

DENIX™

Product Manual



**LABORATORY
ENTERPRISES**

Innovative laboratory products and technologies

Laboratory Enterprises is an innovative, specialty lab equipment manufacturer and master distributor centrally located in Kansas City, KS. We pride ourselves on manufacturing and distributing the highest quality products, available. This, coupled with the exceptional service provided to architects, casework dealers and end users alike, makes Laboratory Enterprises a natural partner for any lab project.



Our products have applications in hospitals, bio-medical research, pharmaceutical, nano-technology research, universities and a broad range of other medical and research related labs and facilities. Our team of specialists is fully equipped to assist in the design of new projects, product selection, quotations, CAD drawings and installer certifications.

This catalog details the product attributes and installation techniques of Laboratory Enterprises chemically resistant, Denix 12™ and Denix Plus™ work surfaces. While both work surfaces utilize the same manufacturing and installation techniques, Denix Plus differentiates itself by incorporating a bio-static antimicrobial polymer directly into the work surface. The antimicrobial polymer protects the product surface by inhibiting the growth of odor and stain causing bacteria, molds, mildews and fungi. The polymer is permanently embedded within, and dispersed throughout, the gel coat layer of the work surface and will not wash off or wear away. Denix 12 is designed for standard research applications, while Denix Plus is ideal for more biologically sensitive research and healthcare facilities.

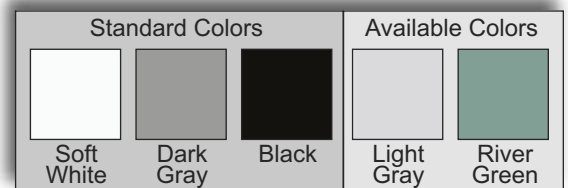
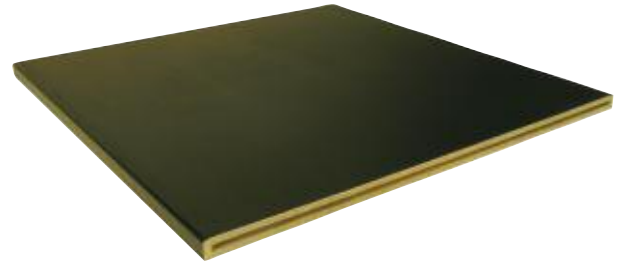
Additional information on these products can be obtained directly from our Denix team. Call us at 913-621-7337.

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Denix 12™ is a chemically resistant, rigid work surface that is manufactured from a lightweight composite of balsa wood and infused synthetic resin. The lightness in weight, durability, superior chemical resistance and ease of installation makes Denix 12 the ideal selection for laboratory and healthcare work surfaces, backsplashes, pegboards, sinks and wall panels.

Denix 12 is manufactured and fabricated to precise tolerances in a wide range of industry standard sizes and is offered in 5 colors, (custom coloring can also be accommodated). The high quality of manufacturing, combined with the rigorous quality control testing that Denix 12 undergoes, ensures that it is the best performing and most user friendly of all high performance work surfaces available.



**BALSA WOOD IS A
 RAPIDLY RENEWABLE
 RESOURCE**



**SPECIFYING DENIX 12
 MAY HELP GAIN LEED
 CREDITS FOR THE DESIGN
 AND CONSTRUCTION OF
 SUSTAINABLE BUILDINGS**



Denix Plus™ combines the proven and distinct advantages of Denix 12™ with a new breakthrough in antimicrobial technology. Denix Plus incorporates a bio-static antimicrobial polymer directly into the gel coat layer of the work surface. The antimicrobial polymer protects the product surface by inhibiting the growth of odor and stain causing bacteria, molds, mildews and fungi. The polymer is permanently embedded within, and dispersed throughout, the gel coat layer of the work surface and will not wash off or wear away. The result is antimicrobial product protection throughout the useful life of the work surface.

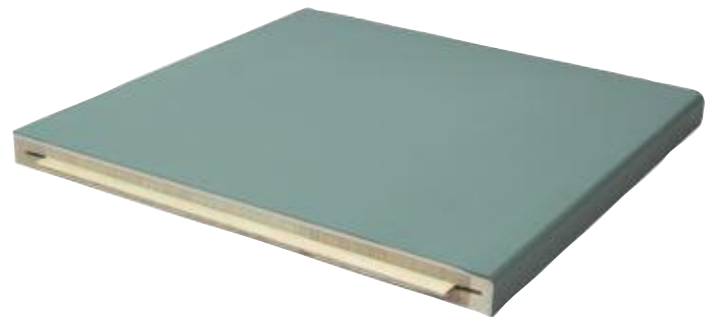
FEATURES:

- Antimicrobial additive gives product protection throughout the useful life of the work surface
- Antimicrobial additive is permanently bonded and dispersed throughout the gel coat of Denix Plus, and will not wash off or wear away
- Denix Plus utilizes antimicrobial technology that offers significant performance advantages over products without antimicrobial protection.
- Denix Plus is lightweight and uses rapid installation techniques for a cost effective solution with many applications.
- Denix Plus contains the rapidly renewable resource balsa wood, reducing the resin requirements by over 70% compared to monolithic products.
- Denix Plus has the potential to help gain LEED credits for the design and construction of sustainable buildings.



APPLICATIONS:

- Hospitals and Medical Facilities
- Bio – Medical Research Laboratories
- Nano Technology Research Laboratories
- Pharmaceutical Laboratories
- University Research Laboratories



Please Note: Denix Plus is designed for non-food contact applications in commercial, institutional, industrial and medical facilities. While the polymer incorporated into Denix Plus protects the product surface by inhibiting the growth of odor and stain causing bacteria, molds, mildews and fungi, it is not designed to protect users or others against bacteria, viruses, germs or other disease organisms. Always clean and wash work surfaces thoroughly before and after each use in accordance with local and/or OSHA protocols.

Throughout the development of the Denix™ product line our designers and engineers have worked closely with architects, laboratory casework dealers, installers and end users to produce an aesthetically pleasing, functional, easy to install and cost effective product. After conducting extensive design work and field proving trials, Laboratory Enterprises now offers a range of products to fully meet these goals. Our unique manufacturing, design and fabrication abilities set Denix products apart from all other available products.

Listed below are key attributes of the Denix Products:

 **Warning:** In order to prevent personal injury, refer to the complete Installation Instructions, Material Safety Data Sheets and Warnings published by Laboratory Enterprises for detailed safety information.

LIGHTWEIGHT AND EASY TO INSTALL:

- At only 2.5 lbs per square foot, Denix weighs less than a ¼ of epoxy products
- Less labor is required to move work surfaces around jobsite
- Less labor required to maneuver work surface into final position
- No special lifting equipment required
- Reduced work surface load on mobile and electronic lift tables, enables increased live table loading
- Quick and easy joint adjustment to misaligned casework
- Tightly controlled dimensional, thickness and flatness tolerances enable quick installation without modification
- Splined joint enables quick secure joining without time consuming shimming
- Single Application Process: The materials and installation techniques employed on Denix products allow joints to be completed in a single operation. Installers no longer need to join small sections at a time due to warpage.
- Substantial installation savings over epoxy work surfaces
- During seaming, the joint compound is quickly and easily removed with water
- No special tools are required for installation
- Field cutting and chase cutouts are easy and quick to perform - without diamond tipped tools.

USER FRIENDLY:

- Denix joints are only 1/16" wide allowing for a tight, smooth joint
- Tight tolerances on Denix thickness results in only a 3 mil variation between mating surfaces
- Surface scratches can be easily sanded out
- Surface gouges can be repaired in the field
- Surface repairs are quickly made using color matched repair kits
- Uniform matte surface finish reduces glare and eye strain
- Superior UV resistance minimizes color deterioration
- Withstands extreme temperature variations, including dry ice spills
- Common stains can be easily removed
- Stubborn stains can be removed by light sanding

FUNCTIONAL AND AESTHETICALLY PLEASING:

- Five standard colors blend well with other lab components and casework
- Multiple custom colors are available to meet special requirements
- True color matching from batch to batch
- Dimensional tolerances and product stability ensure a long life
- Matte finish with a gloss return edge

Using the same technology employed in Denix 12™ and Denix Plus™ work surfaces, Laboratory Enterprises also manufactures Peg Boards, Wall Panel Systems and Fume Hoods. Custom sizes and configurations can be made to customer's specifications. Contact our Technical Services Department for additional information.

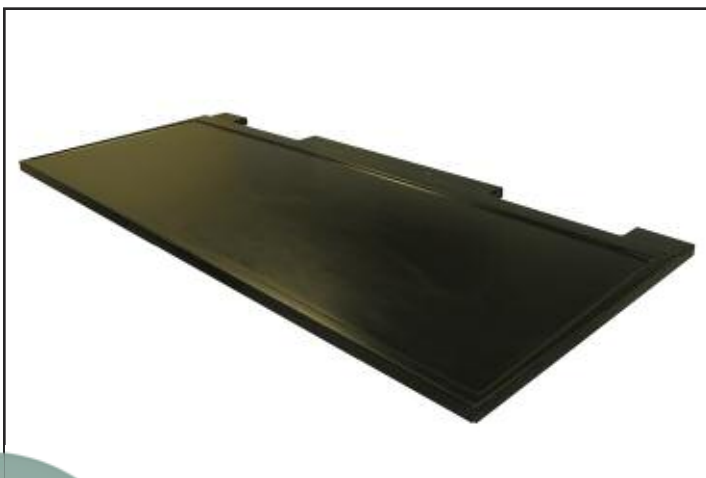
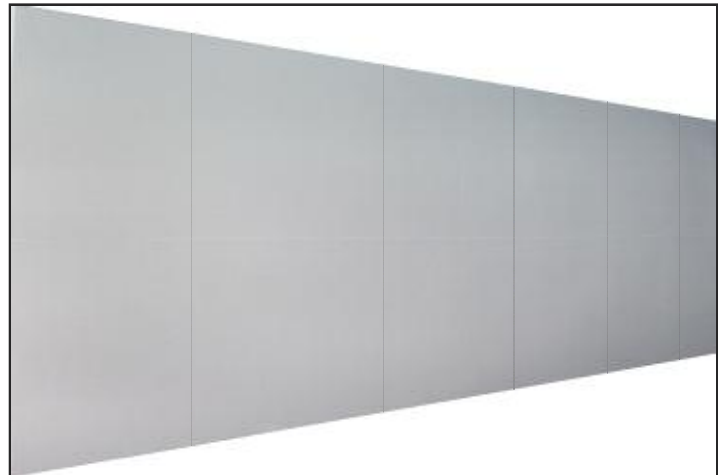


PEG BOARD:

- Denix pegboards are available in many configurations.
- Standard Peg Sizes: (Black or White) 5.5", 7.5", and 8.5"
- Drip Troughs: 2" or 4" depth Stainless Steel with PVC drain hose
- Stainless Steel or Denix Shelving upon request

WALL PANEL SYSTEMS:

Wall panels can be produced in up to 5'X10' dimensions. Denix wall panels are designed for long term performance with minimal maintenance. They are an excellent and cost effective alternative to stainless steel and other wall coverings or coatings.



FUME HOODS:

Fume hood work surfaces utilize marine edges for liquid containment.

TEST METHODS:

METHOD A:

For volatile chemicals a cotton ball saturated with the test chemical was placed in a one ounce bottle (10mm x 75mm test tube). The container was inverted on the test material surface for a period of 24 hours at 23° C. This testing method was used for all of the organic solvents.

METHOD B:

For non-volatile chemicals five drops (1/4cc) of the test chemical were placed on the test material surface. The chemical was then covered with a watch glass (25mm) for a period of 24 hours at 23° C. This testing method was used for all of the chemicals listed below with the exception of the organic solvents.

EVALUATION OF TEST:

After the 24 hour period the exposed surface areas were washed with water followed by a detergent solution and finally isopropyl alcohol. Materials were then rinsed with distilled water and dried with a cloth. The degree of chemical attack on the samples is numerically indicated below:

- (1) No Effect – No detectable change in the material surface.
- (2) Excellent – Slight detectable change in color or gloss, but no change in function or life of the surface.
- (3) Good — A clearly discernible change in color or gloss, but no significant impairment of surface life or function.
- (4) Fair — Objectionable change in appearance due to dis-coloration or etching, possibly resulting in deterioration of function over an extended period of time.
- (5) Failure — Pitting, cratering or erosion of the surface. Obvious and significant deterioration.

****Note:** The chemical testing criteria was taken from the SEFA 3-2007 Recommended Practices for Laboratory Work Surfaces.**

CHEMICAL RESISTANCE:

INORGANIC ACIDS - CORROSIVE	SOFT WHITE	LIGHT GRAY	DARK GRAY	BLACK
Chromic Acid (CrO ₃) 40%	2	2	2	2
Hydrochloric Acid (HCl) 10%	1	1	1	1
Hydrochloric Acid (HCl) 37%	1	1	1	1
Nitric Acid (HNO ₃) 40%	1	1	1	1
Nitric Acid (HNO ₃) 70%	2	2	2	2
Sulfuric Acid (H ₂ SO ₄) 40%	1	1	1	1
Sulfuric Acid (H ₂ SO ₄) 96%	5	5	5	5

ORGANIC ACIDS - CORROSIVE	SOFT WHITE	LIGHT GRAY	DARK GRAY	BLACK
Acetic Acid (CH ₃ CO ₂ H) 5%	1	1	1	1
Acetic Acid (CH ₃ CO ₂ H) Glacial	1	1	1	1
Citric Acid (C ₆ H ₈ O ₇) 1%	1	1	1	1
Linoleic Acid (C ₁₈ H ₃₄ O ₂)	1	1	1	1

ALKALINE SOLUTIONS - CORROSIVE	SOFT WHITE	LIGHT GRAY	DARK GRAY	BLACK
Ammonium Hydroxide (NH ₄ OH) 10%	1	1	1	1
Potassium Hydroxide (KOH) 15%	1	1	1	1
Sodium Carbonate Sol (Na ₂ CO ₃) 20%	1	1	1	1
Sodium Hydroxide Sol (NaOH) 60%	1	1	1	1
Sodium Hypochlorite Sol (NaOCl) 4%	1	1	1	1

ORGANIC SOLVENTS	SOFT WHITE	LIGHT GRAY	DARK GRAY	BLACK
Acetone (CH ₃ COCH ₃)	2	2	2	2
Benzene (C ₆ H ₆)	1	1	1	1
Phenol (C ₆ H ₅ OH) 5%	1	1	1	1
Carbon Tetrachloride (CCl ₄)	1	1	1	1
Diethyl Ether (CH ₃ CH ₂ OCH ₂ CH ₃)	1	1	1	1
Dimethyl Formamide (HCON[CH ₃] ₂)	1	1	1	1
Ethyl Acetate (CH ₃ CO ₂ C ₂ H ₅)	1	1	1	1
Ethyl Alcohol (CH ₃ CH ₂ OH) 95%	1	1	1	1
Ethylene Dichloride (ClCH ₂ CH ₂ Cl)	1	1	1	1
Heptane (CH ₃ [CH ₂] ₅ CH ₃)	1	1	1	1
Isooctane (C ₈ H ₁₈)	1	1	1	1
Kerosene	1	1	1	1
Methyl Alcohol (CH ₃ OH)	1	1	1	1

ORGANIC COMPOUNDS	SOFT WHITE	LIGHT GRAY	DARK GRAY	BLACK
Aniline (C ₆ H ₅ NH ₂)	1	1	1	2
Mineral Oil	1	1	1	1
Olive Oil	1	1	1	1
Soap Solution 1%	1	1	1	1
Transformer Oil	1	1	1	1
Turpentine	1	1	1	1



Laboratory Enterprises' Denix 12™ and Denix Plus™ work surfaces are generally specified in sections 11600 and 12345 in most architectural specifications.

WORK SURFACES

A. Denix 12 / Denix Plus Work Surface:

1. Manufacturer: Laboratory Enterprises
2850 Fairfax Trafficway
Kansas City, KS 66115
Phone: 913-621-7337
Fax: 913-621-1827

2. Materials and Fabrication:

a. General: Denix 12 material shall be of lightweight, composite construction and shall consist of resin with glass reinforcement on the top and bottom, gel coat on all exposed surfaces and an internal balsa wood core. The balsa wood core shall be infused with resin during the manufacturing process to impart structural rigidity into the finished composite material. The materials shall be heat cured to achieve maximum physical strength, dimensional stability and chemical resistance. Surface shall be non-porous and shall not support bacterial or fungal growth. Surfaces shall have a consistent, low-sheen, smooth surface. The finished materials shall be highly resistant to impact (including at low temperatures) and scratches, yet shall be repairable by cleaning with common mild abrasives and/or the reapplication of the same resin if damaged or vandalized.

Denix Plus material shall be of lightweight composite construction and shall consist of resin with glass reinforcement on the top and bottom, gel coat on all exposed surfaces and an internal balsa wood core. The balsa wood core shall be infused with resin during the manufacturing process to impart structural rigidity into the finished composite material. The materials shall be heat cured to achieve maximum physical strength, dimensional stability and chemical resistance. Surface shall be non-porous and shall not support bacterial or fungal growth. The gel coat shall have a uniform dispersion of biostatic antimicrobial polymer within the gel coat. This antimicrobial polymer shall be permanently embedded in the gel coat and shall have properties that prevent its removal from the gel coat by washing or wearing. Surfaces shall have a consistent low-sheen smooth surface. The finished materials shall be highly resistant to impact (including at low temperatures) and scratches, yet shall be repairable by cleaning with common abrasives and/or the reapplication of the same resin if damaged or vandalized.

Refer to the appropriate Material Safety Data Sheet for material composition.

b. Thickness: Denix 12 / Denix Plus board shall be 1" nominal thickness

c. Edges and Corners: Exposed work surface edges and corners, shall be furnished with a 3/16" radius edge with blended radius corners.

d. Surface: Work surfaces shall be furnished with a continuous 1/4" marine edge, or with 1/4" marine edge only at sink locations as determined by architect.

e. Backsplashes: Backsplashes are to be supplied loose for field application in the same material. Thickness of backsplash to be 5/8". Curbs as installed shall be 4" high, unless otherwise indicated on drawings. Curbs shall be bonded to the work surface with supplied work surface adhesive per installation instructions.

f. Edge Strips: Edge strips for field cuts shall be the same thickness as the work surface material and shall be 3/16" thick. Edge strips shall bond to the work surface using work surface adhesive per installation instructions.

g. Color:

_____ Soft White _____ Light Gray _____ River Green
_____ Dark Grey _____ Black

h. Warpage: Check work surface for warpage before fabrication. Measure in unrestrained condition. Work surface will be acceptable for use if there is no gap exceeding 1/16" in a 36" (0.9m) span.

i. Fabrication: Provide work surfaces in longest practical lengths. All joints shall be bonded with the work surface adhesive per installation instructions. Provide drip groove on underside of exposed edges, set back 1/2" from edge at all sink areas and where shown on drawings. All exposed edges to be molded or finished.

j. Thickness Tolerances: Each corner of top shall not deviate more than plus or minus 1/16".

k. Size Tolerances: Length: +/- 1/8"; Width: +/- 1/16"

l. Squareness: Compare the diagonal corner-to-corner measurements across the width of each work surface. The diagonal measurements shall be within 1/16".

m. Penetrations: Location of cutouts and drillings: +/- 1/8"; Cutout and drillings diameter: +/- 1/16"

3. Material Properties: Provide independent testing laboratory report certifying that the work surface meets or exceeds the following test criteria:

a. Chemical Resistance: Use most current "Denix 12™ Chemical Resistance Testing" (using chemical testing criteria taken from "SEFA 3-2007 Recommended Practices for Laboratory Work Surfaces")

b. Physical Tests

	ASTM Test #	Results (imperial)	Results (metric)
Notched Izod Impact @ 23°C	D 256	8.6 ft-lb/in	459 J/m
Chemical Resistance	D 3023	Pass ----	Pass ---
Ease of Cleaning	G 122	Pass ----	Pass -----
Rockwell Hardness @ 23°C	D 785	118.3 M-scale	-----
Fire Resistance (Horizontal Burn)	D 635	Self Extinguishing	< 25mm
Water Absorption	D 570	0.33 %	0.33 %
Flexural Strength	D 790	7,311 psi	50.4 Mpa
Flexural Modulus	D 790	561,388 psi	3,871 Mpa
Heat Deflection @ 264 PSI	D 648	172°F	78°C
Tensile Strength @ 23°C	D 638	2,384 PSI	16.4 MPa
Tensile Modulus @ 23°C	D 638	316,900 PSI	2,185 MPa
Compressive Strength (yield)	D 695	4,295 PSI	29.6 MPa
Compressive Strength (ultimate)	D 695	4,304 PSI	29.7 MPa

4. Installation of Denix 12 / Denix Plus

a. General: Installation shall be performed by certified Denix 12™/ Denix Plus™ installers in complete accordance with current installation instructions and guidelines. Individuals performing installation shall provide evidence of written certification before installation commences.

b. Installation Guidelines: Use the most current manufacturer's installation instructions available. Installation shall be in accordance with AWI QSI1700 and SEFA 3-2007 specifications.

c. Seam Joint: Spline joint must be installed on all joining work surfaces. Spline material to be supplied by Laboratory Enterprises.

d. Seam Tolerances: Seam Width: 1/16", +/- 1/16"; Work surface Height Variation at Seam: +/- 1/64"

e. Affixing Work Surface to Casework: To be applied with silicone and / or screws only according to manufacturer's installation instructions.

g. Installation Conditions: Use most current "Building and Installation Condition Guidelines." Installation is not to occur unless all guidelines are met.

h. Cleanup Procedures: Use most current "Denix 12 Cleanup Procedures" at completion of project.

⚠ The installer must read and understand the appropriate Installation Instructions, Material Safety Data Sheets and Warnings prior to commencing installation.

5. Sinks and Accessories

a. Composite sinks (Undermount):

1. Manufacturer: Laboratory Enterprises

2. Description: Sinks shall be molded and cured from the same material as the work surface. Nominal wall thickness 3/16" with all interior corners covered to a smooth radius and bottoms pitched to the outlet opening. All sink outlets shall have a polypropylene tail piece assembly with a 1.5" NPSM male thread.

3. Undermount sinks: Provide as shown on drawings:

(i). Sinks shall be installed from the underside of the work surface.

(ii) To be installed using current installation instructions provided by Laboratory Enterprises.

4. Sink color: Soft White, Light Gray, Dark Grey, Black or River Green.

b. Polyolefin sinks (Drop-In):

1. Supplier: Laboratory Enterprises

2. Description: Integrally molded from a polyolefin thermoplastic resin conforming to ASTM D3350. Nominal wall thickness of 1/4" with all interior corners covered to a smooth radius and bottoms pitched to the outlet opening.

3. Drop-In sinks: Provide as shown on drawings:

4. Sink overflows: Unit shall be manufactured of virgin polyolefin material to meet ASTM 1412. Overflow assembly shall attach to sink two inches below the top of the surface. A 1" flexible tube made of polypropylene shall connect the grid connection to a 1.5" diameter adapter attached to the sink outlet. Adapter must include an integral backflow valve so that wastewater does not back-up into the sink.



INSTALLATION

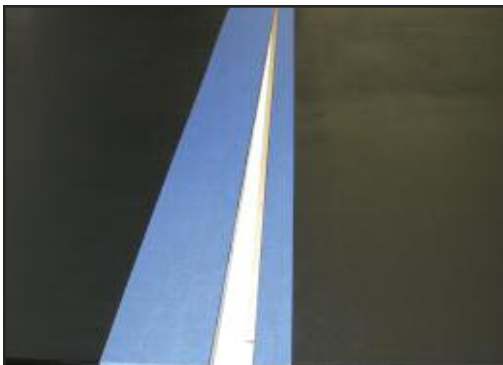
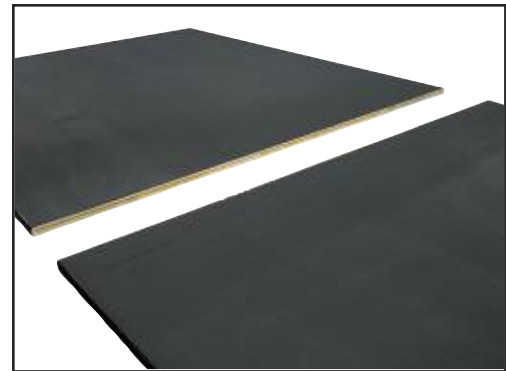
Due to its lightness in weight, controlled sheet dimensions and unique seam design Denix™ work surfaces can be quickly installed using standard tools. Installation times are faster than traditional epoxy work surfaces and the resulting joint seams are also more aesthetically pleasing and user friendly.

A summary of the installation method is shown below, but installers must refer to the detailed installation instructions published by Laboratory Enterprises prior to commencing any installation.

Prior to final installation all work surfaces and backsplashes should be dry fitted to casework and walls and checked for accuracy. Sinks should also be placed to ensure proper fit. **If any item does not fit properly or is damaged, or missing, the installer must contact Laboratory Enterprises immediately. Laboratory Enterprises is not responsible for removal of incorrect work surfaces.**

SETTING AND SEAMING THE WORK SURFACES:

- Set work surfaces on to plumb and level casework
- Clean off any surface debris on work surfaces and seam area
- Anchor top “A” to casework using wood screws
- Dry fit with spline in place and check seam tolerance.



- Adjust top “A” by using weight, shims, or screws to maintain seam tolerances
- Pull Top B away from Top A by approximately 4”.
- Place 4” of painters tape either side of the joint, offset 1/16” from each edge
- Mix work surface adhesive and apply to both sides of spline and insert spline into joint
- Apply liberal amount of work surface adhesive to opposite vertical edge at seam then press both tops tightly together
- Using a putty knife, press additional adhesive into joint gap until completely filled.



WARNING

A summary of the installation method is shown for specification purposes only. Installers must refer to the complete set of Instructions, Material Safety Data Sheets and Warnings published by Laboratory Enterprises prior to commencing any installation and or maintenance. Failure to comply with the complete set of Instructions, Material Safety Data Sheets and Warnings can result in serious personal injury.

- Remove adhesive with putty knife and clean up any adhesive residue with wet rag.
- Remove tape from seam area and again clean up any adhesive residue with wet rag.
- Allow joint to cure overnight at a minimum temperature of 72°F.
- If residue exists on work surface after cure, lightly wipe with acetone.
- After cure, use the correct length wood screws and anchor work surface B to casework.



BACKSPLASHES

- Protect work surface from being damaged by backsplash when handling.
- Apply liquid nails to back of backsplash.
- Mix proper amount of work surface adhesive, per mixing instructions provided, and apply to bottom side of backsplash.
- Apply backsplash to wall and work surface.
- Using 1"X2" wood blocks, press backsplash to wall and use a c-clamp to hold. Place approximately every 3 feet. Ensure all joints are level where backsplashes meet.
 Note: Also ensure clamp does not damage work surface.
- Using a putty knife, remove excess work surface adhesive.
- Using a rag wet with water, remove work surface adhesive residue from work surface.
- Allow material to cure overnight at a minimum temperature of 72°F.



SINKS

- Dry fit sink into location on bottom side of work surface, ensuring alignment marks properly line up with sink.
- Mix proper amount of work surface adhesive, per mixing instructions.
- Apply adhesive directly to sink flange leaving a 1/8" thick film.
- Fit sink into place, ensuring alignment marks are properly lined up with work surface. (Note, ensure outlet location is in the rear left of the work surface when in its final location)
- Using supplied undermount support rim, screw into place around sink flange.
 Note: Ensure undermount support rim does not interfere with fixture cutouts in work surface.
- Remove excess adhesive from underside of work surface.
- Place work surface and sink into final position in casework.
- Wet a clean rag with water and remove excess adhesive residue from inside sink bowl.

SINK OUTLETS

- Clean sink outlet and hole in sink.
- Apply work surface adhesive or silicone in a 1/4" bead to the bottom of the sink outlet flange.
- Set sink outlet into sink hole and turn outlet ¼ turn while pushing down.
- Thread nut on sink outlet by hand. Hand tighten only.
- Using a wet rag, remove excess work surface adhesive from sink and outlet, or if using silicone, use a small amount of WD-40®.

CLEANING AND MAINTENANCE PROCEDURES:

FINAL CLEANUP AFTER INSTALLATION

- Remove any dust or residue on work surface using a mild soap and water solution.
- Protect work surface from damage from other trades. Cover with corrugated cardboard and plastic sheet (drop cloth or similar) and tape in place.
- Work surfaces should never be used as a workbench or platform for any construction personnel.

GENERAL HOUSEKEEPING

Laboratory Enterprises manufactures Denix countertops with an extremely high degree of chemical resistance. Good housekeeping and care practices will help ensure your Denix products can look great after years of use.

- Under heavy use: Clean work surfaces daily
- Under light use: Clean work surfaces weekly
- Clean work surfaces with mild soap and water solution. Lightly wipe until all dirt and residue is removed.
- Do not use abrasive sponges or cleaners on work surfaces as this will permanently scratch the surface.
- Inspect work surfaces, joints and sinks at a minimum of every 6 months. Check for any cracks, voids or chips, especially in seam locations. If found, repair problem immediately.

CHEMICAL SPILLS

Standardized testing has been completed on Denix 12 showing that most chemicals used in a laboratory environment do not harm the overall performance of a work surface. However, certain reagent and chemical concentrations can possibly stain or etch the work surface and cause permanent damage. The following tips should be followed whenever a spill does occur:

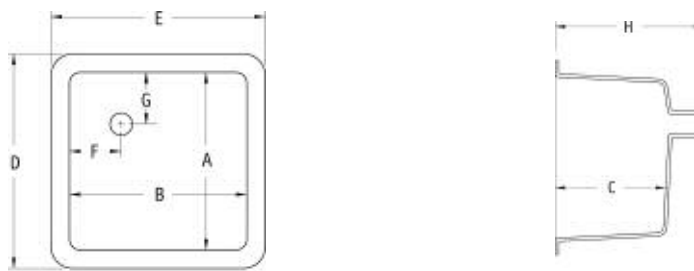
1. Remove chemical immediately after spill.
2. Many stains can be easily removed with a mild soap and water solution.
3. For tougher stains and permanent markers, use a mild abrasive cleaner such as Soft Scrub or similar.

Note: Special care should be considered when handling acids. Concentrated amounts can cause permanent etching to the surface.

CORROSION RESISTANT LABORATORY SINKS

In addition to undermount composite sinks, Laboratory Enterprises' also offers a range of molded high density polyethylene sinks. These are designed to provide years of service under tough chemical conditions. All sinks are manufactured from virgin polyolefins with an integral 1 1/2" national pipe thread outlet. Several models of ADA-compliant sinks are also available

Drains are located at sink corners to facilitate the maximum use of the sink bowl. An integral flange permits either above the counter mounting, using a stainless steel flush mounting rim, or traditional below the counter mounting. Flush stainless steel or undercounter steel mounting rims are available for all sinks and are recommended by Laboratory Enterprises for proper installation.

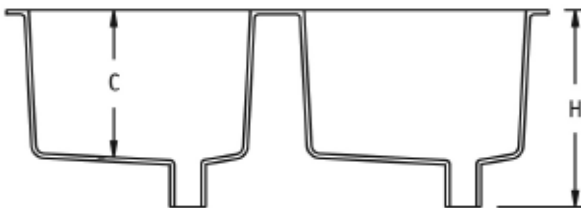


Standard Sinks

Style	A	B	C	D	E	F	G	H	Wt. oz.
ARLS-11	12	12	8	14.5	14.5	3.5	3.5	11	72
ARLS-12	16	8	7	18.5	10.5	4	4	9.25	75
ARLS-13	16	16	8	18.5	18.5	3.5	3.5	11	106
ARLS-14	18	12	8	20.75	14.75	3	3	10.25	106
ARLS-15	18	15	12	20.5	17.5	4	4	15	165
ARLS-16	21	18	10	23.5	20.5	3.5	3.5	12	165
ARLS-17	23	18	12	25.5	20.5	4	4	14.25	185
ARLS-18	25	15	10	27.5	17.5	4	4	13	168

ADA Compliant Sinks

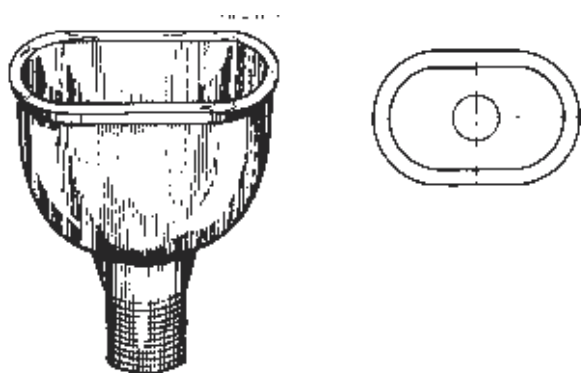
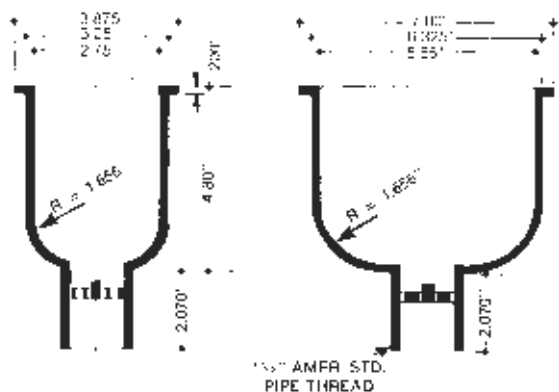
Style	A	B	C	D	E	F	G	H	Wt. oz.
ARLS-13-ADA	16	16	6	18.5	18.5	3.5	3.5	11	98
ARLS-14-ADA	18	12	6	20.75	14.75	3	3	10.25	101
ARLS-15-ADA	18	15	6	20.25	17.5	4	4	15	158



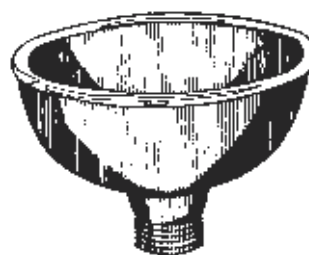
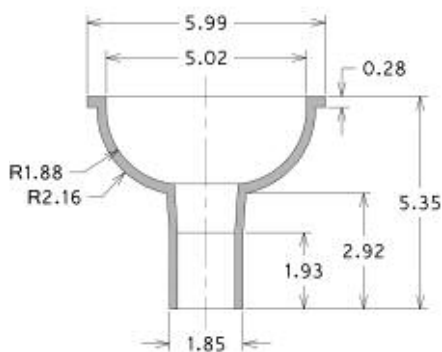
Double Bowl Sinks

Style	A	B	C	D	E	F	G	H	I
ARLS-DB-1	12	12	8	30.25	14.5	3.5	3.5	11	3
ARLS-DB-2	15	18	10	41.25	17.5	3.5	3.5	13	3

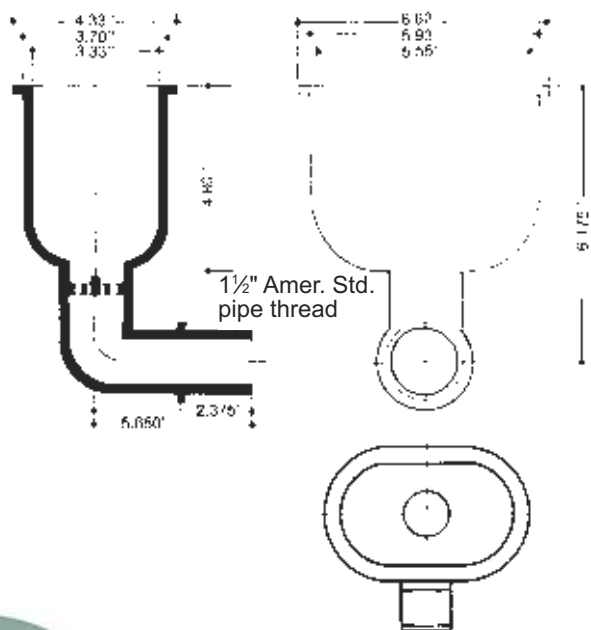
CS1



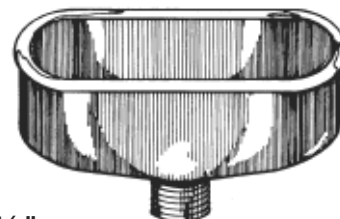
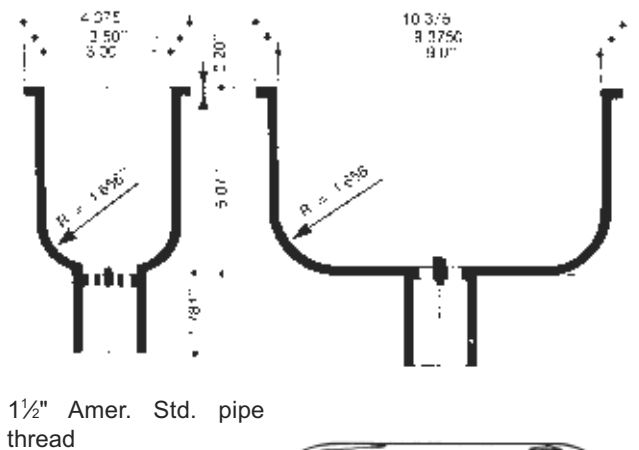
CS3



CS2



CS5



All diameters $\pm \frac{1}{32}$ "
All sinks supplied with stopper

CHICAGO FAUCETS:

Full line of laboratory fixtures including:

- Hot & Cold water Faucets
- Mixing Faucets
- DI Water Faucets
- Dry Service Valves for Most Typical Medias
- Fume Hood Fixtures

Heavy nickel plate under triple chrome for extra durability and high luster finish. Cost effective solution for laboratory environments.



SPECIALIZED LABORATORY GAS AND ELECTRICAL PRODUCTS:

- Pre wired and field wired aluminum raceway with satin anodized finish
- Non metallic raceway
- Electrical service pedestals in white or black powdercoat
- Quick connect laboratory gas fixtures for up to 5.0 Pure Gasses

ALSIDENT FUME EXTRACTION SYSTEMS:

Local exhaust systems to remove gases, smoke, fumes, smells, heat and dust particles from work environments. Arms are manufactured in corrosion resistant anodized aluminum or polypropylene tubes with acid proof stainless steel hardware.

A variety of mounting and hood options are available to properly fit end user requirements.



FREIGHT CONDITIONS:

All orders are shipped F.O.B. Kansas City, Kansas. Once the material leaves our dock it becomes the property and responsibility of the consignee. If freight is lost, or damaged, all freight claims must be filed by the consignee. When shipping to a job site, freight will be either pre-paid and billed or third party billed.

PAYMENT TERMS:

Net 30 days from date of invoice. A service charge of 1.5% per month (18% per annum) will be added to all past due invoices. No shipments will be made to accounts which are in arrears.

ORDER ACCEPTANCE:

No catalog, price list, literature or other material describing our products is to be construed as an offer to sell same. Orders are subject to acceptance by us at our facilities in Kansas City, Kansas. Your order, when shipped by us, shall be the complete contract between us, subject to, and incorporating therein, the terms and conditions, herein set forth, and any provisions contained in your order that are inconsistent with our terms and conditions shall be inapplicable and invalid. Prices and discounts contained in any of our catalogs, price lists or other literature are subject to change without notice.

PRODUCT QUALITY:

Our products are carefully inspected for manufacturing defects. However, it is not always possible to detect hidden defects. Our products are guaranteed only to the extent that we will replace them without charge if they are proved to have manufacturing defects within one year of the date of delivery to the site where they are to be used, or installed, and provided we have been given an opportunity to inspect any product alleged to be defective and the installation or use thereof. NO GUARANTEE IS INCLUDED AGAINST ANY EXPENSE FOR REMOVAL, REINSTALLATION OR OTHER CONSEQUENTIAL DAMAGES ARISING FROM ANY DEFECT. THE GUARANTEE SET OUT ABOVE ARE THE ONLY GUARANTEE MADE AND ARE EXPRESSLY IN LIEU OF ALL OTHER GUARANTEES, EXPRESSED OR IMPLIED, INCLUDING THE GUARANTEE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

SHIPPING DATES – DELAYS – SHORTAGE CLAIMS:

Promises of shipping dates are estimates, and therefore cannot be guaranteed. Laboratory Enterprises, Inc. will not be liable for any delay in a delivery. Any claims for shipping errors, shortages or defects must be made to LE within 24 hours of receipt of the goods. Buyer shall be required to make timely payment to seller of any amount which is undisputed, or not subject to such claims.

TAXES:

Any sales or manufacturers' taxes existing, or under future statutes, are to be paid by the buyer.

RETURNED GOODS POLICY:

1. Permission to return goods must be requested in written form via email, fax or mail. The request must identify original shipment of material by invoice number and date of invoice, and list all goods to be returned.
2. All Denix work surfaces, sinks, consumables and specially manufactured items are sold non-cancelable and non-returnable. No credit will be issued upon their return.
3. Goods must be returned within one year after purchase in order to receive credit.
4. All goods must be returned "prepaid."
5. All goods returned must be in a pristine and resalable condition. All returns are subject to our inspection. Any product that is determined, in our sole judgment, to be not in a resalable condition will be either disposed of by LE, or returned freight collect to the purchaser. In either event no credit will be given.
6. A restocking charge of 25% will be charged against all returned goods. If goods are returned in a non-pristine condition and need special cleaning to allow them to be resold a 40% restock will apply to the entire returned shipment.
7. All goods returned must have Laboratory Enterprise's Return Authorization Number on boxes or cartons, and must freight prepaid. If not, they will be refused at our dock.
8. All credit memos issued may be applied to current account balances, or to future purchases. No cash refunds will be issued.



A Watts Water Technologies Company

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REPRESENTED BY:

