Beautiful Walls
Don’t Get Any Easier Than This!

With National Gypsum Gold Bond®
brand Durasan® Prefinished Gypsum
Board, durable yet elegant interior
walls don’t require a lot of work!
Or a lot of time! Or a lot of money!
Because the panels are already
finished, there’s no taping, no joint
finishing, no sanding, no priming,
no painting, and no wall covering
application.
All those steps, all those trades, all
that mess and all those expenses
are eliminated. Installation is quick
and easy. In most cases, your walls
are up and finished in one day
or less.

Colors And Textures
For A New Century
Today’s workspace continues to
evolve, and Durasan panels are
designed to take on the challenge.
With a variety of stylish patterns
and colors to choose from, Durasan
panels will fit right in. Whatever the
look, whatever the feeling you are
trying to achieve in your space,
Durasan panels can help you
achieve it beautifully, simply and
cost effectively.

The Perfect Panel
For Perpetually
Changing Work Spaces
Once the exception, now the
rule, change is as much a part of
today’s workplace as computers
and networks. Because so much
of the usual effort and expense
of wall installation is eliminated,
Durasan panels provide you with
the flexibility to accommodate
changing workspace configurations,
so important in today’s highly
“wired” environments.

Benefits Go To
The Bottom Line
Yes, the installed cost of Durasan
panels is typically less than
conventional drywall with field-
applied wall coverings. But,
that’s only the beginning. Their
washability and low maintenance
provides an additional savings in
overhead costs.
In addition, depending on the
design plan, when Durasan panels
are installed as part of a relocatable
wall system, they may be eligible
for accelerated depreciation. Thus,
they can generally be depreciated
over seven years instead of the
usual 39 years for conventional
construction. Your tax adviser can
give you the specifics.

A Tradition Of Value
Business owners, architects, builders,
facility managers and interior
designers have recognized Durasan
panels as the leader, and the
dependable constant, in the ever-
changing gypsum board market.
That trusted reputation is built on
National Gypsum’s continuing
commitment to quality, value and
performance.

An Easy Choice
With all these advantages, it is
easy to see why Durasan
Prefinished Gypsum Board is the
preferred choice for distinctive
walls that are elegant, economical
and easy to install.
**Pattern and Color Selection**

**Group 1 – Stipple**
- Champagne
- Chiffon
- Off White
- Cloud

**Group 3 – Santa Fe**
- Porcelain
- Adobe

**Group 3 – Harvest**
- Cotton
- Oyster White
- Rice

Color accuracy of these Durasan panel patterns is limited in printing. Therefore, it is suggested that reference also be made to actual samples in the Durasan Pocket Selector. Contact your National Gypsum Sales Representative for Selectors and for information on Durasan panel delivery schedules in your area.

Durasan Patterns by Price Group (in order of ascending value)
- Group 1 – Stipple
- Group 3 – Santa Fe, Harvest
Description
The Durasan line consists of Gold Bond® brand Durasan® vinyl covered panels. All Durasan panels can be applied directly to studs or as a finish layer over gypsum board. Durasan panels are especially suited for most demountable partition systems. Because Durasan is prefinished, it is generally less expensive to install than building a wall and then applying a wall covering material.
Durasan is the registered trademark for National Gypsum Company prefinished gypsum wall panels. This quality paneling combines the time-proven characteristics of gypsum board with the beauty, colors, textures, and durability of a wide variety of vinyl coverings.
Durasan can be toploaded on gypsum trucks and is available from most National Gypsum plants. Some plants maintain inventories of the most popular colors and patterns, which are available for immediate shipment.

Technical Data

PHYSICAL PROPERTIES

Thickness: Available 1/2” thick as a standard product. Fire-Shield Durasan is also available as a special order item in 5/8” thickness.

Width: Durasan panels are 4’ wide.

Lengths: 8’, 9’ and 10’.

Special lengths may be available. Consult your local sales representative for more information.


NONCOMBUSTIBLE
Durasan panels are considered noncombustible, since they meet the following generally accepted requirements:
1. A structural base of noncombustible material such as gypsum.
2. A surface material not over 1/8” thick which has a flame spread of not over 50.

FIRE RATED CONSTRUCTION
Assemblies employing Durasan panels used as a wall surfacing material have been accorded fire resistance ratings by Factory Mutual Research Corp. and Underwriters Laboratories.

VAPOR PERMEANCE
The water vapor permeance of Durasan panels is less than 1.0 perms by the Wet Cup Method and less than 0.5 perms by the Dry Cup Method at typical conditions of 73°F and 50% relative humidity, tested in accordance with ASTM E 96. Caution: Durasan vinyls are vapor retarders, and a second vapor retarder should not be placed behind these products, i.e. kraft face insulation. For this reason, foil backed Durasan is not available.

COLOR PERMANENCE
The high-quality vinyl surface of Durasan panels offers good fade resistance. The vinyl films are specially formulated with light-stable compounds and pigments to provide maximum stability and color retention under varying environmental conditions.

CLEANING
Complete removal of dirt, stains and marks is easier if cleaning action is started before staining material has dried, cured or set.

To remove most common dirt and marks, simply rub lightly with a moistened cloth, sponge or soft hair bristle brush, using a mild soap, detergent or non-abrasive cleaner. Then rinse with water and wipe dry.

More stubborn stains can be safely removed by wiping away excess material, scrubbing the stained area with a stiff bristle brush wetted with appropriate solvent as listed in chart below, and quickly wiping dry with a clean cloth.

Caution: The use of strong organic solvents (such as ketones), harsh abrasive cleaners or steel wool are not recommended. These materials may cause dulling, discoloration, softening and other permanent damage to the vinyl surface.

Some proprietary solvent cleaners used for fabric spot stain removal may remove the vinyl surface overprint pattern.

If the suitability of any cleaning agent is unknown, check its effect on the Durasan surface in a hidden area or on a scrap piece before attempting to remove a field stain.

CLEANING RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Common Staining Material</th>
<th>Recommended Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease, tar, shoe polish, lipstick, oil paints</td>
<td>Kerosene or mineral spirits</td>
</tr>
<tr>
<td>Nail polish</td>
<td>Denatured alcohol</td>
</tr>
<tr>
<td>Ink (regular or ballpoint)</td>
<td>1:1 mixture—Denatured alcohol and Aromatic 150*</td>
</tr>
</tbody>
</table>

*Aromatic 150 is a proprietary solvent manufactured by Exxon Company USA.
ABRASION RESISTANCE
Durason panels are extremely abrasion resistant, and are tested by a Taber Abraser with CS-17. Calibrate wheels and a 500 gram loading. Durason has withstood over 10,000 revolutions without breaking through the vinyl film. During this testing, some loss of texture and overprint resulted.

PAINTING
Durason is a factory-finish decorative product which does not require painting. However, if desired, Durason can be satisfactorily painted with the following products:
1. Two coats of an alkyd or latex semigloss enamel.
2. Oil primer with finish coat of oil paint or flat latex.
3. Two coats of flat oil paint.

PATCHING
It is suggested that scraps of Durason be saved in case patching a damaged area is necessary. When patching small rips or tears, remove the vinyl film from a Durason scrap. Place the film over the damaged area and, using a razor blade or very sharp knife, make straight cuts through both layers of film. The damaged film underneath is then removed and the patch cemented in its place with a good quality vinyl-to-vinyl adhesive.

WALLCOVERING
Matching Durason in 30 Lineal Yard Rolls
Fabric-backed vinyl film is available in most Durason patterns, colors and textures for field application to provide a close, commercial color match for use on columns, curved surfaces or where extensive cutouts would make Durason panels difficult to use. Because field-applied vinyl is fabric-backed, the Durason panels and the complementary vinyl roll goods may vary slightly in color and texture.

Durason fabric-backed wallcoverings meet or exceed the criteria outlined in Federal Specification CCC-W-408B.

LIMITATIONS
High Heat
Durason panels have the same limitations regarding heat as regular gypsum board and should not be used in areas where surface temperatures will exceed 125°F.

Durason panels are not suitable for use behind stoves where direct heat or steam could affect the panel covering.

Moisture Conditions
Durason panels should not be used around bath tubs, in shower enclosures or in areas where panels will be subject to free moisture.

When Durason panels abut concrete floors and/or ceilings, cut the panel to allow a minimum of 1/8” clearance between panels and floors and/or ceilings to prevent potential wicking.

Treated Lumber
If Durason panels will be applied over treated lumber, tests should be conducted prior to application to be sure the chemical treatment of the wood does not affect the bond or color of the panel covering.

Masonry Walls
Do not apply Durason panels over wet or damp masonry walls. Mildew or staining problems could result if the walls are not dry or will not remain dry.

Trim Application
Plastic, wood or metal trim must be applied at both floor and ceiling. Trim should be applied carefully to Durason panels to avoid creating excessive pressures which might later cause delamination of the covering.

Color Variation
Since manufacturers of the laminate used on Durason panels finish to a commercial color match, minor color variations are possible. Therefore, care should be taken during application to ensure that panels applied on single walls or visual areas are color matched to minimize any such variations in the laminate.

Storage and Handling
Durason panels are a prefinished product, and as such, special care should be taken during their storage and handling.

Durason panels should be stored inside a warehouse or other suitable structure where it will not be exposed to the weather or to temperatures exceeding 125°F. Durason panels should never be stored outside. A firm, dry and level floor is recommended to ensure that stacks of Durason panels are evenly supported and away from dampness. Durason panels should not be stored in areas of excessive humidity or in heavy traffic areas where they may be damaged by fork trucks or other warehouse equipment. Avoid storing Durason panels at aisle corners whenever possible.

Units of Durason panels should be properly supported to minimize sagging and waviness.

Use extra care in the placement of risers (also known as dunnage or spacers). Vertical alignment of these risers is critical to the proper storage of Durason panels. The diagrams below indicate the correct and incorrect method of placing risers when storing Durason panels.

Correct Method Of Placing Risers

Cumulative pressure on unsupported lower units causes gypsum board to sag. Risers are not spaced evenly or in proper vertical alignment.

Incorrect Method Of Placing Risers

A minimum number of risers should be used based on the length of the Durason panels as indicated by the following chart.

<table>
<thead>
<tr>
<th>Minimum number of risers</th>
<th>7–8</th>
<th>9–11</th>
<th>12–14</th>
<th>15–16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum number of risers</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

The following guidelines should be used when warehousing Durason panels to avoid the potential of sagging, blocking or emboss flattening.

WAREHOUSING REQUIREMENTS
Laminated panels shall be warehoused as follows:

<table>
<thead>
<tr>
<th>Product Thickness</th>
<th>Pieces Per Unit (Max.)</th>
<th>Units Per Stack (Max.)</th>
<th>Total Pieces Per Stack (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>50</td>
<td>4</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>3</td>
<td>180</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>2</td>
<td>200</td>
</tr>
<tr>
<td>5/8”</td>
<td>40</td>
<td>4</td>
<td>160</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>3</td>
<td>144</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>2</td>
<td>160</td>
</tr>
</tbody>
</table>

Unusual conditions during warehousing such as high humidity and long term storage may require the use of additional risers per unit length and or a reduction in the number of total pieces per stack.
**Accessories**

**MATCHING TRIM (Snap-On)**
Two-part, Snap-On Outside Corner and Interior Trim consist of galvanized steel retainers and matching vinyl snap-on facings. Both trim pieces are installed after the Durasan panels are erected. Each may be used with any Durasan thickness. Retainers are secured through the Durasan into the framing.
Snap-On Interior Trim may also be used at interior corners, at ceiling line and as a batten. Snap-on Trim can be used in Fire Rated Assemblies.

**SNAP-ON OUTSIDE CORNER TRIM**

**SNAP-ON INTERIOR TRIM**

**1/2" PANELS ONLY**

**MATCHING TRIM (One Piece for 1/2" panels only)**
Single-Part Trim (see below) is available in vinyl shapes to match all standard vinyl Durasan colors for 1/2" panels. Dimensions shown are trim for 1/2" panels.

**ONE-PIECE MATCHING TRIM FOR 1/2" PANELS ONLY**

<table>
<thead>
<tr>
<th>Shapes</th>
<th>Vinyl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divider</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>Outside Corner</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>Inside Corner</td>
<td>1/2&quot; Ground Only</td>
</tr>
<tr>
<td>End Cap</td>
<td>11/16&quot;</td>
</tr>
</tbody>
</table>

One piece trims are progressive in nature and as such must be installed at the same time as the Durasan panels.
General Installation

INSTALLING DURASAN PANELS

Several methods of installation may be used with Durasan products in order to meet specific job requirements. As in regular drywall construction, ceilings are installed first, before Durasan paneling is erected. Panels are attached vertically. Durasan should not be applied to ceilings.

APPLICATION OF DURASAN

Apply the 1/2” or 5/8” Durasan vertically. Start at the end of a wall or partition intersection and cut the first panel if necessary so that its leading, uncut edge (the direction in which work will progress) falls at the center of a framing member.

CUTTING DURASAN PANELS

Scoring and snapping is the easiest and fastest way to make straight cuts. To do this, merely score the pre-decorated surface with a sharp knife guided by a thin board with a straight edge. Then position the scored panel so the piece to be removed is overhanging a straight edge parallel to the scored mark. Press this free end until the gypsum core snaps. Cut the back paper to remove excess piece.

Sawing Durasan Panels is easier than cutting lumber. For best results, keep the prefinished surface up and use a sharp, fine-tooth saw or appropriate router bit.

Note: Cut Durasan panels to length, 1/4” shorter than ceiling height so panels are not forced into place.
Two Options of Installation

OPTION 1

ADHESIVE RECOMMENDATIONS

Durasan panels are quality wall paneling products that can be applied to wood studs, provided an appropriate drywall adhesive meeting ASTM C 557 is applied to the studs. Durasan panels can be adhesively applied to steel studs, provided an appropriate adhesive recommended for use with vinyl faced gypsum board and steel studs is used. Consult adhesive manufacturer for a suitable adhesive product. Steps for this application, which are limited to walls only, are as follows:

1. Durasan panels are applied vertically to steel or wood studs or to furring strips that are straight, on one plane, and located 16” or 24” o.c.

2. All panels must be “bowed,” or pre-curved the length of the board, so that when applied to the adhesive coated studs, a natural pressure will result at the center of the panel when nailed or screwed top and bottom. (See “Bowing the Board” section to right.)

APPLICATION – ADHESIVE

3. Each stud that has two panels meeting to form a joint should have two beads of adhesive, each one located as close to each edge of the stud as possible. This reduces the possibility of adhesive oozing through the joint and getting on the prefinished surface. All other studs must receive a single bead of adhesive. Apply panels within 15 minutes of adhesive application.

4. When using adhesive, nail or screw the panel at the floor and ceiling line, spacing fasteners 6” to 8” apart.

5. If cove moulding or baseboards are to be omitted, you may wish to attach each panel at top and bottom with 1-3/8” matching Color Pins in place of 1-1/4” wallboard nails when using wood studs.

6. Immediately remove any adhesive that may have been deposited on tools or the prefinished surface.

OPTION 2

LAMINATING RECOMMENDATIONS

1. Apply to clean, dry, sound surfaces only. Remove all wallpaper, high points, calcimine, loose paint, and scratch any other paint for good bond. Test any painted surface by laminating a small sample. Allow to dry and check bond.

2. Bow the Durasan panels (see Bowing the Board) so that each panel, when nailed at top and bottom, will have built-in pressure being exerted at the center of the board on the existing wall until the adhesive dries.

3. Apply the drywall adhesive with a caulking gun to the back surface of each panel, using 3/8” diameter beads 16” apart. Apply beads parallel to and 3/4” to 1” from each long edge of the panel.

4. Laminate with Joint Compound. Durasan panels can be laminated to existing surfaces with ProForm® brand Quick Set® Setting Compound or ProForm All Purpose Ready Mix Joint Compound.

Joint compound is applied as nominal 5” ribbons or four 1/4” x 1/4” beads located around the perimeter and center of the panels. (approximate coverage for Ready Mix is 9-10 gal./1000 sq. ft. and Quick Set® is 50-60 lbs./1000 sq. ft.). An alternative is 2” diameter daubs 1/2” thick, 16” o.c. (approximate coverage for Ready Mix is 5-1/2 — 6 gal./1000 sq. ft. and Quick Set® is 30-35 lbs./1000 sq. ft.).

5. Nail or screw panels at top first. Locate 6d nails or 1-7/8” drywall screws 6” to 8” apart. Press panels progressively from ceiling to floor line. Nail at floor line if necessary. If panels do not stay in proper alignment, add temporary bracing for 24 hours. Use suitable moulding at floor and ceiling line to cover exposed fasteners.

BOWING THE BOARD

(Bowing the Board (Required in Methods #2 and #3)

Durasan panels must be warped or bowed to give pressure at the center of the board during adhesive and cementing applications. If the boards were not bowed, temporary bracing would be required. Illustrated are two methods of bowing. Be sure to remove bundling tape from the boards. Cut to proper ceiling height, and stack as shown with all prefinished surfaces facing up or down depending on which method of bowing is used. Use padded blocks cut from 2 x 4’s to protect prefinished surfaces. Stack in such a manner that, when applying, each panel would have a tendency to spring away at the top when nailed at the bottom. Proper bowing can take from one to several days depending on weather conditions.
Specifications
Section 09 72 00
Prefinished Gypsum Wall Panels
This section is written in CSI 3-part format and it assumes that the general conditions of the contract will be AIA A201. This section is proprietary and includes only National Gypsum products.

PART 1 GENERAL
1.01 Summary
A. Section Includes: Factory finished gypsum board with trim system for joints.

1.02 System Description
A. Performance Requirements: Provide UL listed materials with fire hazard classification of surface covering, as determined by ASTM E 84, as follows:
   1. Flame spread not more than 25 (Vinyl Durasan).
   2. Smoke developed of not more than 50 (Vinyl Durasan).

1.03 Submittals
A. Product Data: Manufacturer’s specifications and installation instructions for each product specified.
B. Samples: Minimum 2”x 5” samples of manufacturer’s full range of patterns and colors for each panel covering material specified.

PART 2 PRODUCTS
2.01 Manufacturer
A. National Gypsum Company.

2.02 Materials
A. Gypsum Board:
   1. National Gypsum Durasan Prefinished Regular Gypsum Board.
B. Panel Covering:
   1. National Gypsum Vinyl Durasan.

2.03 Accessories
A. Trim: Durasan Matching Trim, Snap-On.
B. Trim: Durasan Matching Trim, One Piece.

C. Fasteners, Adhesives, and Joint Compounds:
   1. Screws: ASTM C 954 or ASTM C 1002 or both with threads, points, and finish as recommended by the manufacturer.
   2. National Gypsum ProForm® Brand All Purpose Ready Mix Joint Compound.
   3. National Gypsum ProForm® Brand Multi-Use Joint Compound.
   4. National Gypsum ProForm® Brand Quick Set™ Setting Compound.

PART 3 EXECUTION
3.01 Installation
A. In accordance with the manufacturer’s recommendations.
   1. National Gypsum’s Durasan Prefinished Gypsum Board

3.02 Protection
A. Protect prefinished gypsum wall panel installations from damage and deterioration until the date of Substantial Completion.
LIMITED WARRANTY AND REMEDIES

Products manufactured and sold by National Gypsum are warranted by National Gypsum to its customers to be free from defects in materials and workmanship at the time of shipment. THIS EXPRESS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO SUCH PRODUCTS, AND IS IN LIEU OF AND EXcludes ALL OTHER EXPRESS ORAL OR WRITTEN WARRANTIES AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

National Gypsum will not be liable for any incidental, indirect or consequential losses, damages or expenses. The customer’s exclusive remedy for any type of claim or action for defective products will be limited to the replacement of the products (in the form originally shipped) or, at National Gypsum’s option, to a payment or credit not greater than the original purchase price of the products.

National Gypsum will not be liable for products claimed to be defective where the defect resulted from causes not within National Gypsum’s control, or which arose or occurred after shipment, including but not limited to accidents, misuse, mishandling, improper installation, contamination or adulteration by other materials or goods, or abnormal conditions of temperature, moisture, dirt or corrosive matter.

Any claim that products sold by National Gypsum were defective or otherwise did not conform to the contract of sale is waived unless the customer submits it in writing to National Gypsum within thirty (30) days from the date the customer discovered or should have discovered the defect or nonconformance. No legal action or proceeding complaining of goods sold by National Gypsum may be brought by the customer more than one year after the date the customer discovered or should have discovered the defect or problem of which it complains.