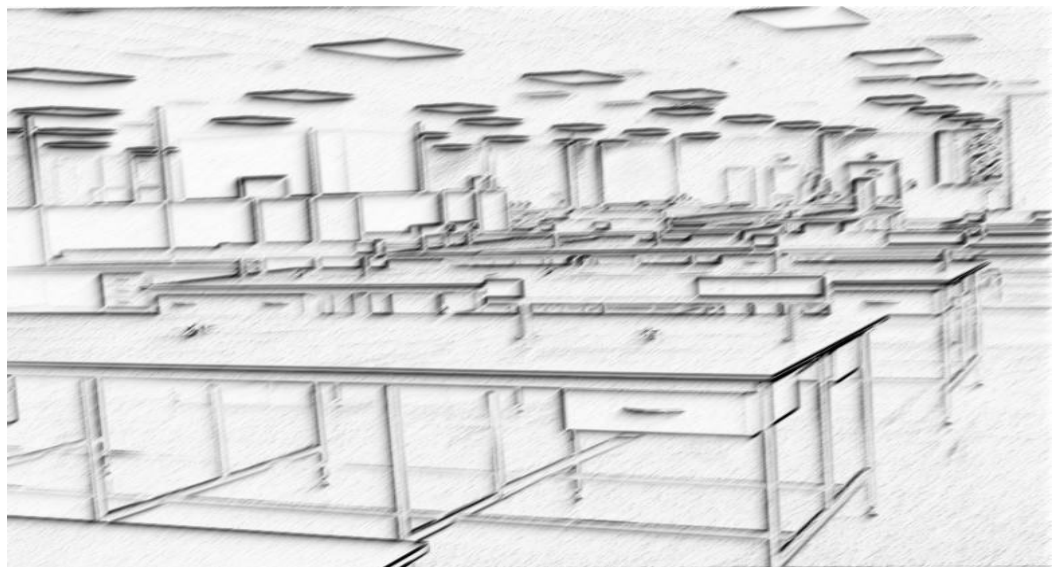


***High Performance
Solid Core
Phenolic Resin Bench Tops***

Novalab

Duratop

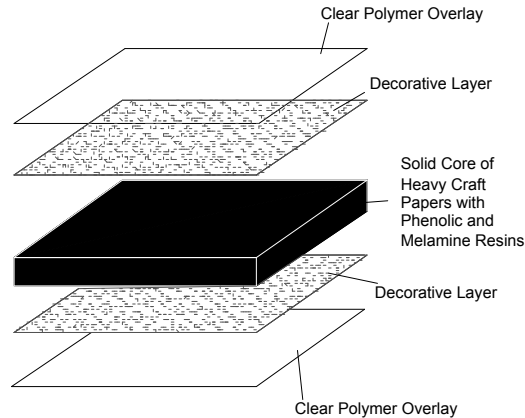


Leaders in Solid Core Solutions

Novalab Systems Ltd
489 Rosebank Road
Avondale,
Auckland
P.O. 128-411 Remuera
Auckland
Phone 09 828 5174
Fax 09 828 5293
Email info@novalab.co.nz

May 2009

The next generation in high performance work surfaces



The core of Novalab solid panel products is manufactured from multiple layers of heavy craft paper impregnated with phenolic and melamine resins. The decorative surface is provided by special, high abrasion resistant melamine papers. The final layer is a high performance polymer that provides reasonably good chemical resistance and exceptional abrasion resistance. The resin and paper sandwich is then subjected to high pressure and temperature, which results in a homogenous panel of extreme strength and durability.



Duratop has proven to be a versatile and successful solid core bench top product that has been used in a number of school and commercial laboratories as well as providing biologically clean wall linings for high level physical containment labs. Where a high level of cleanliness has been required, Duratop has also been used for desk tops in laboratory offices.

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First used for the MAF laboratories in Auckland, Duratop has since been used in a number of facilities where its acceptable chemical resistance and exceptional abrasion resistance has provided the end user with a versatile and durable work surface.



General Performance Characteristics

Novalab solid core products provide a range of superior bench top options at **affordable prices**. With costs similar to traditional laminate alternatives, Novalab products provide outstanding performance features that guarantee long life and exceptional durability in a wide range of applications.

No matter what the environment, Novalab products all provide the following exceptional features.

-  No MDF or chipboard support needed, so there are no weak points for water to attack
-  Totally moisture resistant so that it cannot de-laminate. Sinks can be under mounted to allow easy cleaning and taps can be fitted into the bench top with no concerns about possible water damage
-  Cannot rot and will not allow bacteria or fungi to grow making it the most hygienic surface for a wide range of applications
-  Finished on both sides for total performance
-  Easy to clean. Simply wipe down with common liquid household cleaners, sanitisers or detergents. Avoid abrasive cleaners.
-  No edge chipping. The solid core means that there are no edgings to fall off or trap dirt.
-  Impact resistant and fire retardant making for a safer, more durable installation.
-  Slim line bench tops that are a design feature in their own right, adding a stunning extra dimension to complement any furniture concept.
-  High abrasion resistance means long life
-  Anti-static. Safe to use with sensitive electronic equipment
-  Suitable for all physical containment standards
-  Can easily be cut to length or extended on site making installation simple and cost effective. On site variations are no longer a problem.

Good General Chemical Resistance

Novalab Duratop provides a good all round laboratory work surface where less aggressive chemicals are in use or good housekeeping methods are employed. Less effective than Novalab Resistop in very harsh environments, Duratop still possesses stain and chemical resistance properties that are superior to other budget products on the market.

Particularly for the budget conscious school laboratory, Duratop provides good short term resistance to acids and alkalis and to staining from problem chemicals such as potassium permanganate, silver nitrate and iodine.



Duratop Applications

Microbiology Labs including PC2 up to PC4
Medical, Healthcare and Dental Labs
Research and Development Labs
Testing Labs
Pharmaceutical Labs
Schools, Universities and Other Educational Labs
Physics Labs
Government Facilities
Forensic Labs



Bench Tops
Storage Shelves
Drainer Boards
Drying Racks
Biologically inert wall liners
Case work

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Whilst Novalab Duratop is not **GreenGuard** certified, it is in a class of materials that are generally considered as low or no emission as a result of the products and processes used in its manufacture.

PLEASE NOTE

Novalab Duratop is designed as a general purpose bench top material, with good overall chemical and abrasion resistance. However, no one material is suitable for all possible conditions and applications. Please request a sample for testing to ensure that the product meets your specific needs.

Novalab Duratop

Chemical and Stain Resistance

Duratop	Chemical Resistance Information			
Lab Bench Exposure Test				
Chemicals That Have No Effect After 24 Hrs				
Acetic Acid				
Acetone				
Ammonium Chloride 10%				
Ammonium Hydroxide 10%				
Amyl Acetate				
Barium Chloride Dihydrate 10%				
Carbon Tetrachloride				
Chloroform				
Citric Acid 10%				
Ethanoic Acid 5%				
Potassium Carbonate 10%				
Potassium Chloride 10%				
Potassium Ferrocyanide 5%				
Potassium Iodide 10%				
Sodium Bicarbonate 5%				
Sodium Carbonate 10%				
Sodium Chloride 5%				
Trisodium Phosphate 1%				
Chemicals That Have No Effect If Removed Within 15 Minutes				
Caustic Soda 10%				
Hydrochloric Acid 10%				
Hydrogen Peroxide 3%				
Iodine 0.1%				
Mercury Chromate 10%				
Nitric Acid 10%				
Phosphoric Acid 85%				
Potassium Permanganate Solution 10%				
Saturated Calcium Hydroxide				
Silver Nitrate 5%				
Sulphuric Acid 10%				
Chemicals That Have No Effect If Removed Immediately				
Hydrochloric Acid 37%				
Nitric Acid 65%				
Sulphuric Acid 96%				

**Independent test results to BS EN 438: Part 2: 1991
Full test results to AS/NZS 2924.1 1998 are available
on request**

**Technical
Information****Panel
Sizes**

**6 mm, 13mm and 16mm are normally ex-stock
Panels are 3,600 mm x 1800 mm**
(other sizes are available on special order)

**Physical
Properties****Flexural Strength**

>120 N/mm² (BS 2782)

Tensile Strength

>130 N/mm² (BS 2782)

Resistance to Surface Wear

>500 cycles (Taber Abrasion Test EN 438-2)

Resistance to Impact

>40 (EN 438-2)

Surface Hardness

Micro-vickers 60

Density

1430 Kg/CuM

Water Absorption

Boiling water for 2 hrs EN 438-2

0.44% increase in weight

0.28% increase in thickness

Operating Temperature Range

Up to 120c continuously. Up to 180c
maximum