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Coatings Design™

Duroplex® - Decorative and High Performance

Undoubtedly the Duroplex Wall Finish System is highly successful. Millions upon millions of square feet have been purchased and successfully installed since 1985. Installations span most of the market segments in the construction industry, hospitals, courthouses, airports, and tenant finish for office buildings. All segments of the hospitality market from limited service to luxury resort, medical offices, retail finish out, stadiums, residential, military barracks, universities and colleges along with primary and secondary schools make up the list of projects that are reaping the benefits of having Duroplex installed at their property.

What is about this material that appeals to the informed specifier? Attempts to copy the material appear from time to time, but what is the Duroplex story that makes it the logical choice of architects, designers, construction teams and owners?

Two words provide the answer: aesthesis and performance. It is the combination of the these two words that tell the Duroplex story. In some instances, one can replicate one characteristic or the other of Duroplex, but taken together, aesthetics and performance, Duroplex has no peer within it's price point.

More detailed and technical information is found on our website.

From top right: TN Tech University, University of Tampa Athletic Center, St. Joseph Medical Center, Hobby Airport



Interesting facts:

⇒ *Duroplex is 80% as hard as mild steel.*

⇒ *Duroplex carries a 10 year performance and mold or mildew warranty.*

(see warranty statements on our website)

⇒ *No warranty claim has ever been filed against Duroplex in the history of the product.*

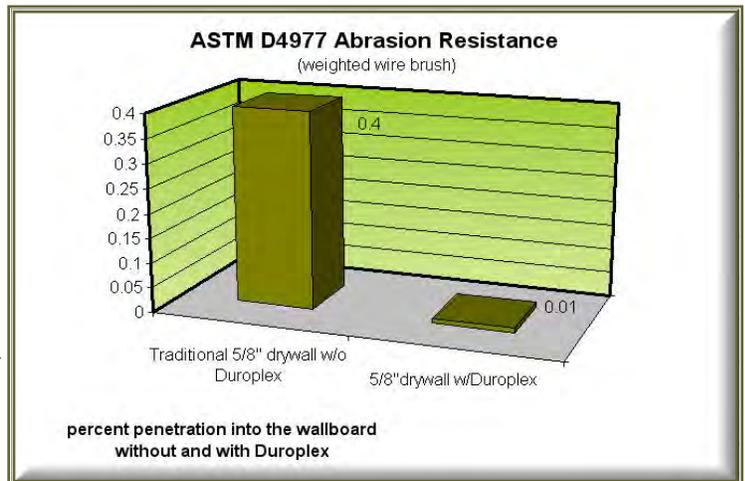
Duroplex— a performance leader in wall protection.

Proven performance scientifically and in the real world

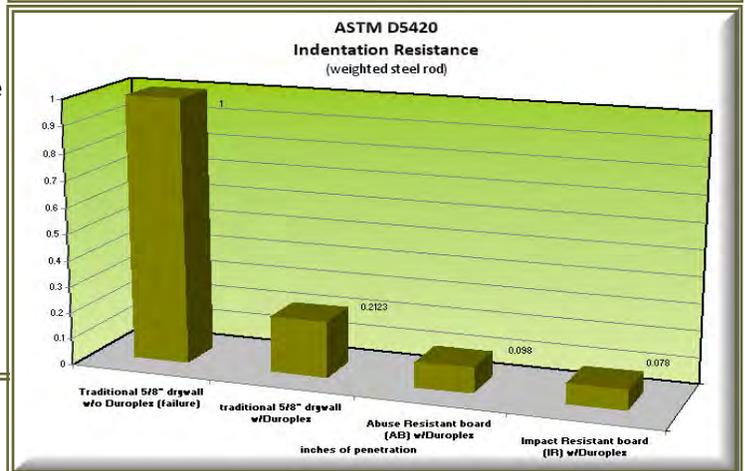
Performance – a word used by many supplies across many industries. We define performance for the Duroplex system as the ability to withstand the wear and tear buildings experience over time. More specifically we mean the resistance to surface abrasion and impact upon the wall surfaces that happens in high traffic buildings. Additionally we mean exceeding applicable LEED and Green Seal criteria for low VOC products, and contributing to a positive Indoor Air Quality (IAQ). Duroplex is warranted for 10 years not to support the growth of mold on wall surfaces.

Three tests help to provide a better understanding of the abuse resistance capabilities of Duroplex. Abrasion test ASTM D4977, Indentation test (piercing blow) ASTM D5420, and Soft Body Impact test ASTM E694 are industry common, scientific methods of measuring abuse resistance.

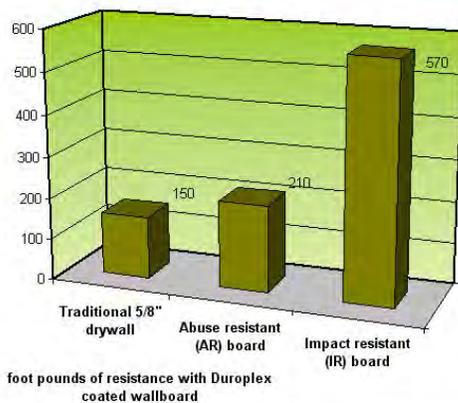
Abrasion test ASTM D4977 uses a wire brush with 25 lbs of weight. The test standard is 50 strokes, the penetration to the nearest 0.001" is measured to provide relative value of rub resistance. **The accompanying chart illustrates that traditional raw or painted 5/8" drywall is more than 40% penetrated with 50 cycles. The same 5/8" drywall with Duroplex has no damage after the same 50 cycles, and after 300 cycles has only experienced a minor surface scratch. (lower is better)**



Indentation test ASTM D5420 uses a weighted steel rod to measure resistance to puncturing blows. **The chart shows us 5/8" raw or painted drywall fails this test. With Duroplex on the same 5/8" drywall, only partial penetration occurs. As indicated in the chart, further reductions in damage may be realized by using high performance wallboard. (lower is better)**



ASTM E694 Soft Body Impact Resistance (bag w/steel shot)



Soft body impact, ASTM E694, uses a large leather bag with 60 lbs of steel ball bearings. The bag is raised to 90 degrees from the wall and swung into the wall assembly; damage is measured. **Under this test, traditional raw or painted 5/8" drywall fails. The same wallboard with Duroplex will resist up to 150 foot pounds of impact. As with the indentation test, additional gains in impact resistance may be obtained by using a tougher substrate, such as abuse resistant (AR) or impact resistant (IR) wall board. (higher is better)**

Featured Project: Filan Hotel, Resort & Spa

Interior Design: Duncan, Miller, Ullman (Dallas) Installer: Finishes Etc LLC

Nestled in the Texas hill country, just north of San Antonio, and near SeaWorld, the Eilan Hotel, Resort & Spa, is an esteemed member of The Leading Hotels of the World collection of luxury properties. This intimate boutique hotel offers world-class luxury against the background of the beautiful Texas hill country. The Dallas design team of Duncan, Miller, Ullman was challenged by their international client to create “elegant wow”. This is a smashing success!

QR code linked to Duroplex



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ABRASION AND IMPACT STUDY



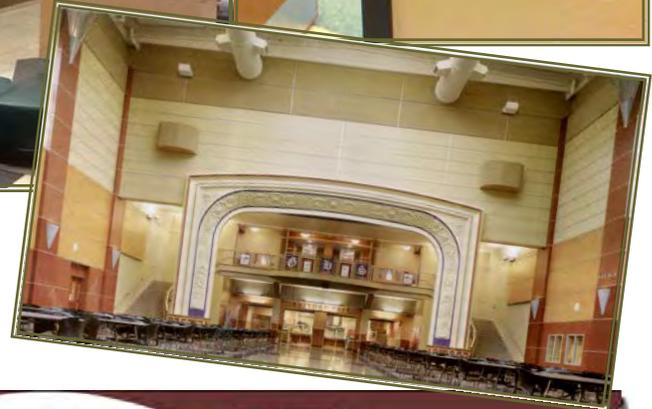
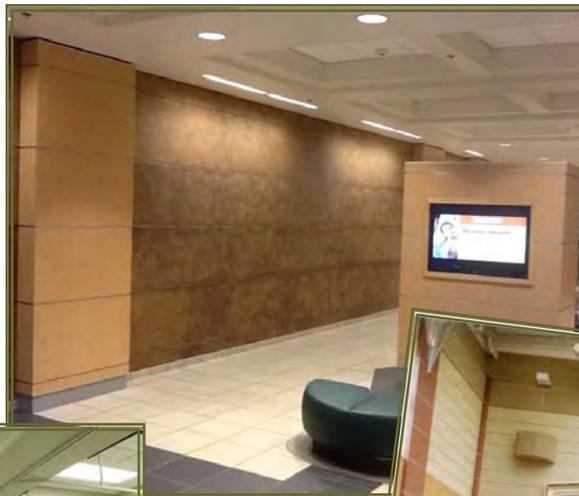
The Duroplex system significantly improves the **abrasion and impact resistance** of 5/8" drywall. Additional performance results are achieved when Duroplex is placed over abuse or impact resistant wall board; **substantial gains in the resistance to both piercing and soft body impact are realized.** The QR code at right provides a quick link to our collaborative study with **Georgia-Pacific** on the performance results of Duroplex over various wall board substrates. This study is also on our website under: **PRODUCTS/DUROPLEX/ABRASION AND IMPACT**, document T1216.

Reference material on our site:

- ⇒ Abrasion & Impact study
- ⇒ Tests & Sustainability
- ⇒ Datasheet

Project photos:

student lounge at TN Tech University, Denver Health Hospital, Garfield High School, Holy Cross Hospital, Yellowstone Park Visitor Center



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The products range from the relatively inexpensive to the very elegant upscale finishes. All products have been tested for abrasion, mold and mildew, and flame resistance, as well as colorfastness.

Which product should you use?

Ask your Customer Service Representative for a name of the Sales Representative in your area or for a list of our Qualified Applicators and installers today! Call us at 800-537-6111.

To create a submittal package of Triarch product documents, [click here](#)

Interior Finish Systems

Collection of Joy™

Duroplex® DECORATIVE INTERIOR TEXTURED ACRYLIC WALL FINISH for maximum longevity, abuse resistance, mold and mildew prevention and the lowest long term maintenance costs. Duroplex® performance is available in an almost unlimited color palette with dozens of textural effects. Tuscan plasters, Dimensional Metals, single color or multi-toned effects with minimal or highly textured surfaces are all available with Duroplex. No doubt Duroplex provides a highly attractive wall finish, but it also provides performance. Performance criteria includes a surface hardness that is 80% as hard as mild steel making it highly abrasion and impact resistant. The result is Duroplex improves the performance of standard drywall and high performance wall boards. Duroplex is LEED compliant for low VOCs, colorfast and integral color. Class "A" Flame Spread and Smoke Contribution rating and it is 5 times less toxic than typical Type II vinyl wall covering under fire conditions. See more performance information under TESTS & SUSTAINABILITY. With a ten (10) year warranty against surface mold and mildew growth, Duroplex contributes to a positive Indoor Air Quality (IAQ) and has been successfully utilized to help resolve sick building syndrome (SBS) for a variety of projects. Duroplex conforms to the requirements for the Collaborative for High Performance Schools (CHPS) and the California South Coast Air Quality standards for low emitting VOC material, section 01350. Duroplex also carries a Ten (10) Year Performance Warranty covering labor and materials against cracking and delamination. Our standard color palette, available on this website under E-Studio, provides 288 standard colors and 25 textures. Custom colors and texture options are also available through our sample department. Installed prices will vary with square footage, the pattern or finish selected and job site conditions, but a typical range of installed prices with U.S. labor rates: \$1.25 - \$4.00/square foot.

- Abrasion & Impact
- Care & Cleaning (English)
- Care & Cleaning (Spanish)
- Coatings Design Educational
- Datasheet
- Mold & Mildew
- Patching
- Picture Book
- Specifications (Etc)
- MSDS
- Coatings Design Masonry