

**Gold Bond<sup>®</sup> BRAND**

# **Durasan<sup>®</sup>** **Prefinished Gypsum Board**



**National**   
**Gypsum<sup>®</sup>**

# Beautiful Walls Don't Get Any Easier Than This!



*Santa Fe Adobe*



*Santa Fe Porcelain*

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.

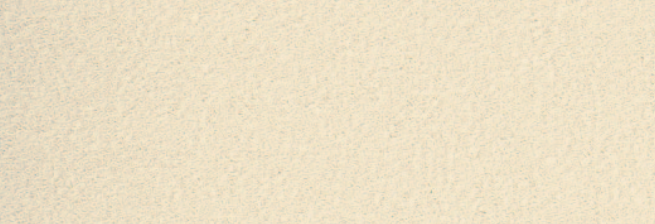
## An Easy Choice

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



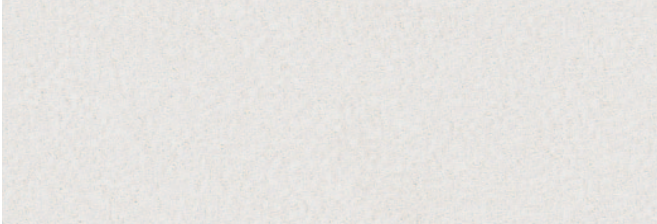
Champagne



Chiffon



Off White



Cloud

## Group 3 – Santa Fe



Porcelain

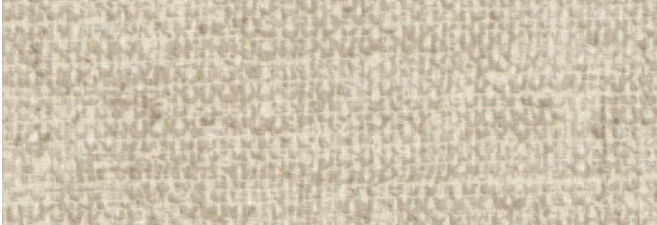


Adobe

## 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

# Gold Bond® BRAND Durasan® Prefinished Gypsum Board

## 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.

**Edges:** The long edges of all Durasan panels are wrapped with a vinyl film covering. Panel edges are beveled.

Vinyl covered Durasan panels comply with ASTM Specification C 1396 and Federal Specification SS-L-30D. Approved by Board of Standards and Appeals for use in New York City under Calendar Nos. 709-39.

### 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.

### SURFACE BURNING CHARACTERISTICS

(Fire Hazard Classification)  
(ASTM E 84) Source: Underwriters Laboratories, Inc.

Product	Flame Spread	Smoke Developed
Durasan Vinyl	25 or less	50 or less

### DURASAN AVERAGE LIGHT REFLECTANCE VALUES\*

Group	Pattern	Color	Reflectance Value
Group 1	Stipple	Champagne	69
		Chiffon	77
		Cloud	69
		Off White	85
Group 3	Santa Fe	Porcelain	69
		Adobe	55
	Harvest	Cotton	65
		Oyster White	52
		Rice	68

\*X-RITE 968 Reflection Spectrophotometer used in accordance with ASTM Test Method E 97.

### DURASAN VAPOR PERMEANCE VALUES

Patterns	Perms	mil	(mm)
Stipple	0.49	6	0.15
Santa Fe	0.25	6	0.15
Harvest	0.28	6	0.15

Above vapor permeance values determined using the Dry Cup (Desiccant) Method at typical conditions of 70°F (21.1°C) and 50% Relative Humidity in accordance with ASTM E 96.

### 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

Common Staining Material	Recommended Solvent
Grease, tar, shoe polish, lipstick, oil paints	Kerosene or mineral spirits
Nail polish	Denatured alcohol
Ink (regular or ballpoint)	1:1 mixture—Denatured alcohol and Aromatic 150*

\*Aromatic 150 is a proprietary solvent manufactured by Exxon Company USA.

## ABRASION RESISTANCE

Durasan panels are extremely abrasion resistant, and are tested by a Taber Abraser with CS-17 Calibrate wheels and a 500 gram loading. Durasan has withstood over 10,000 revolutions without breaking through the vinyl film. During this testing, some loss of texture and overprint resulted.

## PAINTING

Durasan is a factory-finish decorative product which does not require painting.

However, if desired, Durasan 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 Durasan be saved in case patching a damaged area is necessary. When patching small rips or tears, remove the vinyl film from a Durasan 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 Durasan in 30 Lineal Yard Rolls

Fabric-backed vinyl film is available in most Durasan 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 Durasan panels difficult to use. Because field-applied vinyl is fabric-backed, the **Durasan panels and the complementary vinyl roll goods may vary slightly in color and texture.**

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

## LIMITATIONS

### High Heat

Durasan 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.

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

### Moisture Conditions

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

When Durasan 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 Durasan 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 Durasan 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 Durasan panels to avoid creating excessive pressures which might later cause delamination of the covering.

### Color Variation

Since manufacturers of the laminate used on Durasan 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

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

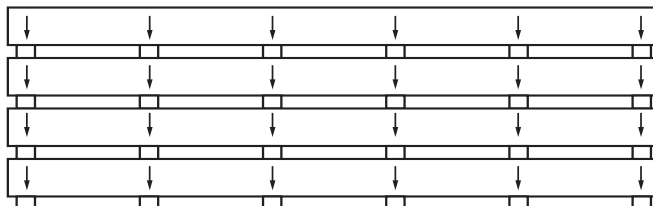
Durasan panels should be stored inside a warehouse or other suitable structure where it will not be exposed to the weather or to temperatures exceeding 125° F. Durasan panels should never be stored outside. A firm, dry and level floor is recommended to ensure that stacks of Durasan panels are evenly supported and away from dampness. Durasan 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 Durasan panels at aisle corners whenever possible.

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

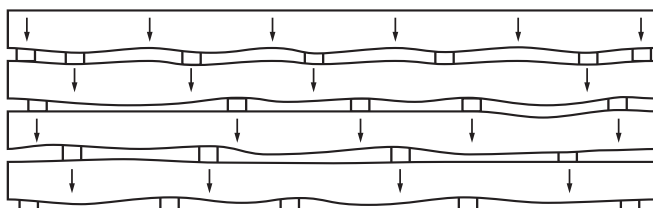
Use extra care in the placement of risers (also known as dunnage or spacers). Vertical alignment of these risers is critical to the proper storage of Durasan panels. The diagrams below indicate the correct and incorrect method of placing risers when storing Durasan panels.

### Correct Method Of Placing Risers



*Note that all risers are placed in proper vertical alignment so each tier is evenly supported. Arrows indicate pressure.*

### Incorrect 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.*

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

#### MINIMUM NUMBER OF RISERS PER UNIT

Unit length in feet	7-8	9-11	12-14	15-16
Minimum number of risers	4	5	6	7

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

#### WAREHOUSING REQUIREMENTS

Laminated panels shall be warehoused as follows:

Product Thickness	Pieces Per Unit (Max.)	Units Per Stack (Max.)	Total Pieces Per Stack (Max.)
1/2"	50	4	200
	60	3	180
	100	2	200
5/8"	40	4	160
	48	3	144
	80	2	160

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

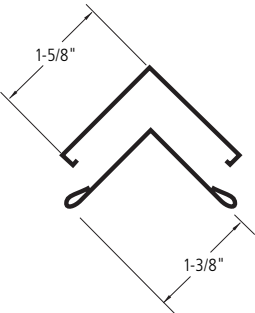
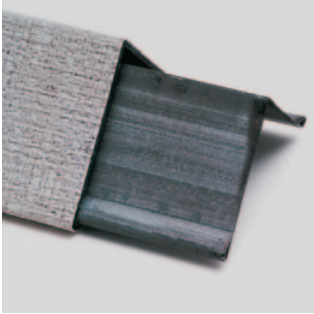
## MATCHING TRIM (Snap-On)

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

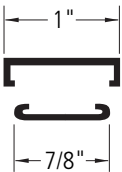
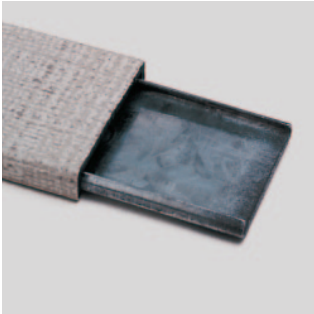
are erected. Each may be used with any Durasan thickness. Retainers are secured through the Durasan into the framing.

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

ONE-PIECE MATCHING TRIM FOR 1/2" PANELS ONLY	
Shapes	Vinyl
Divider	
Outside Corner	
Inside Corner	
End Cap	



## 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.

### PANEL LAYOUT

Before application, proper arrangement of panels should be studied. For a most pleasing result, all joints of panels should be centered on architectural features of the wall, such as fireplaces, windows, doors, etc. If the wall contains no such openings, arrange for the two end panels to be of equal width. Narrow strips are difficult to install and should be avoided. Any special use of decorative trims and moulding should be considered at this time.

### CORNER TREATMENT

**Inside Corners:** Where two walls intersect to form an inside corner, the last panel installed at this intersection should have two finished edges to create a professionally installed look. See photographs, "Forming A Narrow Plank With Two Finished Edges," for directions on finishing an edge on the job. This treatment can be eliminated by using Durasan Snap-On Interior Trim.

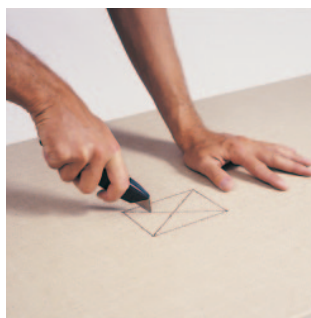
**Outside Corners:** Wood, plastic or metal corner mouldings, nailed or glued to wood or steel framing, are recommended for edge protection where panels meet to form outside corners. These mouldings can be stained or painted either in matching or contrasting colors, or use matching Durasan Snap-On Cornerbead.



**Curved Cuts** can be made easily with a keyhole saw. If an area must be cut from the center of the board, it is recommended that a hole be bored that will take the point of the saw.



**Where Two Cuts Join**, one cut must be made with a saw, the other cut can be made by scoring and snapping. Cuts like this are required around door and window openings.



**Electrical Outlet Box** openings can be made easily by cutting the Durasan as shown by the solid lines in the picture above. Strike a sharp hammer blow to the "X". Cut away back paper.

### FORMING A NARROW PLANK WITH TWO FINISHED EDGES



**1. Cut Decorative Surface** with a sharp knife to a dimension of 1" wider than the panel width desired. Then turn vinyl surface face down.



**2. Score Back Surface** with knife to the desired panel width. Snap gypsum core and peel this 1" piece from decorative surface. Smooth core if uneven.



**3. Wrap** the excess flap of vinyl over the exposed gypsum core and staple to back.

## Two Options of Installation

### OPTION 1

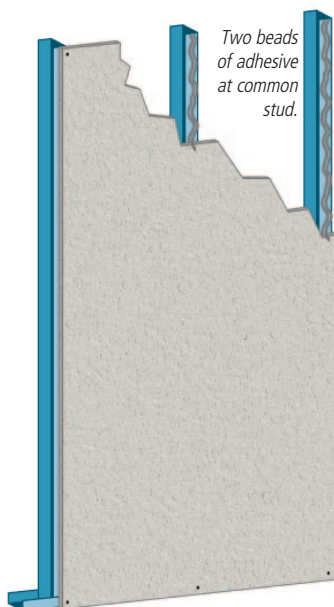
#### ADHESIVE RECOMMENDATIONS

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



*Nailing or screwing is required only at top and bottom of prefinished gypsum panels when adhesive is applied and panels are prebowed to give pressure at the center of the board.*

**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 wall-paper, 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.).

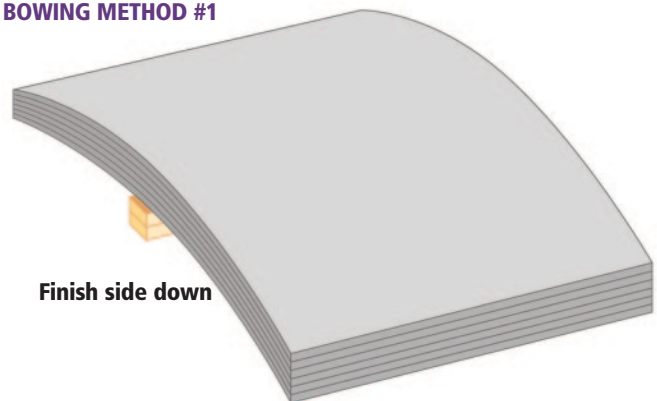
**5. Nail or screw panels at top first.** Locate 6d nails or 1-7/8" drywall screws 6" to 8" apart. Press panels progressively from ceiling to floor line. Nail at floor line if necessary. If panels do not stay in proper alignment, add temporary bracing for 24 hours. Use suitable moulding at floor and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

### BOWING THE BOARD (Required in Methods #2 and #3)

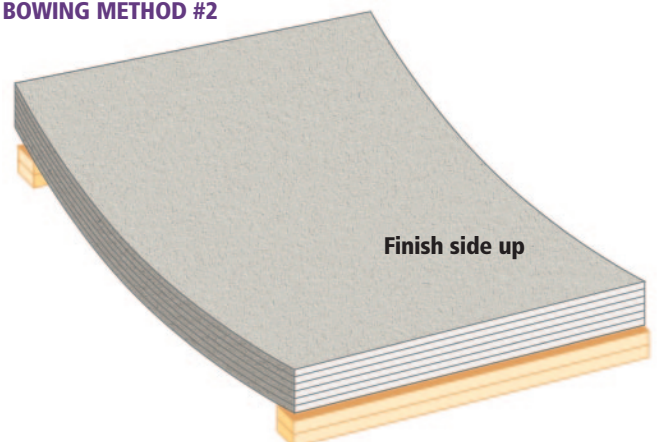
Durasan panels must be warped or bowed to give pressure at the center of the board during adhesive and cementing applications. If the boards were not bowed, temporary bracing would be required.

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.

#### BOWING METHOD #1



#### BOWING METHOD #2



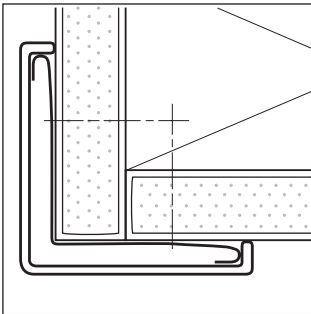


## SNAP-ON TRIM

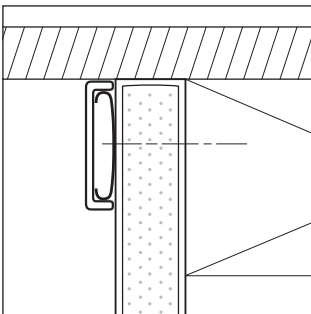
1. Apply Durasan and base trim in normal manner before installing outside corner trim, then proceeding with any interior ceiling and corner trim.
2. Cut steel retainers to fit outside corners, interior ceiling and corner trim.
3. Nail or screw attach retainer strip. Space fasteners 8" o.c. for interior ceiling and corner retainers, and 12" o.c. for outside corner retainers. All retainers should begin fasteners 1/2" from each end.
4. Cut face cover to length with tin snip or miter cut. After cutting cover, restore flanges to original configuration by using a screwdriver blade as a wedge. Snap cover over retainer by engaging one leg on retainer flange. Then use palm or thumb pressure until opposite leg engages retainer flange and snaps into place.

## SNAP-ON TRIM APPLICATION METHODS

Exterior Corner



Interior Corner



## 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"x5" 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.
2. National Gypsum Durasan Prefinished Fire-Shield 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

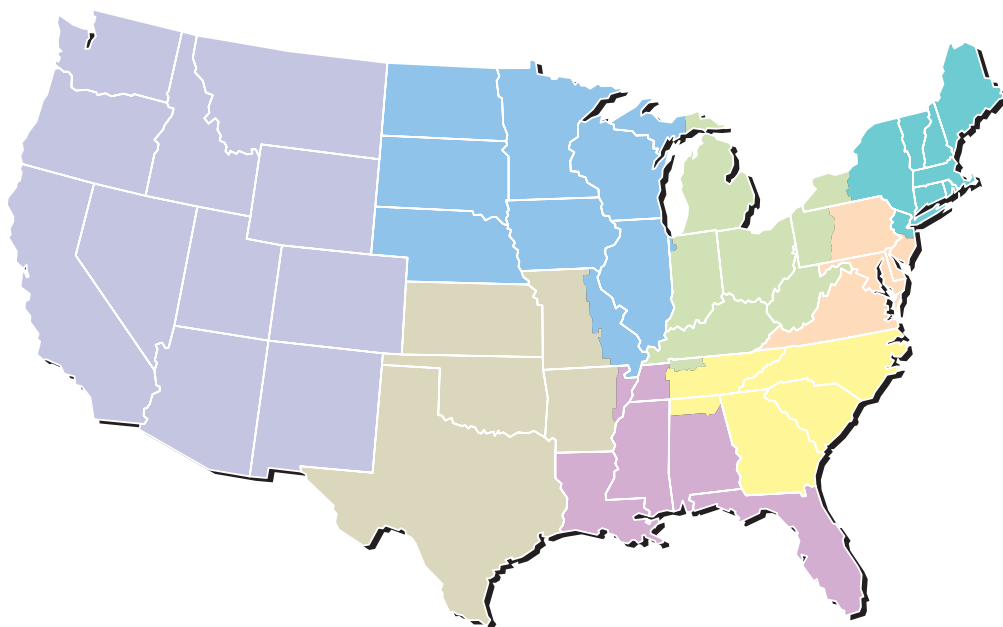
- A.** In accordance with the manufacturer's recommendations.

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.

## CUSTOMER SERVICE SALES AREAS



### Atlantic Area

Phone: (800) 237-9167  
Fax: (877) 252-0430

### Central Area

Phone: (800) 252-1065  
Fax: (866) 232-0440

### Gulf Area

Phone: (800) 343-4893  
Fax: (866) 482-8940

### Midwest Area

Phone: (800) 323-1447  
Fax: (866) 692-8590

### Northeast Area

Phone: (800) 253-3161  
Fax: (866) 632-1480

### Southeast Area

Phone: (800) 548-9394  
Fax: (866) 732-1990

### Southwest Area

Phone: (800) 548-9396  
Fax: (866) 792-7520

### Western Area

Phone: (800) 824-4227  
Fax: (800) 438-6266

### National Accounts

Phone: (800) 440-1230  
Fax: (866) 622-3590

### Manufactured Housing

Phone: (800) 455-3185  
Fax: (800) 639-1714

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