms to allow tucking under work surfaces. Models available with tall and medium backrests. 13-year warranty.

- Similar to the MVMT Pro but with slightly downgraded control mechanisms, a cost effective yet high quality option of cleanroom seating.
- Intuitive functionality including weight-activated control and synchronous seat and backrest.
- Engineered for task-specific range of motion and 24/7/365 use.
- Exclusive QR code product tag delivers individual webpage for every MVMT unit manufactured.
- Easy wipe down upholstery.
- ISO Class 5 clean room models available
- Dual-wheel non-marring polyurethane casters resist movement when the chair is unoccupied, enhancing workplace safety by inhibiting chair from rolling away.
- Arm rest are available upon request.
- Also available in high bench size (seat height 24 - 33")



Seat Height	Back Rest Height	Blue Upholstery	Black Upholstery
Desk (17- 21")	Tall (19.5")	GCMVTBL17195	GCMVTBK17195
Bench (20- 27")	Tall (19.5")	GCMVTBL20195	GCMVTBK20195
High Bench (24- 33")	Tall (19.5")	GCMVTBL24195	GCMVTBK24195
Desk (17- 21")	Short (15")	GCMVTBL01715	GCMVTBK01715
Bench (20- 27")	Short (15")	GCMVTBL02015	GCMVTBK02015
High Bench (24- 33")	Short (15")	GCMVTBL02415	GCMVTBK02415

FOOTRING



Height adjustable stainless steel footring, 22" diameter slides easily, holds positively and stays put.

ERGONOMIC



Contoured foam and vacuum formed vinyl upholstery provide well supported comfort.

CONTROLS



Task control with soft touch pneumatic adjusts seat height and backrest angle and height.

BASE



Resistance casters featuring a semi-soft tread that won't roll away easily.

# CLEANROOM CHAIRS

## ELITE



Elite is designed for use at 34"- 44" high benches. Features include easy pneumatic seat height adjustments from 22" to 32", an ergonomic seat with four-way contouring and internal seat board bumperguard, a mid-sized back with lumbar support and a plastic protective panel, and convenient backrest tilt and height adjustments. The seat and back are covered with Grade 2 vinyl upholstery for durability and easy-cleaning. The chair rests on a high-profile 25.6" diameter cast aluminum base; other features include dual-wheel, non-marring polyurethane casters that resist movement when the chair is unoccupied.

- Ergonomic seat with waterfall front
- Dual-wheel non-marring polyurethane casters resist movement when the chair is unoccupied, enhancing workplace safety by inhibiting seating from rolling away.
- Rugged multi purpose seating with antimicrobial properties and UV inhibitor standard in every seat and backrest.
- 13 year warranty with lifetime warranty on pneumatics
- Optional 22" diameter adjustable footring
- Also available in high bench configuration (seat height 24 - 33")



Seat Height	Back Rest Height	Blue Upholstery	Black Upholstery
Desk (17- 21")	Tall (19.5")	GCELTBL17195	GCELTBK17195
Bench (20- 27")	Tall (19.5")	GCELTBL20195	GCELTBK20195
High Bench (24- 33")	Tall (19.5")	GCELTBL24195	GCELTBK24195
Desk (17- 21")	Short (15")	GCELTBL01715	GCELTBK01715
Bench (20- 27")	Short (15")	GCELTBL02015	GCELTBK02015
High Bench (24- 33")	Short (15")	GCELTBL02415	GCELTBK02415

FOOTRING



Optional height adjustable stainless steel footing, 22" diameter slides easily, holds positively and stays put.

ARMRESTS



Optional Armrests - height can be adjusted & locked.

CONTROLS



Task control with soft touch pneumatic adjusts seat height and backrest angle and height.

BASE



Resistance casters featuring a semi-soft tread that won't roll away easily.

# CLEANROOM CHAIR ARMOUR

Rugged multipurpose construction, full ergonomic adjustability, and antimicrobial properties make this Armour series chair a versatile seating solution for lower grade controlled environments, laboratories and educational applications.

This chair is designed for use at 29"-33" high desks and benches. Functions include pneumatic seat height adjustment range of 17" to 21", fixed rearward seat tilt of 3.5 degrees, plus backrest tilt and height adjustment controls. Features 16" wide X 10.75" high backrest with lumbar support, ergonomic 17.5" wide X 15.5" deep seat with waterfall front; robust 23" diameter tubular steel base with affixed 21" diameter footing, and dual-wheel, non-marring polyurethane casters that resist movement when the chair is unoccupied. Easy-to-clean seat and backrest feature stipple finish and contain UV inhibitor and antimicrobial properties. Metal parts have chrome finish.



- Ergonomic seat with waterfall front
- Dual-wheel non-marring polyurethane casters resist movement when the chair is unoccupied, enhancing workplace safety by inhibiting seating from rolling away.
- Rugged multi purpose seating with antimicrobial properites and UV inhibitor standard in every seat and backrest.
- 13 year warranty with lifetime warranty on pneumatics
- Optional 22" diameter adjustable footing
- Also available in high bench configuration (seat height 24 - 33")



Seat Height	Tubular Base inc Footing	Base + Adjustable Footing
Desk (17- 21")	GCARMTB00017	GCARMSBFR017
Bench (20- 27")	GCARMTB00020	GCARMSBFR020
High Bench (24- 33")	GCARMTB00024	GCARMSBFR024

## FOOTRING



Optional height adjustable stainless steel footing, 22" diameter slides easily, holds positively and stays put.

## MATERIAL



Seat and Backrest made from Polypropylene containing UV inhibitor and antimicrobial properties.

## CONTROLS



Task control with soft touch pneumatic adjusts seat height and backrest angle and height.

## BASE



Built in tubular footing. Resistance casters featuring a semi-soft tread that won't roll away easily.

# STAINLESS STEEL WORKBENCHES

Workbenches manufactured from grade 304 Stainless Steel (also available in 316) with an electro-polished surface finished, continuously welded seams and non shedding adjustable levelling feet. Stainless is a pre-ferential material due to its cleanability, strength and durability properties, it is also a material that will not generate particulate and offers high levels of resistance to many acids and cleaning agents.

Standard configurations are presented on the following pages, however workbenches can be manufactured in custom sizes and configurations to suit any space and layout. Popular bespoke options include L-Shape configurations and units with integrated drawers, cabinets and shelves.



## SINGLE BAR FRAME

- 304 grade stainless steel frame (30x30mm box) and work surface with fully welded frame & joints
- Heavy duty frame is manufactured from 50x50mm box section and has the rail at the rear of the unit
- Available on casters as a mobile bench
- Available in 316 stainless steel
- All sizes can be configured with 1 or 2 solid shelves

D	L	H	Standard Frame	Heavy Duty Frame
600	600	900	GSWBSF600600	GSWBHD600600
900	600	900	GSWBSF600900	GSWBHD600900
1200	600	900	GSWBSF600120	GSWBHD600120
1500	600	900	GSWBSF600150	GSWBSHD00150
1800	600	900	GSWBSF600180	GSWBHD600180
1500	750	900	GSWBSF750150	GSWBHD750150
1800	750	900	GSWBSF750180	GSWBHD750180
1800	900	900	GSWBSF900180	GSWBHD900180



With undershelf

## TRIPLE BAR FRAME

- 304 grade stainless steel frame (30x30mm box) and work surface with fully welded frame & joints
- Available on casters as a mobile bench
- Triple bar under-shelf
- Heavy duty frame is manufactured from 50x50mm box
- Available in grade 316 stainless steel

D	L	H	Standard Frame	Heavy Duty Frame
600	600	900	GSWBS3600600	GSWBH3600600
900	600	900	GSWBS3600900	GSWBH3600900
1200	600	900	GSWBS3600120	GSWBH3600120
1500	600	900	GSWBS3600150	GSWBSH300150
1800	600	900	GSWBS3600180	GSWBH3600180
1500	750	900	GSWBS3750150	GSWBH3750150
1800	750	900	GSWBS3750180	GSWBH3750180
1800	900	900	GSWBS3900180	GSWBH3900180



## HEIGHT ADJUSTABLE WORK BENCH



The Guardtech height adjustable work bench has been specially designed in order to minimize the problems associated with repetitive strain injury. Its' four position memory enables both taller and shorter people to use the bench with comfort. All that is required is simple memory set procedure for each individual using the bench and that set position then becomes unique for that particular operative.

Incorporating 'True Parallel Drive', which insures that even if the table is obliquely loaded, the tabletop will always remain level and true during use.

Mountings for fan filter units, power points, equipment or storage racks may be fitted to the worktop as required.

The four legged version have added loading capacity and even extra rigidity, ideal for supporting Safety Cabinets and LAF units.

- Push button operation
- 4 programmable user heights with 450mm height adjustment
- 304 or 316 stainless steel construction
- Robust sturdy design
- Optional lockable castors or fixed feet
- Minimum height 745mm for bench with castors 675mm for bench with feet
- Maximum height 1195mm for table with castors 1125mm for table with feet
- 200kg Max Lift
- 500g Max Static load in locked position
- Also available as height adjustable sinks

### For Ordering Info

Please call 033 011 30303



## DESK

- 304 grade stainless steel
- Four adjustable feet
- 2 drawer cabinet inbuilt
- Available with upstand
- Fully welded seems
- Optionals paper trays

D	L	H	Product Code
1500	750	750	GSDK2D751500



# STAINLESS STEEL CUPBOARDS

## TALL CUPBOARDS

Manufactured from grade 304 stainless steel, on adjustable levelling legs to aid cleaning underneath and with a sloping top to prevent particulate settlement. Tall cupboards are available with internal shelves and can be lockable.

- Grade 304 stainless steel
- Adjustable leveling feet
- Hygienic sloping roof
- Internal Shelves available
- Available on castors
- Available in grade 316 stainless
- Available with camlock and key

W	D	H	Product Code
900	457	1880	GSTC18457900
1200	457	1880	GSTC2D4571200
900	610	1880	GSTC2D610900
1200	610	1880	GSTC2D6101200



## SHORT CUPBOARDS & DRAWERS



- Grade 304 seamless welds
- Integrated handles
- Access beneath for cleaning
- Available with camlock & key
- Rear upstands available
- Available on castors
- Available with sliding doors
- Available with 13-amp sockets
- Available in grade 316
- Internal shelf options

Manufactured from grade 304 stainless steel, available as cupboards units, drawer units or a combination of both. Integrated cupboard and drawer handles with hygienic slope, units raised from the floor with adjustable levelling legs to facilitate cleaning underneath.

Cupboards: Each with internal mid height shelf

Drawer Units: Each comprise of 4 Drawers (as pictured)

Configuration	W	D	H	Product Code
1 Door Cupboard	600	600	850	GSSC1C606085
2 Door Cupboard	1200	600	850	GSSC2C601285
3 Door Cupboard	1500	600	850	GSSC3C601585
4 Door Cupboard	1800	600	850	GSSC4C601885
Single Drawer Unit	600	600	850	GSSD4D606085
1 Door + 1 Drawer Unit	1200	600	850	GSSC1C4D1285
2 Door Cupboard + 1 Drawer Unit	1500	600	850	GSSC2C4D1585
2 Door Cupboard + 2 Drawer Units	1800	600	850	GSSC2C8D1885
2 Door + 1 Overhead Drawer	1200	600	850	GSSC2C1D1285
2 Door + 2 Overhead Drawers	1200	600	850	GSSC2C2D1285

## FILING CABINET



W	D	H	Drawers	Product Code
470	620	700	2	GSFC02
470	620	1000	3	GTFC.001.02
470	620	1500	4	GTFC.001.03



# STAINLESS STEEL TROLLEYS

## STAINLESS STEEL TROLLEY

Guardtech stainless steel trolleys are available in two variations, grade 304 stainless solid steel shelves or wired. Guardtech also produce a range of trolley pass through hatches which can be found on pages 38 and 39.

- Grade 304 Stainless Steel
- 360° Casters with brakes on two wheels
- Available with brakes on all casters
- Fully welded seams
- Max load per shelf- 50kg
- Also available in stainless steel wired
- Available in grade 316 stainless



Shelves	L	W	H	Product Code
2	700	500	950	GST250700950
3	700	500	950	GST350700950
2	900	600	950	GST260900950
3	900	600	950	GST360900950
4	900	600	1290	GST460900129
2	1000	650	950	GST265100950
3	1000	650	950	GST365100950
4	1000	650	1290	GST465100129
2	1100	700	1000	GST270110100
3	1100	700	1000	GST370110100
4	1100	700	1350	GST470110100



## BUGGIES

- Heavy duty 5mm reinforced base
- Fully welded crevice free construction with beaked front rim
- Pushing handle for operation
- Diamond pattern wheels for manouvreability
- Can be manufactured without sideflights
- Also available perforated

Litres	H	L	W	Product Code
120	500	600	540	GSB120506054
200	710	700	680	GSB200717068
300	710	940	680	GSB300719468



# TRESPA WORK BENCHES

Trespa is a high-pressure compact laminate consisting of layers of wood-based fibres (paper and/or wood) impregnated with thermosetting phenolic resins and surface layers are impregnated with melamine based resins. These components are bonded together with simultaneous application of heat and high specific pressure to create a homogeneous non-porous clean and smooth material with increased density, high chemical resistance whilst providing attractive aesthetics. The bench frame work is created from powder coated steel box section to give work benches strength and stability.



## WORK BENCH

- Adjustable levelling feet or casters
- Work surface 16mm Trespa Toplab Base E0-00 White
- White powder coated steel frame 25x50mm 16 gauge
- 2mm chamfered edges (Black)
- Draws below available
- Easy to clean

W	D	H	Product Code	+ Upstand
600	600	900	GTSTDF906060	GTUPSF906060
900	600	900	GTSTDF906090	GTUPSF906090
1000	600	900	GTSTDF906010	GTUPSF906010
1200	600	900	GTSTDF906012	GTUPSF906012
1500	600	900	GTSTDF906015	GTUPSF906015
1800	600	900	GTSTDF906018	GTUPSF906018

## WORK BENCH WITH UNDERSHELF

- Adjustable levelling feet or casters
- Button control panel to change height setting
- Available with wheel casters
- Upstand available
- Draws below available

W	D	H	Shelf (Half Depth)	Shelf (Full Depth)
600	600	900	GTSFHD906060	GTSFFD906060
900	600	900	GTSFHD906090	GTSFFD906090
1000	600	900	GTSFHD906010	GTSFFD906010
1200	600	900	GTSFHD906012	GTSFFD906012
1500	600	900	GTSFHD906015	GTSFFD906015
1800	600	900	GTSFHD906018	GTSFFD906018



# TRESPA CABINETS

Trespa cabinets are designed to be long lasting, easy to clean and resistant to chemicals and acids. This product is designed to be monoverable and fit underneath Trespa worktops.

## CABINETS

- Designed to fit underneath work benches
- Easy to clean, chemical resistant surface
- Damage resistant Trespa Toplab Base worktop
- Powder coated steel framework
- Locking system available
- Hinged doors and soft close drawer mechanism
- Upstand available with silicone seal along the joint
- Height adjustable shelving within cupboards
- Drawer fronts and cupboards fronts Trespa Toplab Base
- Cabinet carcasses Trespa or more cost effective laminate
- Delivered fully assembled



Made-to-Measure: Guardtech design team can conduct site surveys or work from layout drawings to provide detailed 2D and 3D furniture layout designs to ensure maximisation of your work space and storage.

Call today to discuss your exact requirements.



D	L	H	Cupboards	Cupboard Only	+ 1 Large Drawer	+ Multi-Drawers
600	600	850	1	GT1C0D608560	GT1C1D608560	-
1200	600	850	2	GT2C0D608512	GT2C1D608512	GT2C2D608512
1500	600	850	3	GT3C0D608515	GT3C1D608515	GT3C3D608515
1800	600	850	4	GT4C0D608518	GT4C1D608518	GT4C4D608518

+1 Drawer: Full Length Drawer above Cupboard / + Multi-Drawers: Same amount of drawers as cupboards

# CLEANROOM EQUIPMENT



# SECTION CONTENTS

- Transfer Hatches (Page 38)
- Laminar Flow Equipment (Page 40)
- Fume Cupboard (Page 42)
- Nitrogen Generators (Page 44)
- Air Showers (Page 45)
- Hardwall Modular Cleanrooms (Page 47)
- Softwall Modular Cleanrooms (Page 50)
- Extendable Modular Cleanrooms (Page 50)



# STAINLESS STEEL TRANSFER HATCH



Transfer Hatches provide a controlled air-tight zone between classified and non-classified or lower graded environments for the transfer of products and ancillary items. Transfer hatches eliminate unnecessary traffic from the cleanroom and reduce particle ingress, whilst reducing the risk of cross-contamination. Chambers are adequately sized to allow for product wipe down with cleaning agents. Stainless steel hatches are typically used in Pharmaceutical applications providing high chemical resistance and hygienic surfaces for easy cleaning. Stainless construction is also extremely durable and ensures longevity of a piece of equipment that will be used many times throughout the course of a day.

**AIR SHOWER:** Stainless Hatches can also be supplied with integral air showers for further protection, an especially useful function for use in containment suites.



## PASS THROUGH HATCH

- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Reinforced
- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Vertically sliding door available

W	L	H	Interlock	Product Code
600	600	600	Mechanical	GSPHMI606060
600	600	600	Electro-Magnetic	GSPHEM606060

## TROLLEY HATCH

- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Reinforced
- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Vertically sliding door available

W	L	H	Interlock	Product Code
1000	1000	1200	Mechanical	GSTHMI101012
600	600	600	Electro-Magnetic	GSTHEM101012



## TWIN STACK TROLLEY & PASS THROUGH HATCH

- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Reinforced
- Garde 304 & 316 stainless steel
- Mechanical or Electrical Interlock
- Vertically sliding door available

W	L	H	Interlock	Product Code
1000	1000	1800	Mechanical	GS2HMI101018
1000	1000	1800	Electro-Magnetic	GS2HEM101018

# POLYPROPYLENE TRANSFER HATCH

Polypropylene Transfer Hatches provide a cost-effective alternative to Stainless Steel whilst still providing the benefits of chemical resistance and hygienic surfaces. All seams are achieved with continuous hot welds and internal seams are coved, front faces can be flush mounted and finished with a thin bead of silicone.

## PASS THROUGH HATCH

- Mechanical or Electrical interlock system available
- Clear Perspex doors for visibility
- Easy to clean surface
- No visible fixings
- Hinged doors

W	L	H	Interlock	Product Code
600	600	600	Mechanical	GPPHMI606060
600	600	600	Electro-Magnetic	GPPHEM606060



## TROLLEY HATCH

- Mechanical or Electrical interlock system available
- Clear Perspex doors for visibility
- Easy to clean surface
- No visible fixings
- Hinged doors

W	L	H	Interlock	Product Code
1000	1000	1200	Mechanical	GPTHMI101012
600	600	600	Electro-Magnetic	GPTHM101012



## TWIN STACK TROLLEY & PASS THROUGH HATCH

- Mechanical or Electrical interlock system available
- Clear Perspex doors for visibility
- Easy to clean surfaces
- No visible fixings
- Hinged doors

W	L	H	Interlock	Product Code
1000	1000	1800	Mechanical	GP2HMI101018
1000	1000	1800	Electro-Magnetic	GP2HEM101018



# VERTICAL LAMINAR FLOW UNIT

Vertical Laminar Flow Work Stations provide upgraded clean workspaces for superior product protection, classified to ISO Class 5 utilising H14 HEPA filters. Air is initially drawn in from the ambient environment through the top of the unit via an easy-change G4 pre-filter to remove larger particles and fibres. Air passes through a fan filter unit containing an H14 HEPA filter which removes 99.9995% of all particles  $>0.3\text{ }\mu\text{m}$  in size. This generates an ISO Class 5 critically controlled workspace providing the ultimate protection for the product.

Guardtech LAF units are complete work stations including the mobile workbench, but can also be provided as just benchtop units for clients to use with their own furniture if preferred. Cabinets are manufactured from polypropylene and the frame is available in either powder coated mild steel or grade 304 stainless steel. The bench work surface is grade 304 stainless steel as standard but can also be made from trespa upon request.

The Clean Bench complies with production/test standard USA Federal Standard 209E / ISO 1- 144641 and can be customized to customer requirements.

- Vertical air stream producing clean air at ISO5
- Polypropylene structure with high chemical resistance
- User-friendly digital control system
- Work surface made of 304 stainless steel
- Side windows made of tempered glass
- High quality, quiet fan
- Noise level as low as  $< 58\text{ DBA}$
- Universal electrical outlet
- Innovative, advanced design
- Variety of sizes and materials
- Eco-friendly, cost-effective LED lighting
- Heavy duty lockable levelling casters
- Compliance with production/test standard: US Federal Standard 209E / ISO-14644-1
- Guardtech provide as a full mobile workbench but units can be provided as just a bench top unit
- Shelves or Cupboards can be fitted under the bench
- Can be upgraded to ISO4 classification with ULPA filter



<b>Stainless Steel Frame</b>	GSVLA607590	GSVLA607512	GSVLA607515	GSVLA607518
<b>Powder Coated Frame</b>	GPVLA607590	GPVLA607512	GPVLA607515	GPVLA607518
<b>Outer Dimensions (WxDxH)</b>	1030 x 760 x 1250	1330 x 760 x 1250	1630 x 760 x 1250	1930 x 760 x 1250
<b>Work Space (WxDxH)</b>	900 x 660 x 750	1200 x 660 x 750	1500 x 660 x 750	1800 x 660 x 1250
<b>Noise Level @1.2m FFL</b>	<58db	<58db	<60db	<62db
<b>Air Velocity</b>	Average $0.45\pm20\%$ m/s $90\pm20\%$ FPM			
<b>ISO Classification</b>	ISO Class 5 as per ISO14644-1			
<b>Illumination</b>	>800 Lux (can be upgraded to 1700 Lux)			
<b>Filtration</b>	HEPA Filter Efficiency of 99.9995% at 0.3 Microns			
<b>Work Surface</b>	Grade 304 Stainless Steel (Trespa available on request)			

# HORIZONTAL LAMINAR FLOW UNIT



- Horizontal air stream producing clean air at ISO5
- All other features as per the list overleaf for the Vertical Laminar Flow Workstation

Horizontal Laminar Flow Work Stations are exactly the same design and specification as the vertical benches on the previous page, however in this configuration air passes from the rear of the unit horizontally through the open face.

The fan filter unit is oriented on the rear wall and drags air from behind the unit, through a G4 pre-filter, through the fan and over the H14 HEPA filter, directing air towards the operator.

The majority of cleanrooms are designed with vertical airflow, however some utilise horizontal flow and these work benches suit those environments particularly well by working with the airflow pattern of the room rather than creating unwanted turbulence. Horizontal work stations do not suit applications using hazardous or unpleasant chemicals as the fumes would be directed toward the operator.

<b>Stainless Steel Frame</b>	GSVHAF607590	GSHLAF607512	GSHLAF607515	GSHLAF607518
<b>Powder Coated Frame</b>	GPHLAF607590	GPHLAF607512	GPHLAF607515	GPHLAF607518
<b>Outer Dimensions (WxDxH)</b>	980 x 930 x 1110	1330 x 930 x 1110	1630 x 930 x 1110	1930 x 930 x 1110
<b>Work Space (WxDxH)</b>	900 x 600 x 660	1200 x 660 x 640	1500 x 660 x 640	1800 x 660 x 640
<b>Noise Level @1.2m FFL</b>	<58db	<58db	<60db	<62db
<b>Air Velocity</b>	Average 0.45±20% m/s 90±20% FPM			
<b>ISO Classification</b>	ISO Class 5 as per ISO14644-1			
<b>Illumination</b>	>800 Lux (can be upgraded to 1700 Lux)			
<b>Filtration</b>	HEPA Filter Efficiency of 99.9995% at 0.3 Microns			
<b>Work Surface</b>	Grade 304 Stainless Steel			



# DUCTLESS FUME CUPBOARDS

Ductless Fume Cupboard Work Stations provide the ultimate protection for operators working with harsh chemicals, acids, solvents and other materials that have potentially hazardous outgassing properties. The mobile ductless fume cupboard is a high quality, highly chemical resistant unit constructed fully from polypropylene. This unit is simple to use, requires no specialist fitting and is lightweight for easy manoeuvrability. The fume cupboard can either be used as a benchtop unit as seen in the image below or turned into a fully mobile unit by coupling it with the fume cupboard stand which gives increased versatility.

The unit has two power sockets, an integral LED light, fully adjustable fan and a air flow alarm.

A range of filters are available, please call for further details.



- Welded white polypropylene structure
- Built-in sealed polypropylene worktop
- Easily disassembled back wall
- Tempered glass sliding front window
- Monitor indicating fan's total working time, for tracking and filter replacement purposes
- Top quality, quiet fan manufactured by EBM Germany
- Eco-friendly, cost-effective 600-800 LUX LED lighting separate from the fuming hall.
- Wind speed at 0.6+0.1 m/s, 120±FPM
- Easy filter replacement
- Top filtration unit including filter(s)
- User-friendly touch-screen control system including fan speed control, low airflow alarm, light and operation time.

<b>Stainless Steel Frame</b>	GSDLFC127560	GSDLFC127512	GSDLFC127515	GSDLFC127518
<b>Powder Coated Frame</b>	GPDLC127560	GPDLC127512	GPDLC127515	GPDLC127518
<b>Outer Dimensions (WxDxH)</b>	600 x 750 x 1223	1200 x 750 x 1223	1500 x 750 x 1223	1800 x 750 x 1223
<b>Work Space (WxDxH)</b>	565 x 610 x 695	1185 x 610 x 695	1485 x 610 x 695	1785 x 610 x 695
<b>Noise Level @1.2m FFL</b>	<58db	<54db	<60db	<62db
<b>Air Velocity</b>	Average 0.6±0.1 m/s 120±20% FPM			
<b>Production Test Standard</b>	EN-14175 / CE / ASHRAE 110-1995 / ISO-9001:2008			
<b>Illumination</b>	>800 Lux (can be upgraded to 1700 Lux)			
<b>Filtration</b>	Pre, Carbon (Charcoal), Multi-Gas, HEPA, Acids, Acids & Bases, Formaldehyde			
<b>Work Surface</b>	Polypropylene (Trespa available on request)			

# DUCTED FUME CUPBOARDS

As per the specification for the Ductless Fume Cupboard, but rather than a re-circulating unit, the cabinet is ducted to an external space. Available in many bespoke configurations, please call Guardtech today to discuss your exact requirement and a site survey will be arranged to visit your premises and build a quote.

## SPECIFICATION

- Welded white polypropylene structure
- Built-in sealed polypropylene worktop
- Easily dissembled back wall
- Tempered glass sliding front window
- Monitor indicating fan's total working time, for tracking and filter replacement purposes
- Eco-friendly, cost-effective 600-800 LUX LED lighting separate from the fuming hall.
- Easy filter replacement
- Top filtration unit including filter(s)
- User-friendly touch-screen control system including fan speed control, low airflow alarm, light and operation time.
- Air Velocity:  $0.6 \pm 0.1 \text{ m/s}$ ,  $120 \pm 20 \text{ FPM}$
- Cabinet Material: Polypropylene
- Filter: Pre, Carbon (charcoal), Multi-gas, HEPA, Acids, Acids & Bases, Formaldehyde



<b>Stainless Steel Frame</b>		GSDTFC802312	GSDTFC802315	GSDTFC802318
<b>Powder Coated Frame</b>		GPDTFC802312	GPDTFC802315	GPDTFC802318
<b>Outer Dimensions (WxDxH)</b>		1200 x 805 x 2320	1500 x 805 x 2320	1800 805 x 2320
<b>Work Space (WxDxH)</b>		1000 x 630 x 1170	1300 x 630 x 1170	1600 x 630 x 1170
<b>Noise Level @1.2m FFL</b>		<54db	<60db	<62db
<b>Air Velocity</b>	Average $0.6 \pm 0.1 \text{ m/s}$ $120 \pm 20 \text{ FPM}$			
<b>Production Test Standard</b>	EN-14175 / CE / ASHRAE 110-1995 / ISO-9001:2008			
<b>Illumination</b>	>800 Lux (can be upgraded to 1700 Lux)			
<b>Filtration</b>	Pre, Carbon (Charcoal), Multi-Gas, HEPA, Acids, Acids & Bases, Formaldehyde			
<b>Work Surface</b>	Polypropylene (Trespa available on request)			

# NITROGEN GENERATORS

## NITROGEN GENERATOR



Guardtech Nitrogen Generators are a reliable and efficient alternative to conventional high pressure cylinder and liquid gas supplies. Taking away the on-going costs, safety considerations and transportation of traditional gas supplies, Guardtech's Nitrogen Generators are some of the most advanced and intelligent available. The control system gives the user all the information necessary to ensure an efficient and consistent supply of gas is always available. From the process to flow and alarms, including auto-start / stop function, Trend graphs, service alarm and service records page, there is simply no other laboratory nitrogen system quite like it.

Utilising the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high quality Nitrogen Gas at various flows and purities (see table below).

The Generators are controlled using the latest in HMI touch screen technology to display the process in real-time, inlet / outlet pressures, Trend graphs and much more.

The same technology can be applied on a much larger scale through Guardtech's industrial Nitrogen Generators, please contact Guardtech to discuss your process and requirement.

Other gases available, including:

- Liquid Nitrogen
- Hydrogen
- Zero Nitrogen
- Zero Air
- Pure Air

Typical payback time of a Nitrogen Generator is between 2 and 3 years.



Generator	Flow Rate	Purity	Pressure	L	W	H	+ Compressor	- Compressor
GT1-1	1.0 l/min	99.9995%	75.0 psi g	300	320	650	GNGCM1999995	GNGNC1999995
GT3-3	3.0 l/min	99.9995%	75.0 psi g	660	400	700	GNGCM3999995	GNGNC3999995
GT4-4	4.0 l/min	99.95%	80.0 psi g	550	320	650	GNGCM4009995	GNGNC4009995
GT6-6	6.0 l/min	99.9995%	100.0 psi g	660	400	700	GNGCM6999995	GNGNC6999995
GT6-10	10.0 l/min	99.99%	100.0 psi g	660	400	700	GNGCM1009999	GNGNC1009999
GT6-16	16.0 l/min	99.9%	100.0 psi g	660	400	700	GNGCM1600999	GNGNC1600999
GT6-25	25.0 l/min	99.5%	100.0 psi g	660	400	700	GNGCM2500995	GNGNC2500995
GT6-30	30.0 l/min	99%	100.0 psi g	660	400	700	GNGCM3000099	GNGNC3000099

# AIR SHOWERS

## AIR SHOWER

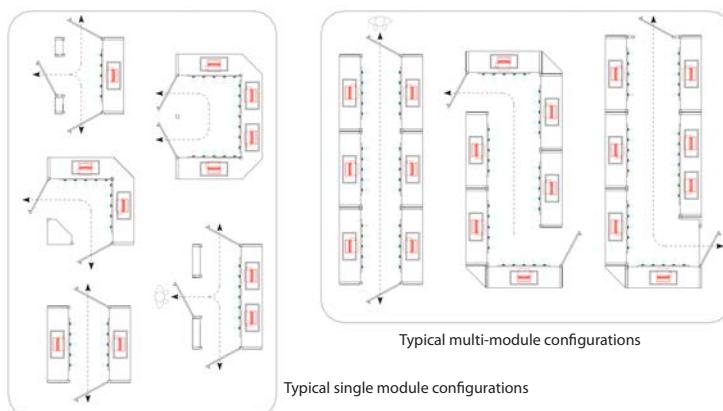
Air Showers are installed between change areas and classified rooms or between lower and higher grade classification rooms in cleanrooms and controlled environments. Air Showers are self-contained units with single or double sided high velocity HEPA filtered air jets which bathe or scrub the user/product whilst transferring between areas. The contaminated air is then extracted at low level and re-circulates through the filtration process

- Available in Grade 304 Stainless Steel, Polypropylene or Powder Coated Steel
- Available in one person or two person configuration
- 100% recirculatory. Air is discharged via high velocity discharge nozzles and recirculated at low level back to the fan and filter section within the shower.
- Internal LED Lighting providing illumination of 500 Lux
- Interlocked doors with emergency override
- HEPA filtration with 99.997% efficiency at 0.5 micron
- Dedicated PLC controller with adjustable timer function.
- Available connection to client Fire Alaram and BMS
- Easy to replace G4 pre-filters and H14 HEPA filters
- Emergency Stop button installed and connection available for alarm sounder/beacon



Fits	Airflow	L	W	H	Stainless Steel	Polypropylene	Powder Coated
1 Person	Double Sided	1500	1000	2200	GSAS1D151022	GPAS1D151022	GCAS1D151022
1 Person	Single Sided	1100	1000	2200	GSAS1S111022	GPAS1S111022	GCAS1S111022
2 Person	Double Sided	1500	2000	2200	GSAS2D152022	GPAS2D152022	GCAS2D152022
2 Person	Single Sided	1000	2000	2200	GSAS2S102022	GPAS2S102022	GCAS2S102022

Also available in bespoke sizes and configurations



# ISOPOD MODULAR

**ISOPOD** is a revolutionary new concept in **Modular Cleanroom** Design & Build. ISOPODs are high performance controlled environments, which can be **self-assembled** and **fully customisable** to best utilise the host room they are installed in. Combining high quality construction materials with state of the art Cleanroom technology, ISOPODs are the perfect solution to upgrading your production environment in a sustainable, practical and cost-effective way.

ISOPODs can be **reconfigured**, **relocated**, **extended** and **upgraded** - growing alongside your business, evolving with your needs. Shipped worldwide ready for quick and simple self assembly, supported by full installation instructions and demonstration movies.

Alternatively these can be delivered & installed quickly by the experienced ISOPOD engineers.

- Ships Worldwide for Self Assembly
- Can be Reconfigured, Relocated and Extended
- Available as Hardwall, Softwall or Hybrid Cleanroom
- Changing Room / Materials Interlock Modules
- Can be Static or Mobile on casters
- Can be upgraded or modified as your business grows
- Energy Efficient - Only control the area that requires it
- Can be branded in corporate colours, logo, graphics
- Removable Panels for Equipment Transfer
- Glazing can be added to any Hardwall Configuration



Honeycomb Insulated Cleanroom Panels



Aluminium or 304 Stainless Steel



Flush suspended ceiling grid & tiles



## STRUCTURAL COMPONENTS



Cleanroom Doors & Frames included



Tall Double Glazed units available



High Efficiency LED Cleanroom Lights



Heavy duty levelling casters available

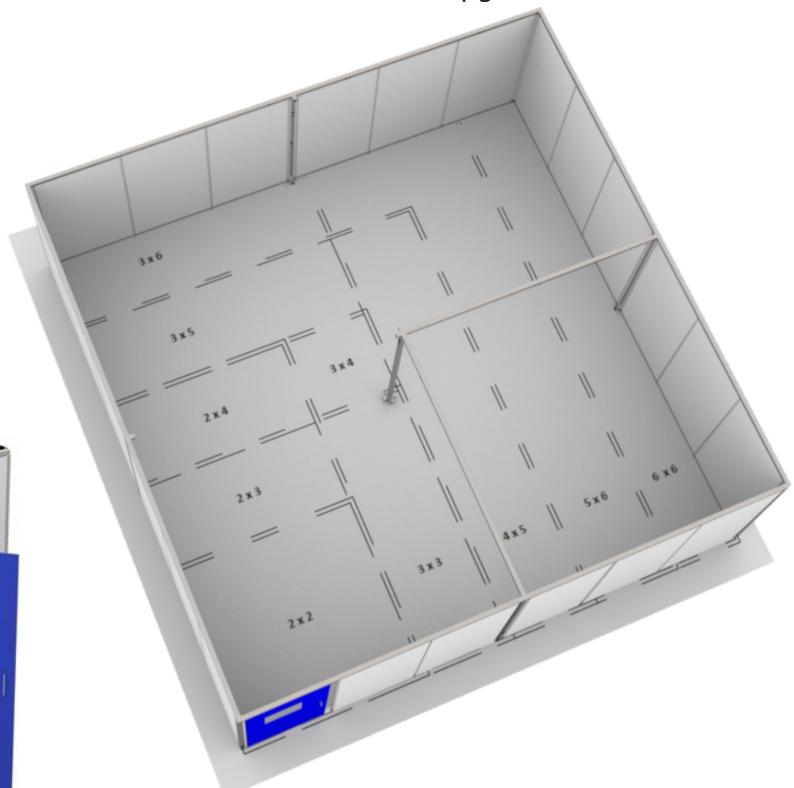
# ISOPOD HARDWALL

## HARDWALL ISOPOD

Hardwall ISOPODs utilise an alluminium framework with stainless steel connectors accomodating powder coated mild steel faced modular panels insulated with a honeycomb composite material internally. The ceiling is a heavy duty cleanroom grade ceiling grid with powder coated steel tiles suspended from the ISOPOD framework. Doors are powder coated mild steel and are ready to be hung directly onto the framework, with grade 316 stainless fixing and fixtures and flush double glazed vision panel. Double glazed window units can be added to any hardwall ISOPOD, and there are a host of available upgrades.

## TECHNICAL COMPONENTS

- Modular Interlocking Honeycomb Composite
- Powder Coated Steel Panels
- Fan Filter Units: H14 HEPA & G4 Pre Filters
- 4000Lm Low Energy LED Light Panels
- Variable Fan Speed Controller
- 13amp Powers & CAT 5e Data Sockets



## POPULAR UPGRADES

- Flush stainless steel 13amp double sockets and CAT5E network points.
- Pressure, Temperature & Humidity Sensors & Monitoring Software.
- Rapid Roll Doors or GRP Doors.
- Hybrid: Softwall section for equipment transition into the cleanroom.
- Flush Double Glazed Windows.
- Electronic Door Interlocks

ISO	2 x 2m	2 x 3m	2 x 4m	3 x 3m	3 x 4m
8	GTHNISO822	GTHNISO823	GTHNISO824	GTHNISO833	GTHNISO834
7	GTHNISO722	GTHNISO723	GTHNISO724	GTHNISO733	GTHNISO734
6	GTHNISO622	GTHNISO623	GTHNISO624	GTHNISO633	GTHNISO634
5	GTHNISO522	GTHNISO523	GTHNISO524	GTHNISO533	GTHNISO534

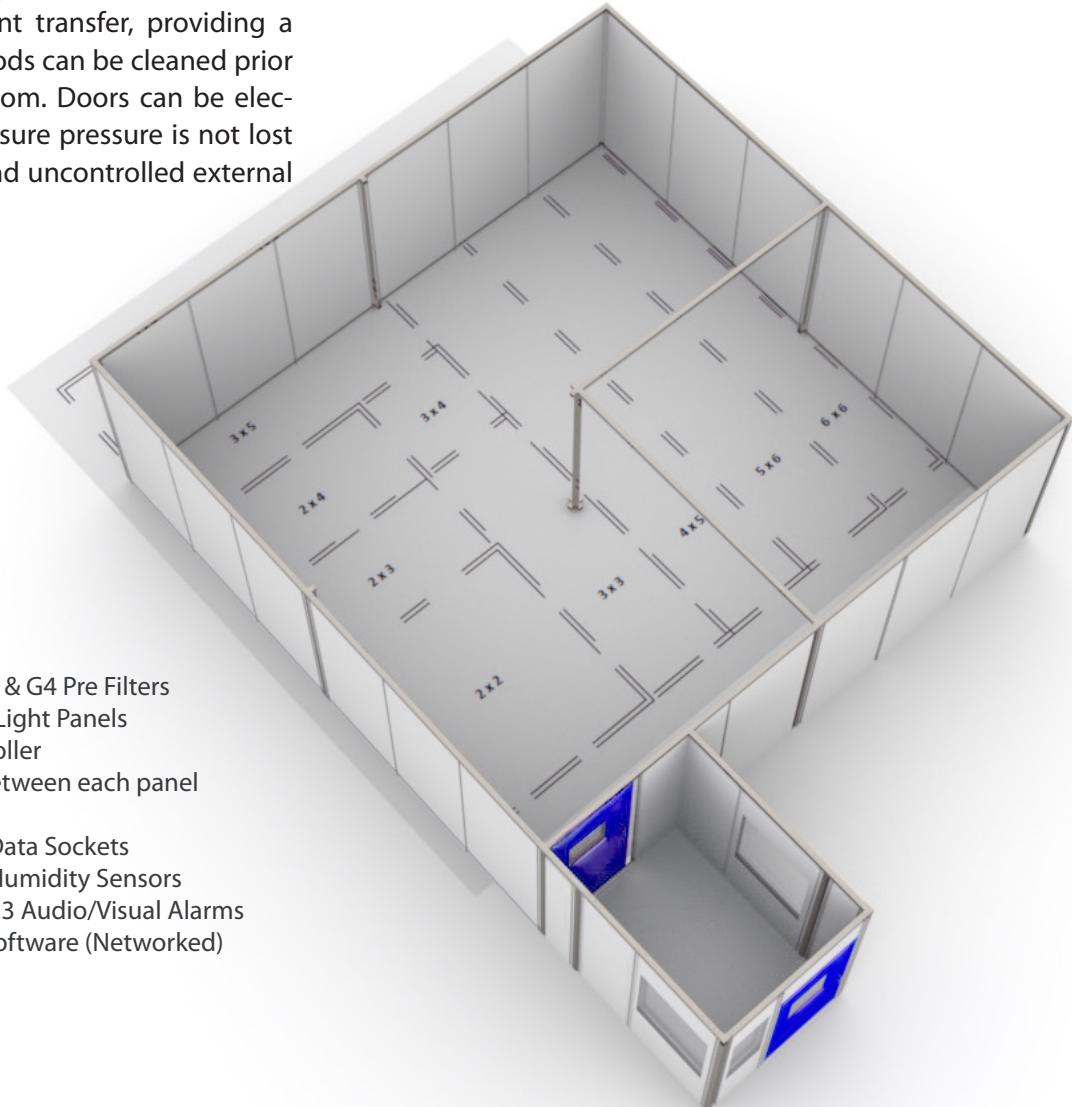
ISO	3 x 5m	3 x 6m	4 x 5m	5 x 6m	6 x 6m
8	GTHNISO835	GTHNISO836	GTHNISO845	GTHNISO856	GTHNISO866
7	GTHNISO735	GTHNISO736	GTHNISO745	GTHNISO756	GTHNISO766
6	GTHNISO635	GTHNISO636	GTHNISO645	GTHNISO656	GTHNISO666
5	GTHNISO535	GTHNISO536	GTHNISO645	GTHNISO556	GTHNISO566



# HARDWALL + CHANGE ROOM

## CHANGE ROOM CONFIGURATIONS

ISOPODs can also be configured to include airlocks for material and equipment transfer, providing a controlled lobby where goods can be cleaned prior to entrance to the Cleanroom. Doors can be electronically interlocked to ensure pressure is not lost between the Cleanroom and uncontrolled external environment.



- Fan Filter Units: H14 Hepa & G4 Pre Filters
- 4000Lm Low Energy LED Light Panels
- Variable Fan Speed Controller
- Flush Service Channels between each panel
- **Also Available:**
- 13amp Powers & CAT 5e Data Sockets
- Pressure, Temperature & Humidity Sensors
- Digital Display Panel with 3 Audio/Visual Alarms
- Continuous Monitoring Software (Networked)

PLEASE NOTE: Change & Interlock Dimensions are *external to* the footprint of the ISOPOD as per the visualisation above

SIZE	ISO8	ISO7	ISO6	ISO5	Change Dimensions
<b>2 x 3m</b>	GTHCISO823	GTHCISO723	GTHCISO623	GTHCISO523	1m x 1m
<b>3 x 3m</b>	GTHCISO833	GTHCISO733	GTHCISO633	GTHCISO533	1m x 1m
<b>3 x 4m</b>	GTHCISO834	GTHCISO734	GTHCISO634	GTHCISO534	1m x 1m
<b>4 x 4m</b>	GTHCISO844	GTHCISO744	GTHCISO644	GTHCISO544	1.5m x 1.5m
<b>4 x 5m</b>	GTHCISO845	GTHCISO745	GTHCISO645	GTHCISO545	1.5m x 1.5m
<b>5 x 5m</b>	GTHCISO855	GTHCISO755	GTHCISO655	GTHCISO555	2m x 1.5m
<b>5 x 6m</b>	GTHCISO856	GTHCISO756	GTHCISO656	GTHCISO556	2m x 1.5m
<b>6 x 6m</b>	GTHCISO866	GTHCISO766	GTHCISO666	GTHCISO566	2.5m x 1.5m

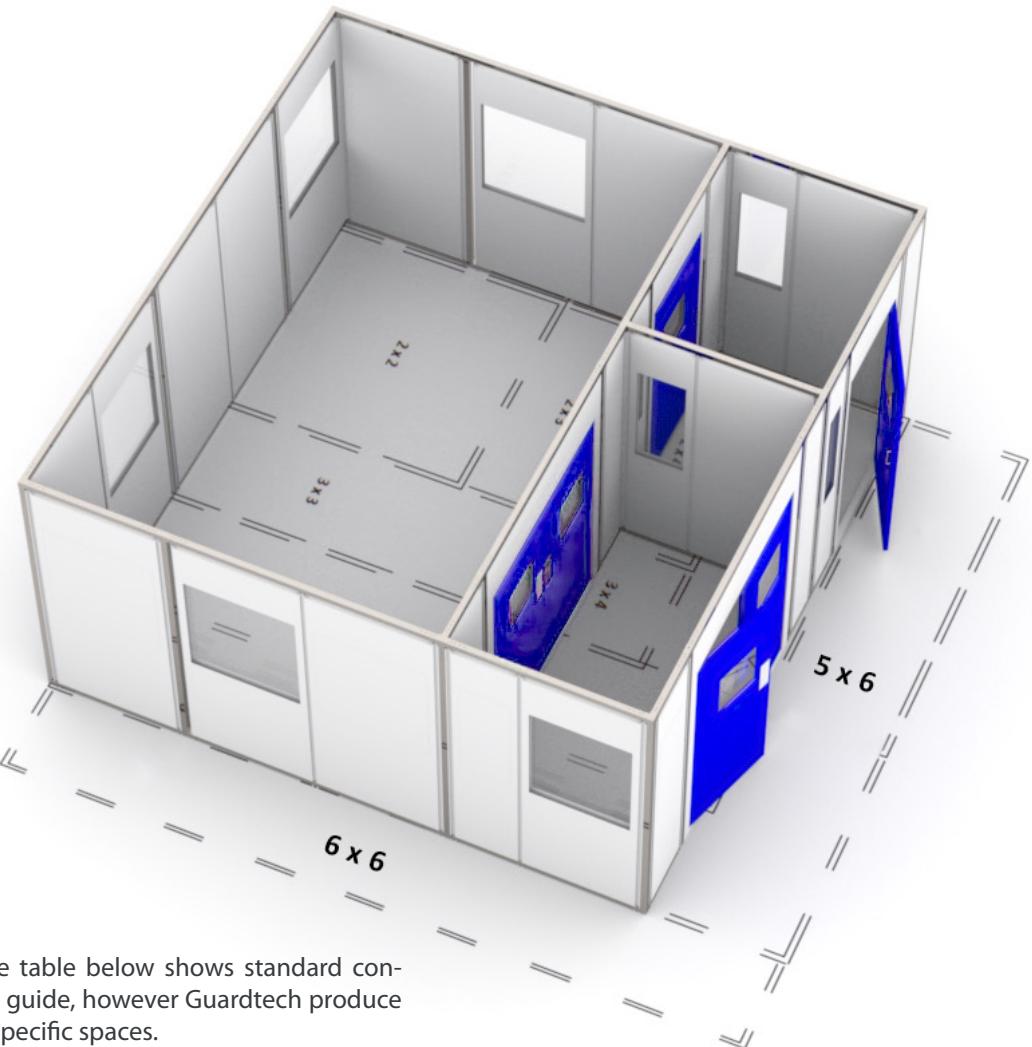
- All sizes in the table are approximate and rounded up to the nearest 0.5m

# HARDWALL + CHANGE & INTERLOCK

## CHANGE & INTERLOCK CONFIGURATIONS

ISOPODs can also be configured to include airlocks for material and equipment transfer, providing a controlled lobby where goods can be cleaned prior to entrance to the Cleanroom. Doors can be electronically interlocked to ensure pressure is not lost between the Cleanroom and uncontrolled external environment.

- Divide between Change and the Interlock can be re-apportioned to suit.
- Rapid roller doors can be installed as an air tight alternative to maximise footprint and improve material flow.
- Interlock space can be divided to create a separate 'Goods In' and 'Goods Out' lobby to minimise the risk of cross contamination.
- Doors can be electronically interlocked and linked to access control and fire alarm.



**BESPOKE CONFIGURATION:** The table below shows standard configurations which are useful as a guide, however Guardtech produce many bespoke ISOPODs to suit specific spaces.

PLEASE NOTE: Change & Interlock Dimensions are *within* the footprint of the ISOPOD as per the visualisation above

SIZE	ISO8	ISO7	ISO6	ISO5	Change Dimensions	Interlock Dimensions
<b>4 x 4m</b>	GTHAISO844	GTHAISO744	GTHAISO644	GTHAISO544	1.5m x 1.5m	2.5m x 1.5m
<b>4 x 5m</b>	GTHAISO845	GTHAISO745	GTHAISO645	GTHAISO545	1.5m x 1.5m	2.5m x 1.5m
<b>5 x 5m</b>	GTHAISO855	GTHAISO755	GTHAISO655	GTHAISO555	2m x 1.5m	3m x 1.5m
<b>5 x 6m</b>	GTHAISO856	GTHAISO756	GTHAISO656	GTHAISO556	2m x 1.5m	3m x 1.5m
<b>6 x 6m</b>	GTHAISO866	GTHAISO766	GTHAISO666	GTHAISO566	2.5m x 1.5m	3.5m x 1.5m

- All sizes in the table are approximate and rounded up to the nearest 0.5m

# ISOPOD SOFTWALL

## SOFTWALL ISOPOD

Softwall ISOPODs utilise an alluminium framework (can be upgraded to 304 stainless steel) with stainless steel connectors accomodating anti-static PVC strip curtain attached to the framework on stainless hangers. The ceiling is a heavy duty cleanroom grade ceiling grid with powder coated steel tiles suspended from the ISOPOD framework. LED Lights and Fan Filter Units sit within the ceiling grid and are suspended from the framework, operated by a control panel with switches and fan speed controllers.

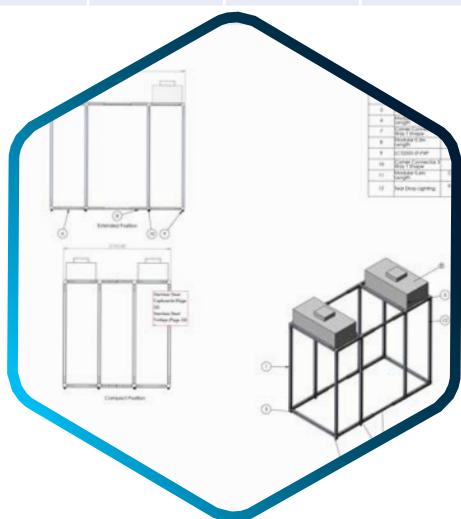
Changing rooms, interlocks and dividing walls can be added to create multi-room softwall ISOPODS and there are a host of available upgrades.



## TECHNICAL COMPONENTS

- Fan Filter Units: H14 Hepa & G4 Pre Filters
- 4000Lm Low Energy LED Light Panels
- Variable Fan Speed Controller
- Anti-static PVC Strip Curtain
- Heavy-Duty Casters or Floor Fixing Kit
- **Also Available:**
- 13amp Powers & CAT 5e Data Sockets
- Pressure, Temperature & Humidity Sensors
- Digital Display Panel with 3 Audio/Visual Alarms
- Continuous Monitoring Software (Networked)

ISO	2x2	2x3	2x4	3x4	3x5	3x6	4x5	5x6
8	GTISO822	GTISO823	GTISO824	GTISO834	GTISO835	GTISO836	GTISO845	GTISO856
7	GTISO722	GTISO723	GTISO724	GTISO734	GTISO735	GTISO736	GTISO745	GTISO756
6	GTISO622	GTISO623	GTISO624	GTISO634	GTISO635	GTISO636	GTISO645	GTISO656
5	GTISO522	GTISO523	GTISO524	GTISO534	GTISO535	GTISO536	GTISO645	GTISO556



## EXTENDABLE

When space is an issue, the softwall ISOPOD can be extended to be stored in a smaller configuration and then wheeled out and extended when required .

ISO	Unextended	Extended	Product Code
8	1.6x1.6	1.6x2.2	GTISOE81616
7	1.6x1.6	1.6x2.2	GTISOE71616
6	1.6x1.6	1.6x2.2	GTISOE61616
5	1.6x1.6	1.6x2.2	GTISOE51616





# THE **CLEANROOM CATALOGUE**



**Guardtech**  
cleanrooms



**TELEPHONE:**  
+44(0)33 011 30303



**ADDRESS:**  
Unit C The Brocks Business  
Centre, Homefield Road  
West, Haverhill, Suffolk,  
CB9 8QP



**WEBSITE:**  
[www.guardtech.com](http://www.guardtech.com)