TERRA UNIVERSAL®



CLEANROOMS

Modular and Stick-Built Designs and Accessories

TERRA UNIVERSAL, INC.
Tel: **+1 (714) 578-6100** or Email: **info@terrauniversal.com**
800 South Raymond Ave., Fullerton, CA 92831

TERRA UNIVERSAL®

About Terra Universal

Terra Universal designs, manufactures, and stocks comprehensive lines of cleanrooms, air filtration systems, and cleanroom equipment.

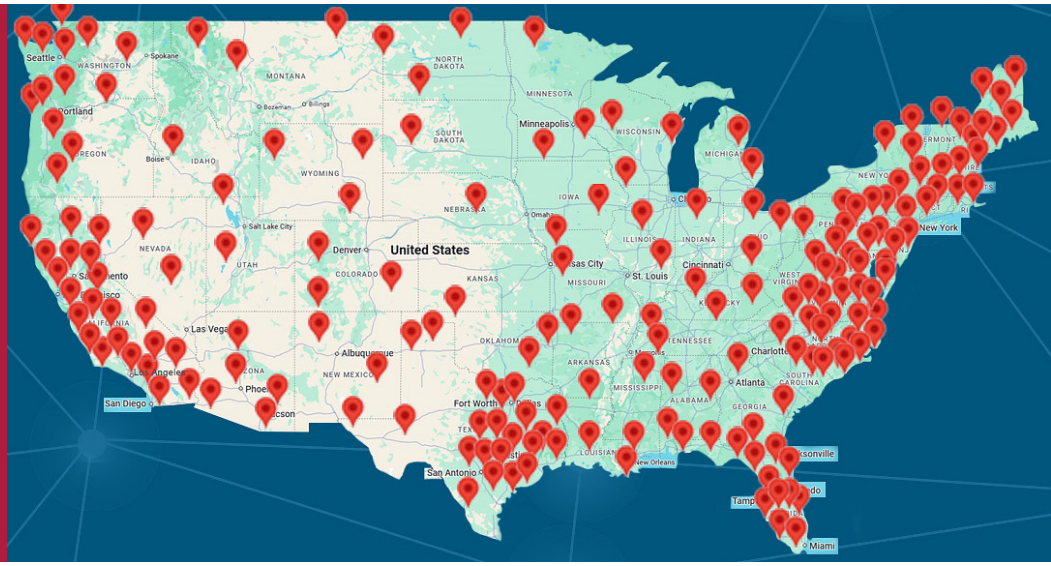
Trusted since 1975, Terra Universal has developed and manufactured innovative cleanroom solutions for over 50 years. Combining high-throughput, automated manufacturing and extensive inventory, Terra delivers cleanrooms of any design, size, and complexity with industry-best build times.

Terra builds and installs over 500 cleanrooms per year. All cleanroom components are pre-engineered, quality control tested, and stocked for quick integration and assembly. Terra also offers a wide range of value-add services, including cleanroom installation, structural seismic analysis, expedited production, qualification documentation and extended warranties. Order-specific certificates of compliance document each product's adherence to ISO, UL, OSHA and seismic standards.

The leader in Critical Environment Solutions®, Terra also designs, manufactures, and stocks comprehensive lines of cleanroom components and equipment, including: cleanroom doors and windows, pass through chambers, laminar flow and fume hoods, biosafety cabinets, desiccator cabinets, glove box isolators, cleanroom furniture, and other laboratory equipment.

End-to-End Cleanroom Solutions

NATIONWIDE CLEANROOM CONSTRUCTION



2,000 + CLEANROOMS INSTALLED SINCE 2017

Multi-building, high capacity manufacturing line

Main campus located in Southern California

Founded in 1975

Global Pricing and Secure Shipping

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Long Standing Reputation

Since 1975, Terra has successfully designed, manufactured, and installed thousands of cleanrooms worldwide to customers in the pharmaceutical, biomedical, life science, aerospace and semiconductor industries. Terra's key customers include the largest research and production facilities across the globe.

Semiconductor	Aerospace	Medical/Hospital	Medical Device
Hitachi Global	Boeing	Kaiser Permanente	Siemens Health Care
Lexmark Intl.	Lockheed Martin	Mountain State Health	Bacterin International
KLA-Tencor	Rockwell Collins, Inc.	NIH	OPKO Diagnostics
Intel	Raytheon Systems	VA Hospitals	Medtronic, Inc.
IBM	JPL	Cardinal Health	Abbott Labs
Samsung	Spacex	St. Jude Medical	Covidien/Tyco Healthcare
Hewlett Packard	Northrop Grumman	Carestream Health	Cameron Health
GE	Lawrence Livermore	Providence Health	GE Healthcare
Qualcomm	Sandia National Labs	Baylor Health Care	Ethicon, Inc.
Triquint	Teledyne	Mayo Clinic	Boston Scientific

Biotechnology	Pharmaceutical	Universities	Other Key Clients
Millipore Corporation	Pfizer, Inc.	Ohio State University	Google
Genzyme Corporation	Genentech	Duke University	Kimberly Clark
Organogenesis, Inc.	Baxter Healthcare	Penn State University	3MM
Meridian Bioscience	Amgen, Inc.	UCSF	FLIR Systems
Affymetrix, Inc.	Teva Pharmaceuticals	UNC	Moog Inc
Celgard, LLC	Merck	Case Western Reserve	NIST
Life Technologies	GlaxoSmithKline	University of Texas	Naval Research Lab
Becton Dickinson	Johnson & Johnson	MIT	Kewaunee Scientific
MedImmune, Inc.	Watson Labs	Harvard	Corning
Alcon Labs	Gilead	University of Toronto	Dow Chemical

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Critical Environment Solutions

Proven Experience

★★★★★ **4.9** Google Reviews

★★★★★ Trustpilot
Based on 1200+ Reviews!

Seamless Facility Expansion

Michelle was extremely helpful in guiding us through the cleanroom selection process for our fabrication facility expansion. We had specific delivery requirements that she expertly coordinated to meet our needs. Terra Universal's responsive communication throughout the entire process ensured our project ran smoothly from start to finish.

★★★★★

Qorvo
Brett Murphy
Sr Mechanical Engineer

Repeat Customer - Superb Service and Speed

Terra Universal consistently delivers outstanding service and support that exceeds expectations. I recently purchased my third cleanroom from Terra, and my sales rep Andre Vignau was exceptionally helpful throughout the process. He went above and beyond to accommodate my urgent rush order and was instrumental in meeting all key requirements.

★★★★★

Aero Packaging
Carolle
CEO

Custom Cleanroom, Off-the Shelf Simplicity—Certified in 3 Days

We are a Pharma testing lab in New Jersey and needed a clean room for our expanding business. We are extremely pleased with the installation. It is not only fully functional, but looks terrific - lots of compliments. We had signed a contract with another firm previously, but opted out when we saw the Terra Universal product. It looked WAY better and was actually less expensive. Ray San Filippo of TU was extraordinarily helpful during the design stage - which was very important as this was our first clean room. The clean room we purchased included the walls, ceiling, FFUs, lights, pass thru and doors. For the installation we basically created a custom unit out of standard parts sourced from Home Depot, Amazon, etc. We chose to do the electrical, magnahelics, UVs and external air handling ourselves. Any competent contractor should be able to do the install without any problems or previous clean room experience. In 3 days we were ready for certification.

★★★★★

Pharmaceutical Testing
Lou Lu
Project Manager

Superb Technical Support

I have been working with Taso Giokas for a couple of months now as the company I work for details out our cleanroom needs. He has been very helpful in guiding us through the nuances of getting a cleanroom on order. I would definitely recommend working with Terra because they will go the extra mile to help you understand your available choices

★★★★★

Turion Space
Ingrid Roldan
Senior Mission Manager

Smooth, Swift, and Stylish

Great working with Taso at Terra Universal! He is incredibly quick to respond and provide helpful feedback during the entire quote, order/build/delivery, and assembly/ start-up process. The reverse-flow cleanroom looks great and works well too!

★★★★★

Molten Industries
Caleb Boyd
Co Founder







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Cleanroom Exceeds Expectations

We purchased a modular cleanroom last year, and it has performed exceptionally well for all of our applications. The ongoing support has been both timely and effective across all areas of service. Chris Taylor was particularly helpful in guiding us through the various configuration options and provided quick turnaround times on both quotes and orders. We highly recommend Terra's cleanroom solutions.

★ ★ ★ ★ ★

Teva Pharmaceuticals
Dax Lamar
Biological Researcher II

Excellent Service and On-Time Delivery for Our Cleanroom

We ordered two sets of 12x20ft cleanrooms and put them next to each other to create a bigger clean space. I've been working with Taso throughout the project and it has been a great and happy experience. He always responds to our emails in the same day even for ones in late hours. We were given very helpful guidance to select the product and clear instructions to set things up. Both orders arrived on time with good quality packaging and protection.

★ ★ ★ ★ ★

Applied Materials
Daihua Zhang
Director of System Engineering

Flexible Cleanroom Solutions for Fast-Growing Needs

Inkbox has been using Terra Universal clean rooms for over two years, and they've enabled us to grow our business without costly building renovations. When our requirements change, we simply purchase additional clean rooms to meet our needs.

★ ★ ★ ★ ★

Inkbox Ink
Diego Giugovaz
Lead Process Engineer









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Terra's Capabilities

01 Scope Definition and Cleanroom Design

During this initial phase, Terra's in-house team generates a detailed quote for the cleanroom portion of the project while defining the classification requirements, regulations, and technical specifications. The scope of the entire project is codified, including timeline, delivery schedule, critical terminations, and coordination with outside stakeholders.

02 Engineering

During the project-engineering phase, Terra's in-house mechanical engineers design the cleanroom footprint while working in tandem with our strategic partners to produce HVAC, mechanical, electrical and plumbing definitions.

03 Manufacturing and Construction

After project release, Terra manufactures all modular cleanroom components, including wall panels, ceilings, filter fan units, entry doors, viewing windows, pass through chambers, storage solutions and furniture at our 350,000 square foot manufacturing campus in Southern California. All cleanroom components are manufactured using high-precision fabrication machinery, tested to ensure quality, performance guaranteed, and delivered on time to the construction site. No matter the scale of the project, Terra's high capacity, streamlined production line is capable of manufacturing your cleanroom at industry-leading build times.

04 Procurement

Leveraging Terra's network of over 80 major suppliers and vendors, our project management team coordinates with project stakeholders to ensure cost savings and timely delivery of value-add products from brands like Labconco, Thermo Fisher, Metro, Eagle, Biofit, Rubbermaid, Germfree and more.

05 Shipping, Installation, and Logistics

Terra's logistics team coordinates with vendors, suppliers and project stakeholders to ensure consolidated, timely delivery of the cleanroom, and all associated equipment, to the construction site. Specialty freight services, such as white glove delivery, overnight shipping, and weekend deliveries are available. Terra's experienced, skilled installation team executes zone-build methodology, coordinates with specialty tradesmen, performs on-site validation, and handles equipment move-in.

06 Cleanroom Start-Up and Pre-Validation

During cleanroom pre-certification and pre-validation, Terra's engineers perform an array of tests to ensure the cleanroom operates according to design objectives and specifications, including air balancing, particulate counts, atmospheric control, air changes and pressurization. If required, equipment validation and testing, such as IQ, OQ and PQ, is performed and submitted prior to close-out inspection.

07 Maintenance

Terra's offers an array of comprehensive 24/7 service programs, such as planned maintenance, cleanroom shutdown and decommissioning, testing and balancing, filter replacement and equipment installation.

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Cleanroom Solutions & Expertise

Terra Universal stands as a comprehensive cleanroom solutions provider, specializing in both traditional design-build construction and innovative modular cleanroom systems. With decades of experience serving industries from pharmaceuticals and biotechnology to aerospace and microelectronics, we deliver turnkey cleanroom projects ranging from compact 100-square-foot environments to expansive 50,000-square-foot facilities.



What sets Terra Universal apart is our unique dual capability: we offer conventional cleanroom construction with integrated architectural, HVAC, and electrical services for complex, permanent installations, while simultaneously maintaining California-based manufacturing facilities that can ship prefabricated modular cleanrooms within 1 to 3 business days. This versatility allows Terra to serve both long-term strategic projects requiring custom engineering solutions and rapid deployment needs where speed-to-market is critical, ensuring compliance with stringent regulatory standards across all applications while eliminating the complexity of managing multiple vendors.

Cleanroom Construction

Terra Universal specializes in cleanroom construction and design build solutions, offering comprehensive services from initial consultation to turnkey installation. Our expert team ensures your cleanroom project benefits from state-of-the-art technology and precision engineering, delivering solutions tailored to meet your industry's stringent requirements.

With decades of experience in design and construction, Terra Universal provides cleanroom solutions for projects of all sizes, ranging from 100-square-foot environments to expansive 50,000-square-foot facilities. Our cleanroom systems are engineered to fit a wide range of applications, providing rapid, efficient installations that minimize disruption and deliver long-term value.

By integrating architectural, HVAC, and electrical disciplines into our design and build process, we offer a seamless, hassle-free experience from concept to completion. Our approach eliminates the complexity of managing multiple vendors, ensuring your project is completed on time and within budget.

We serve a wide range of industries, including pharmaceuticals, biotechnology, medical devices, aerospace, defense, microelectronics, and advanced manufacturing, ensuring compliance with strict regulatory standards through our expert-driven design build approach.

Terra works with your engineers to ensure that drawings are carefully evaluated and approved before work begins, eliminating last-minute surprises that can disrupt a tight schedule. Terra maintains an on-site staff of engineers ready to design custom solutions to your specifications. Terra will provide formal quotations based on detailed drawings. A comprehensive library of CSI 3-part specifications, BIM drawings, and CAD files further streamline the specification process.







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Modular Cleanrooms

Terra Universal designs, builds, and installs modular cleanrooms for every application. Unique in the industry, we offer a vast selection of prefabricated and in-stock modular cleanrooms, available to ship from our California manufacturing facilities within 1 to 3 business days.

Because they can be built and installed in a fraction of the time associated with brick-and-mortar clean rooms, modular cleanrooms are ideal for fast ramp-up projects or short production cycles that may not merit the expense and delay of a conventional room.

BioSafe® Wall Panel





BioSafe® Wall Panel Systems combine modular pre-fabricated design principles with the seamless sterile wall design of traditional stick-built cGMP cleanrooms. Seamless coved transitions between ceiling, walls, and floors support ISO 4 - 8 classes, GMP A-D, GLP, ASTM, and IEST requirements.

These UL-tested wall panels deliver laboratory-verified structural integrity for the most demanding projects. Unlike other modular designs, BioSafe® Wall Panel Systems are not limited by overhead clearance, size, shape, or pathways within the site

Cleanroom wall panels are available with a variety of cores such as lightweight foam or fire-rated aluminum honeycomb.

Turnkey BioSafe® cleanroom systems ship within 20 - 30 days including prefabricated wall panels and ceilings, UL-listed filter fan units, lights, power distribution systems, and control panels.

Hardwall



Hardwall modular cleanrooms provide a completely enclosed, rigid free-standing structure with light-weight and rigid transparent walls. Terra Universal pre-fabricates the framing from powder-coated or stainless steel; rigid wall panels are available in clear acrylic, static-dissipative PVC, polycarbonate and tempered glass. Opaque white polypropylene is also available for privacy and chemical applications.

Hardwall clean rooms can maintain pressure differentials required to meet ISO 4 – 8 cleanliness ratings, as well as USP <797/800> pharmaceutical compounding regulations. Hardwall designs are also ideal for maintaining positive or negative pressure gradients, as well as temperature and humidity control.

Softwall



Softwall modular cleanrooms use a simpler steel frame structure with flexible PVC (or non-out-gassing Polysim) wall curtains. The curtain design makes softwall cleanrooms lower-cost and easier to install than rigid wall cleanrooms. They are typically used in Class 100 – Class 100,000 cleanliness ratings. Due to the open curtain design, they are not suitable for maintaining pressure gradients and not recommended for temperature or humidity control.

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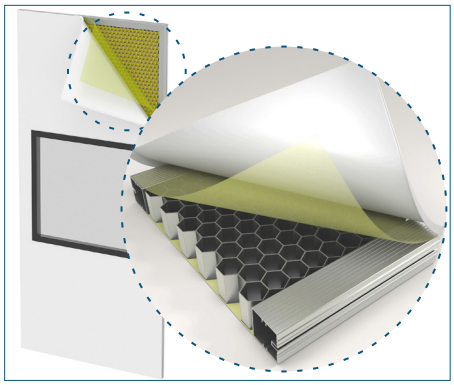
Cleanroom Components

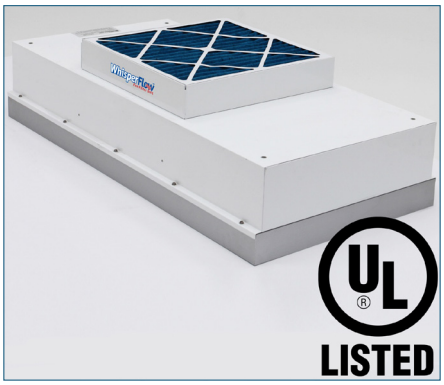
Wall & Ceiling Systems

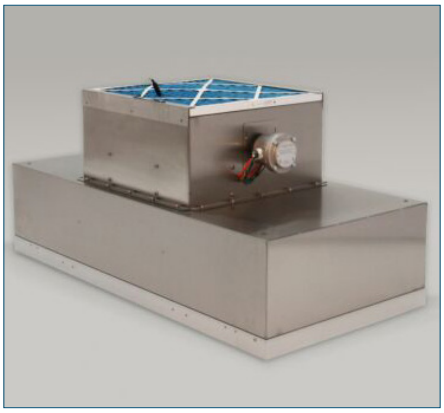




- Prefabricated and demountable uPVC sandwich wall panels with aluminum honeycomb or foam cores compliant with ISO-14644, cGMP, GLP, ASTM and IEST requirements.
- Fully monolithic and flush-mount connecting wall panel system features seamless coved transitions between ceiling, walls, and floors for easy cleaning (not a panel-post system with gaps and ledges).
- Wall panels constructed with durable, GMP-rated materials resistant to scratches, corrosion, and common disinfectants such as Spor-Klenz, quaternary and phenolic cleaners.
- Cleanroom ceiling grids support direct integration of FFUs, lights, and utilities. ISO 4-8 cleanroom compliant designs feature sealed, easy-to-clean, and durable finishes.

Filter Fan Units





- UL-listed, ISO-rated, and CE-marked
- Thousands of units stocked for immediate shipment
- Choose from room-side and top-side replaceable systems
- Select from energy saving EC and standard AC motors
- HEPA and ULPA filtered models
- Wide selection of specialty configurations
  - Battery powered
  - Integrated LED light and ionizer
  - Explosion-proof (Class 1/ Division 1)
  - Reverse flow
  - Laminar flow terminal diffusers
  - Low profile and narrow footprint designs
  - GMP-compliant stainless steel models
- Optional audible filter replacement alarm system

Pass Through Chambers





- Select from wall-mount or floor-mount models
- BioSafe® units feature rounded corners and autoclave-safe doors
- Smart units include an array of optional upgrades
  - HEPA Filtration
  - Refrigeration
  - UV Sterilization
  - Automatic, hands-free doors
  - Key Card Readers
  - Biometric Scanners
- All units include interlocks to prevent cross-room contamination
- CleanMount® systems install flush to the cleanroom wall
- CleanSeam™ units eliminate crevices where microbes colonize
- Popular models in stock for immediate shipment

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UL-Listed Power and Control Systems

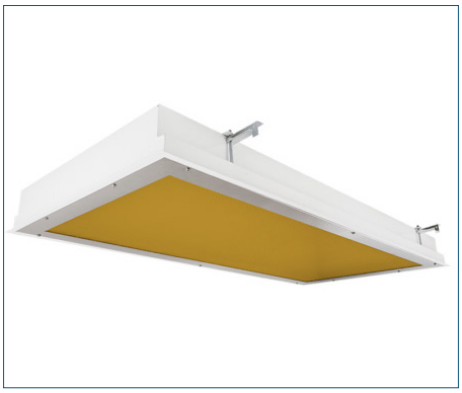




- Powers complete network of FFUs, lights, duplex outlets
- Scalable, plug-and-play system completely eliminates hard wiring
- Streamlines room permitting, compliance and certification
- Optimizes cleanroom relocation, maintenance and filter replacement
- Supports rapid cleanroom installation for time-sensitive projects
- Significant cost savings compared to standard, hard-wired systems

Cleanroom Lighting





- UL-listed, ISO-rated LED panels stocked for immediate delivery
- LED lights reduce cooling costs, exhibit longer life spans
- Choose from white, amber, red and blue colors
- Battery-powered LED emergency lights available
- Germicidal UV lighting available for GMP, biologics applications
- Teardrop and strip lighting for ISO class 4 and 5 environments

HVAC and Accessories





- HVAC and modular air conditioning systems
- Fire suppression and sprinkler systems
- Cleanroom intercoms, talk through panels, and phone systems
- Bumper rails and crash guards
- Access controllers: Biometric key cards readers, fingerprint scanners, and iris scanners

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Cleanroom Windows

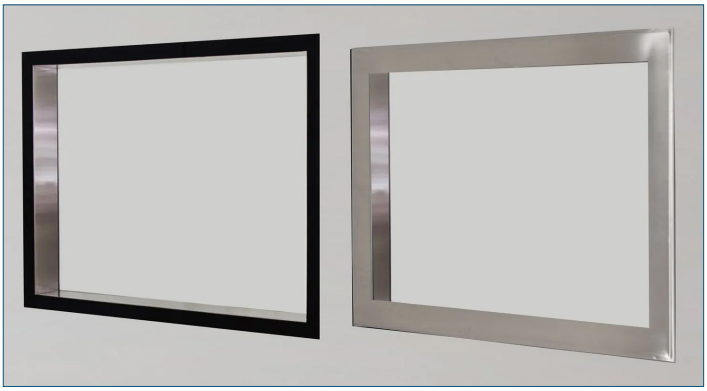
Terra Cleanroom Windows are designed for quick, easy installation in a variety of industry-standard sizes and materials. Formats include frameless or framed flush-mount windows and single or double-pane designs compatible with any wall material or thickness. Terra also offers custom windows that are built-to-order when a client requires extra large, extra tall, or extra wide windows.

Terra's Cleanroom Window Configurator allows you to input your desired width, height, and wall thickness for instant part numbers to obtain pricing easily.

BioSafe® Windows are designed without exposed hardware or crevices where microbes can colonize and include compression fittings for fast, hardware-free installation. The framed and frameless designs are compliant with BSL-rated rooms and ISO 4-compliant spaces. ValuLine Windows offer an economical alternative with polypropylene frames.

Fire-rated windows are tested and certified to ANSI/UL 9 standards, withstanding a 45-minute fire exposure and meet essential building code requirements.







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Cleanroom Doors

Terra manufactures and stocks hygienic door solutions for the most demanding environments including: cleanrooms, healthcare, commercial, and industrial facilities.

Sliding and swing hygienic doors are available in stainless steel and fiberglass leak-rated designs, with countless configurations including automatic hands-free operation and interlock systems.

UL-listed fire-rated doors protect personnel, equipment, and facilities by maintaining the integrity of the fire-rated wall.

High-speed roll up door systems feature wash-down designs and tight seals to meet cGMP, GLP, and ISO-rated environments.







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Air Showers



Air Showers and Air Shower Tunnels are designed to decontaminate personnel and equipment before entering or exiting a controlled environment, such as a cleanroom. High-velocity, HEPA or ULPA-filtered air shoots from jet nozzles on the walls and ceiling to dislodge and vacuum away contaminants in a closed-loop air filtration system.

Airshowers are available either as preinstalled systems for streamlined installation, or knockdown configurations for areas with restricted access. Low-profile designs are suitable for rooms with height restrictions.

Our UL-listed Airshowers meet the highest standards for electrical safety, and help meet municipal and other permitting requirements necessary prior to operation.

Smart air shower features include motion detection, energy efficient LED lighting, touchscreen panels for programming, and email alerts for filter change notifications. Electromagnetic door interlocks improve contamination control by allowing only one door to open at a time, preventing airflow between adjacent spaces. Optional automatic swing, sliding, or high-speed roll-up doors allow for clean and efficient hands-free operation.



Cold Rooms



- In-stock pre-fabricated designs
- Custom-designed cold rooms built to your exact specifications
- Temperature range: -40°C to +65°C with ±0.5°C uniformity
- Temperature ramp rate up to 5°C/min
- Humidity control: 0-95% RH ±5%
- Digital monitoring system with remote access capability
- High-performance 4" polyurethane foam core panels with R-30 insulation
- Vapor-tight cam-lock panel system for optimal environmental control
- Choice of panel finishes: stainless steel, aluminum, or galvanized steel



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Gowning Equipment & Furniture

Browse our wide selection of in-stock cleanroom furnishings. Terra offers certified ISO grade products for every application and budget. Website listings include both standard and metric units for universal convenience.

Mirrors



Terra's BioSafe® Mirrors are offered in three configurations: dual-sided, standard wall-mount, and frameless. Frameless mirrors mount flush against the wall to eliminate cracks and seams and feature a recessed mounting system that minimizes ledges (available with LED backlighting).

Storage Cabinets



HEPA-Filtered Storage Cabinets provide an easy-to-clean and organized storage area for booties and shoes. A built-in HEPA filtration unit protects contamination-sensitive garments and materials inside the cabinet. The double-sided design allows quick access and re-stocking of supplies from either side.

Gowning Benches



Terra Universal's Solid Top Gowning Benches feature a free-standing design made from 304 stainless steel square tube that is easy to clean and maintain.

Dispensers



Terra's innovative line of cleanroom compliant dispensers provide smart solutions for all types of applications to help support clean protocol and streamline operations.

Carts



BioSafe® Ultra-Clean Cleanroom Carts: meet ISO 5 cleanroom standards with all-stainless steel construction, continuous-seam welds, and reinforced shelves, ideal for sterile environments.

Sinks



Terra's in-stock selection of cGMP Hands-Free BioSafe® Sinks and Hand Dryer Stations combine an IR-activated water faucet with two HEPA-filtered, air-blade hand dryers within a single system.

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Workstations and Tables

Terra offers several workstation and table models to support any compliance requirement including CGMP, EU, USP, GLP, and ISO cleanliness ratings down to ISO Class 3. Factory-assembled workstations are highly customizable, featuring options like mobile castors, modular drawers, and integrated power strips. BioSafe® designs entail a gapless, creviceless surface that is easy to wipe down and eliminates areas where microbes can accumulate.



BioSafe® Ultra-Clean Tables with fully welded, fully encapsulated legs and surfaces offer the ultimate hygienic solution for ISO 5+ environments. A fully encapsulated stainless steel work surface is ideal for high-end applications where cleanliness is critical for sterility assurance programs.



Terra's BioSafe ErgoHeight™ Adjustable Cleanroom Workstations allow the user to easily alter the viewing position between multi-shift operations or amidst changing workflow requirements. An on-board controller includes 4 saved height settings for quick and easy adjustment

ISO Grade Service

Terra's ISO Grade Service provides a detailed Certificate of Compliance that includes product design specifications and safety ratings, giving you all the information needed to streamline audits and ensure facility compliance.

Order with Confidence. Much like a GIA Diamond Report verifies the quality and characteristics of a diamond, Terra's ISO Graded Certificate summarizes the specifications of your ISO Graded product. The system is designed to pinpoint your exact objectives, ensuring you receive only what you need to maximize value without overspending.

Simply provide Terra with your desired ISO grade or design requirements, and we will tailor the product to meet your criteria, certifying it with a report appended to your invoice. For added convenience, this document is also stored in Terra's digital archives for quick and easy retrieval.



ISO GRADE

CERTIFICATE OF COMPLIANCE

Manufacturer: Terra Universal, Inc.
800 S. Raymond Ave. Fullerton, CA 92831
(714) 578-6000

Issued To:
Purchase Order #:
Order Reference #:
Date of Issue:

Terra Universal certifies that the below referenced equipment's ISO Grade™ Design is correct based on Terra's established grading criteria, and conforms to the following UL listing and OSHA rating where applicable.

Terra Part#	ISO Grade™ Design	ISO Rated™ Air Cleanliness	ISO Grade™ Code	UL Listing	OSHA Rating
9605-51	4	-	BCDGIJPU-DG		-

* This certificate contains only the characteristics of the products described herein. Product characteristics and ISO Grade™ values reported in this document are not a validation, warranty, or a guarantee that this product is suited to the customer's particular environment or application. For terms, conditions, and limitations see www.TerraUniversal.com/terms-and-conditions.

* The technical file supporting this certification is maintained at the corporate headquarters of Terra Universal, Inc. and can be provided upon request.

* ISO Grade™, OSHA, and UL specifications are subject to change without notice.

Leo Nguyen, Product Certification Manager
For questions, please contact Terra's Customer Service
Customerservice@terrauniversal.com

TERRA UNIVERSAL.COM
Critical Environment Solutions

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TERRA UNIVERSAL

Laboratory Equipment

Fume Hoods & Biosafety Cabinets



Refrigerators & Freezers



Aseptic Glove Box Isolators



Source Smarter, Source Faster

Shop Terra Universal Online for thousands of configurable cleanroom enclosures, equipment, and furnishings, many with in-stock and ready-to-ship availability. For nearly 40 years, Terra Universal has served the life science, pharmaceutical, biotechnology, and medical device markets.

The Terra network includes over 20 global sales regions with a wide range of global shipping options, including door-to-door international delivery. Terra provides comprehensive installation resources and access to certification and other 3rd-party testing services.

For detailed specs and product data, view Terra's Architects & Builders Selection online. get a free quote, and stay on budget with price matching for equivalent competitor products. Contact a Terra Specialist for quantity discounts and project pricing.



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