

Perkins+Will, Inc. | 2218 Bryan Street, Suite 200 Dallas TX 75201 United States

PROJECT: 146054.000 JE Muchert SA1 DATE SENT: 6/13/2018
 146054.000 RETURN BY: 6/27/2018

SUBJECT: Concrete Forming and Accessories- SUBMITTAL ID: 03 10 00-001
 Void Forms Product Data

TYPE: Submittal TRANSMITTAL ID: 00059

PURPOSE: For Review VIA: Info Exchange

SPEC SECTION: 03 10 00

FROM

NAME	COMPANY	EMAIL	PHONE
Tori Wickard	Perkins+Will, Inc.	tori.wickard@perkinswill.com	214.283.8797

TO

NAME	COMPANY	EMAIL	PHONE
Andy Ayers	Raymond L. Goodson Jr., Inc.	aayers@rlginc.com	214.739.8100

REMARKS: Good Afternoon If you will please review the attached submittal for the Void Boxes.

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NUMBER	NOTES
1	6/11/2018	VOID BOXES SUBMITTALS.pdf		

VA VoidForm. Products, Inc.

05/31/2018

Denco Construction Specialists
5525 Lyons Road
Garland, TX 75043

Attn: Shawnee Hallmark

Re: Submittal for:



Shawnee,

The attached sheets, including individual product pages, technical notes, the "Selection and Care of SureVoid Products", our MSDS disclaimer, our Spec-Data[®] sheet, LEED Certification, and product questionnaire will form our submittal with regard to the following project:

Dallas Park & Recreation Dept Admin Offices
1500 Marilla Street
Dallas, TX 75201

Please feel free to contact us if you have questions or need further information.

Respectfully Submitted,

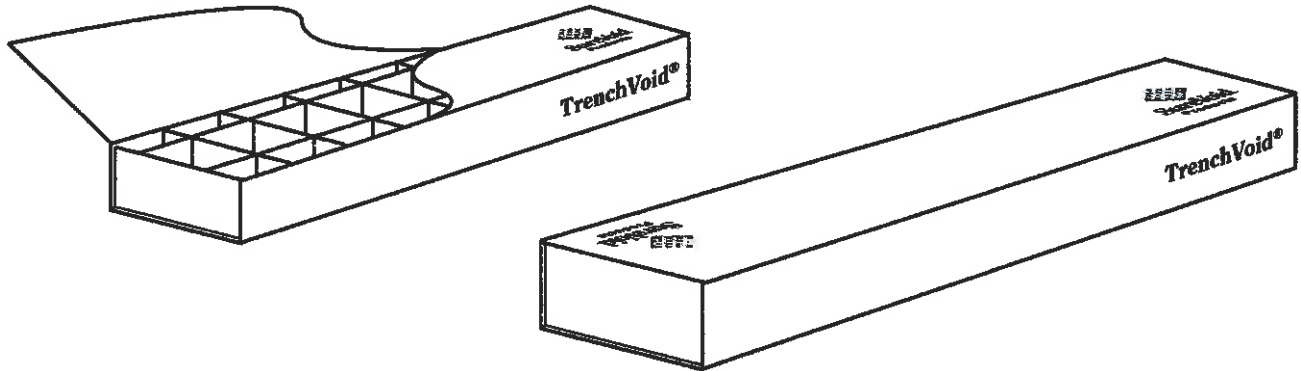
A handwritten signature in black ink, appearing to read "Danny Castro", is written over a light blue horizontal line.

Danny Castro
Sales Support Manager

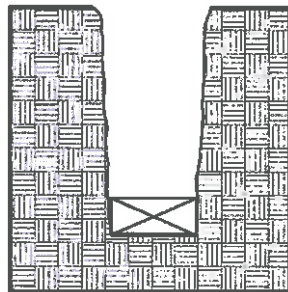
888-803-VOID (8643)
817-429-0888 (Office)
682-478-2536 (Direct)
817-429-7333 (Fax)

Danny.C@VoidForm.com

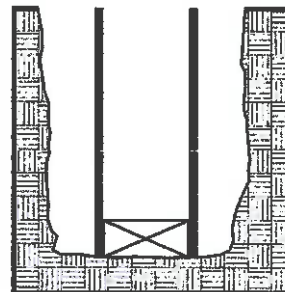
TrenchVoid®



Earth-Formed



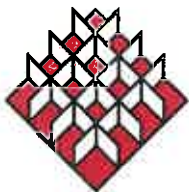
Panel-Formed



(soil retainer not shown for clarity)

NOTES:

1. Function: Properly creates void space directly under concrete grade beams or walls
2. Description: Rectangular carton void form with vertically-supported, sealed ends that prevent liquid concrete from flowing into the interior and is available as a pre-manufactured form, secured with glue (with or without staples), or available in a knockdown form
3. Composition:
 - a. Exterior: Corrugated paper with a moisture-resistant outer surface
 - b. Interior: Corrugated paper arranged in a uniform, cellular configuration
4. Strength: Capable of sustaining specified vertical loads until they become self-supporting, while maintaining full void depth as indicated on the drawings, or as recommended by the manufacturer
5. Accessories: Used in conjunction with permanent soil retainers that prevent soil from entering into the specified void space after the structural degradation of the carton void form
6. Installation: Install in accordance with the manufacturer's recommendations. Protect carton void forms from moisture and damage prior to concrete placement.
7. Acceptable Product / Manufacturer: TrenchVoid® as manufactured by VoidForm Products, Inc. 888-803-VOID (8643)



SureVoid.
Products

TrenchVoid™ Technical Notes

TrenchVoid™ contains various corrugated papers of different strengths and flutes, bonded together with white, water-based, moisture-resistant adhesive and held in place with staples. Its structural strength is designed to weaken by the gradual absorption of moisture as the concrete sets. Thus, an adequate void is attained which will allow the ground to heave without causing structural damage to the concrete wall or grade beam. The TrenchVoid interior is composed of a biodegradable, cellular network and is surrounded by a wax-coated exterior cover.

TYPES AVAILABLE

- TrenchVoid™ – while it can be utilized between the forms in conventional panel forming, it is typically placed in the bottom of a trench where the earth is used to form a grade beam. It is manufactured without a panel flange and is generally the same width as the trench. SureRetainer™ or Backfill Retainer™, both of which retain backfill soil, may be used in conjunction with TrenchVoid in both formed beam construction and over-excavated trench applications.

ADVANTAGES

- Lightweight
- Easy to install
- Waxed exterior for initial water resistance.
- Can be sent either assembled or knockdown (K.D.)

DIMENSIONS APPLICABLE TO PROJECT

HEIGHT – approximately 12"
WIDTH – from approximately 8" to 24"
LENGTH – approximately 60"

TECHNICAL DATA

COVER –

- a) 275# test, C-flute corrugated paper
- b) Waxed / printed exterior
- c) Scored interior

LINER – (optional) 275# test, C-flute corrugated paper

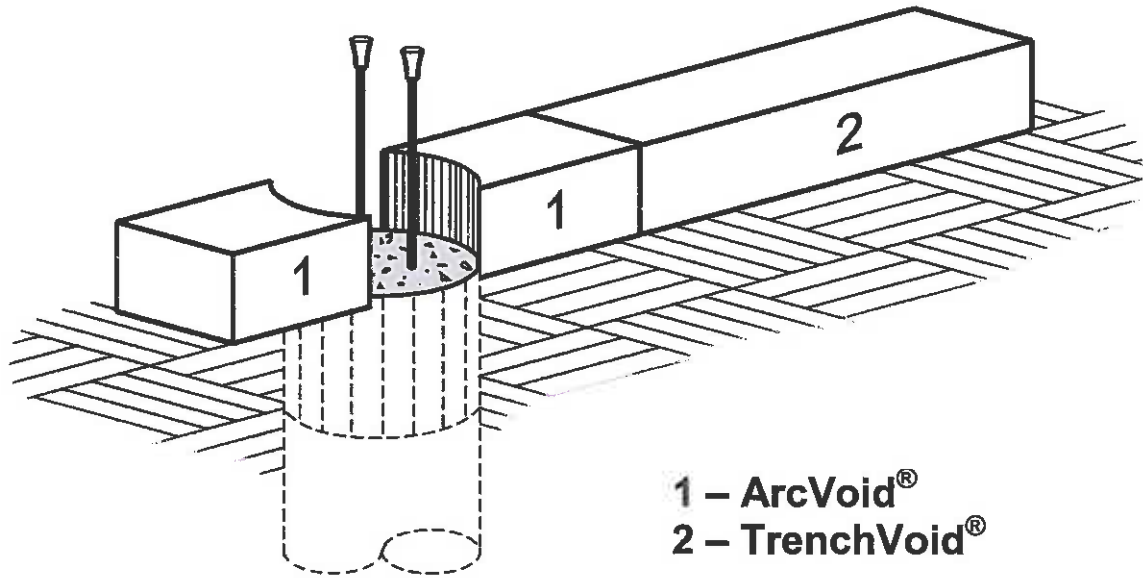
INTERIOR – 275# test, C-flute corrugated paper

STRENGTH – Working load as recommended for wall heights of 3 to 7 feet

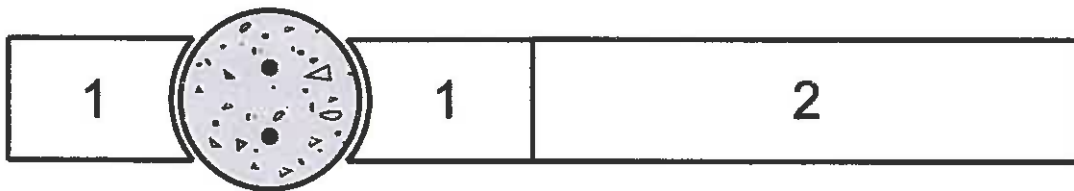
RECOMMENDATIONS

1. Keep TrenchVoid dry at all times prior to concrete placement.
2. Prepare grade to an even, smooth surface.
3. Install ArcVoid® sets or SureRound PierVoid® at piers where required.
4. Place pieces end to end in wall line.
5. Crosscut pieces with handsaw to fit into non-modular areas.
6. Insert end caps on open pieces that will be exposed to concrete.
7. Tape joints or use seam pads to prevent immediate water or concrete silt penetration.
8. Install steel.
9. Place concrete.

ArcVoid®

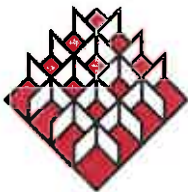


1 – ArcVoid®
2 – TrenchVoid®



NOTES:

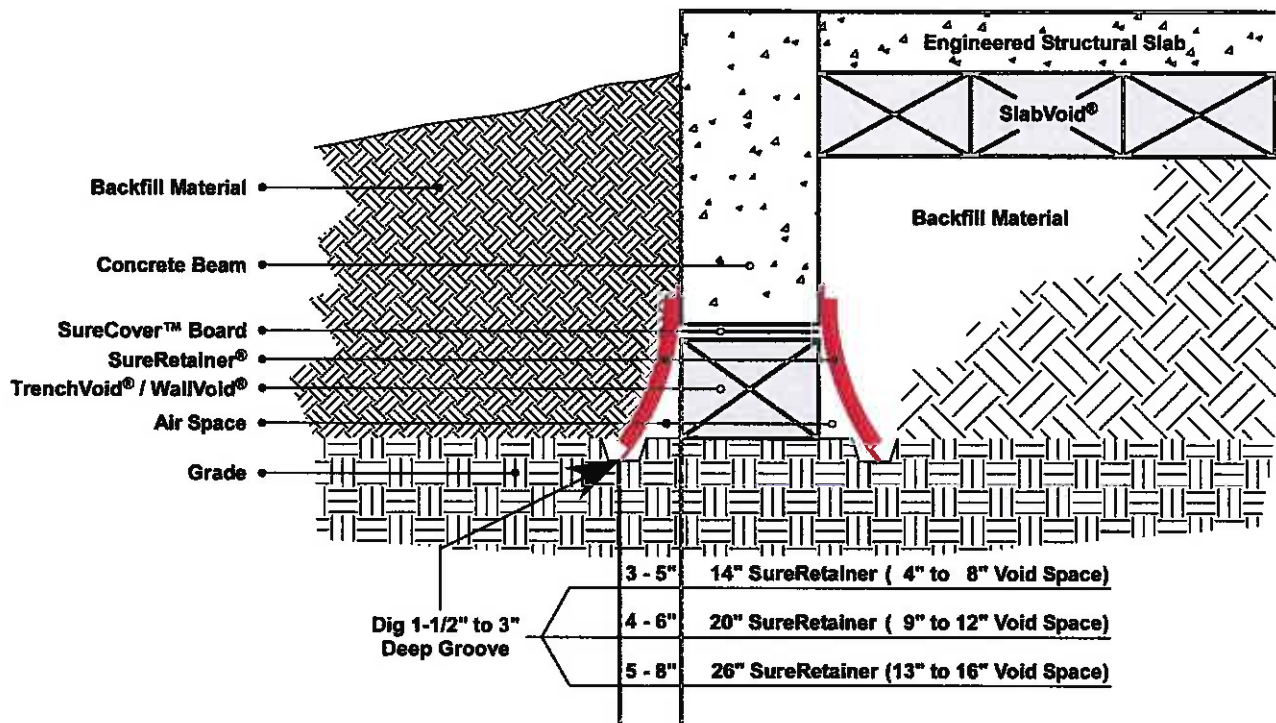
1. Function: Properly creates void space around the upper portion of the drilled pier at its intersection with the grade beam
2. Description: Pre-manufactured, non-field-cut, sealed carton void form, secured with glue (with or without staples), having a curved, radial, vertically-supported edge adjacent to the drilled pier that conforms to the pier diameter
3. Composition:
 - a. Exterior: Corrugated paper with a moisture-resistant outer surface
 - b. Interior: Corrugated paper arranged in a uniform, cellular configuration
4. Strength: Capable of sustaining specified vertical loads until they become self-supporting, while maintaining full void depth as indicated on the drawings, or as recommended by the manufacturer
5. Accessories: Used in conjunction with permanent soil retainers that prevent soil from entering into the specified void space after the structural degradation of the void form
6. Installation: Install in accordance with the manufacturer's recommendations. Protect carton void forms from moisture and damage prior to concrete placement.
7. Acceptable Product / Manufacturer: ArcVoid® as manufactured by VoidForm Products, Inc. 888-803-VOID (8643)



SureVoid.
Products

SureRetainer®

SureRetainer® prevents backfill soil from displacing the carton void form under grade beams and slab edges. It is made of strong, flexible plastic, and is impervious to soil and water. Its lightweight design allows nesting for storage savings and easy handling. It is proven to outperform precast blocks, cement backer boards, fiberboard, or lumber.

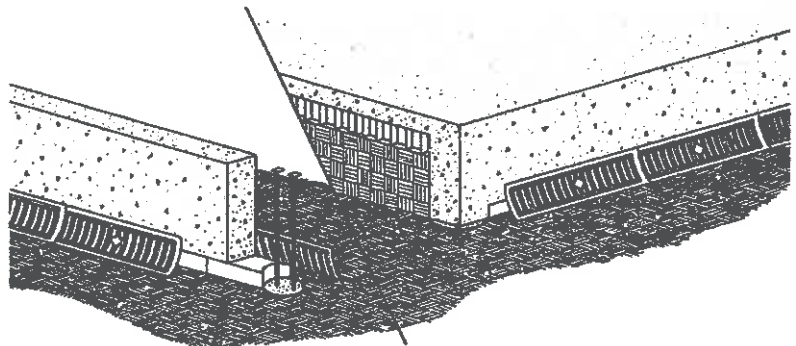


Product Description:

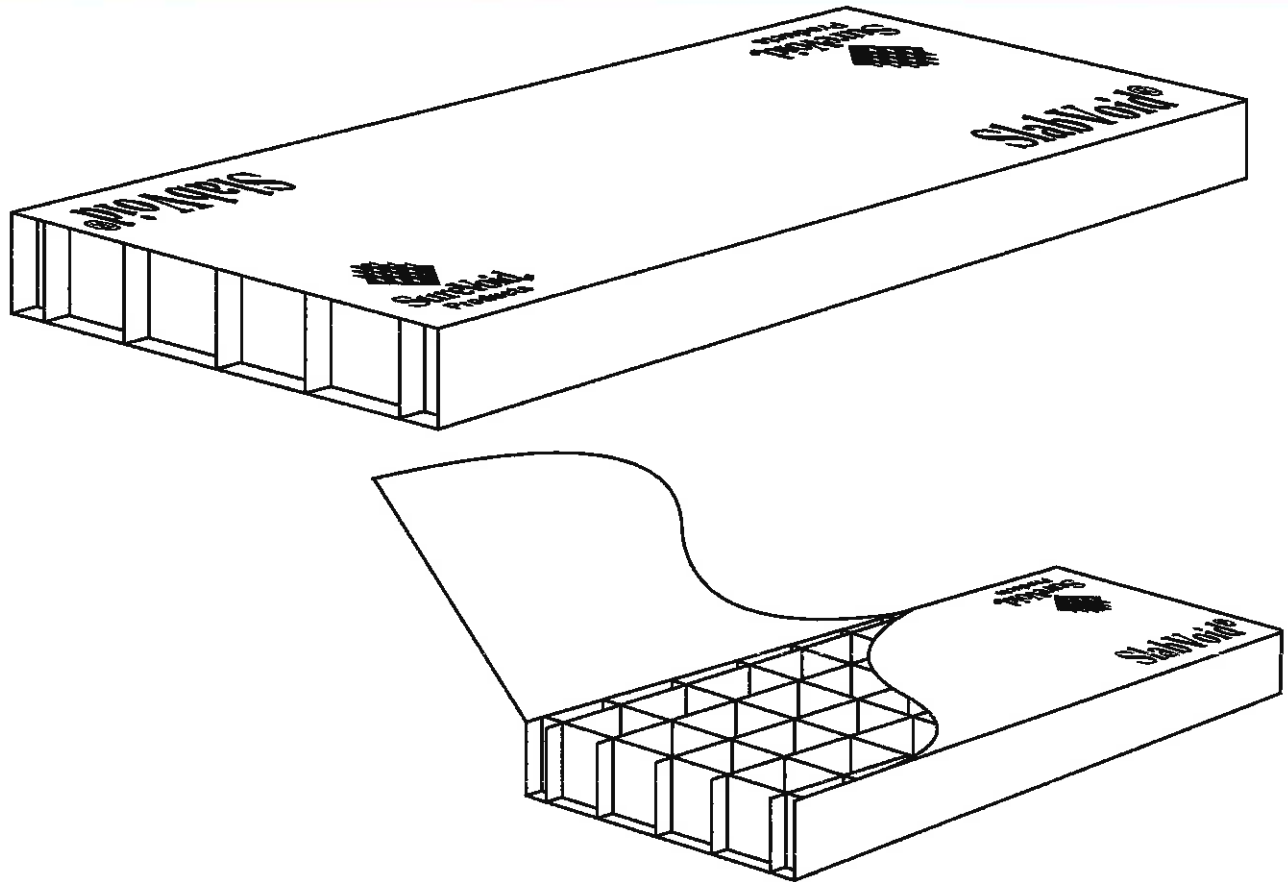
- High density polyethylene (HDPE)
- Black in color
- Framed, ribbed interior
- 3 sizes available:

[14" High x 36" Long] [20" High x 48" Long] [26" High x 48" Long]

(Please contact the manufacturer for recommendations.)

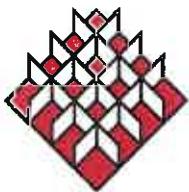


SlabVoid®



NOTES:

1. Function: Properly creates void space directly under structural concrete slabs
2. Description: Open-ended, rectangular carton void form, available as a pre-manufactured form, secured with glue (with or without staples), or available in a knockdown form
3. Composition:
 - a. Exterior: Corrugated paper with a moisture-resistant outer surface
 - b. Interior: Corrugated paper arranged in a uniform, cellular configuration
4. Strength: Capable of sustaining specified vertical loads until they become self-supporting, while maintaining full void depth as indicated on the drawings, or as recommended by the manufacturer
5. Accessories: Used in conjunction with a protective cover sheet over the entire top surface to prevent damage to the carton void form, distribute working loads, span small gaps, and provide a suitable surface for foot traffic during carton void form placement
6. Installation: Install in accordance with manufacturer's recommendations. Protect carton void forms from moisture and damage prior to concrete placement.
7. Acceptable Product / Manufacturer: SlabVoid® as manufactured by VoidForm Products, Inc. 888-803-VOID (8643)



SureVoid.
Products

SlabVoid® Technical Notes

SlabVoid® contains various corrugated papers of different strength and flutes, bonded together with a white, water-based, moisture-resistant adhesive and held in place with staples. Its structural strength is designed to weaken by the gradual absorption of moisture as the concrete sets. Thus, an adequate void is attained which will allow the ground to heave without causing structural damage to the concrete slab. The SlabVoid interior is composed of a biodegradable, cellular network and is surrounded by a wax-coated exterior cover. Liners can be added to the top and bottom of the cell formation.

ADVANTAGES

1. Lightweight
2. Easy to install
3. Waxed exterior for initial water resistance
4. Optional liners discourage deflection and puncture
5. Can be sent either assembled or knockdown (K.D.)

DIMENSIONS APPLICABLE TO PROJECT

HEIGHT – approximately 16"
WIDTH – approximately 30"
LENGTH – approximately 60"

TECHNICAL DATA

COVER –

- a) 275# test, C-flute corrugated paper
- b) waxed / printed exterior
- c) scored interior

LINER(S) – (optional) top or bottom 275# test, C-flute corrugated paper

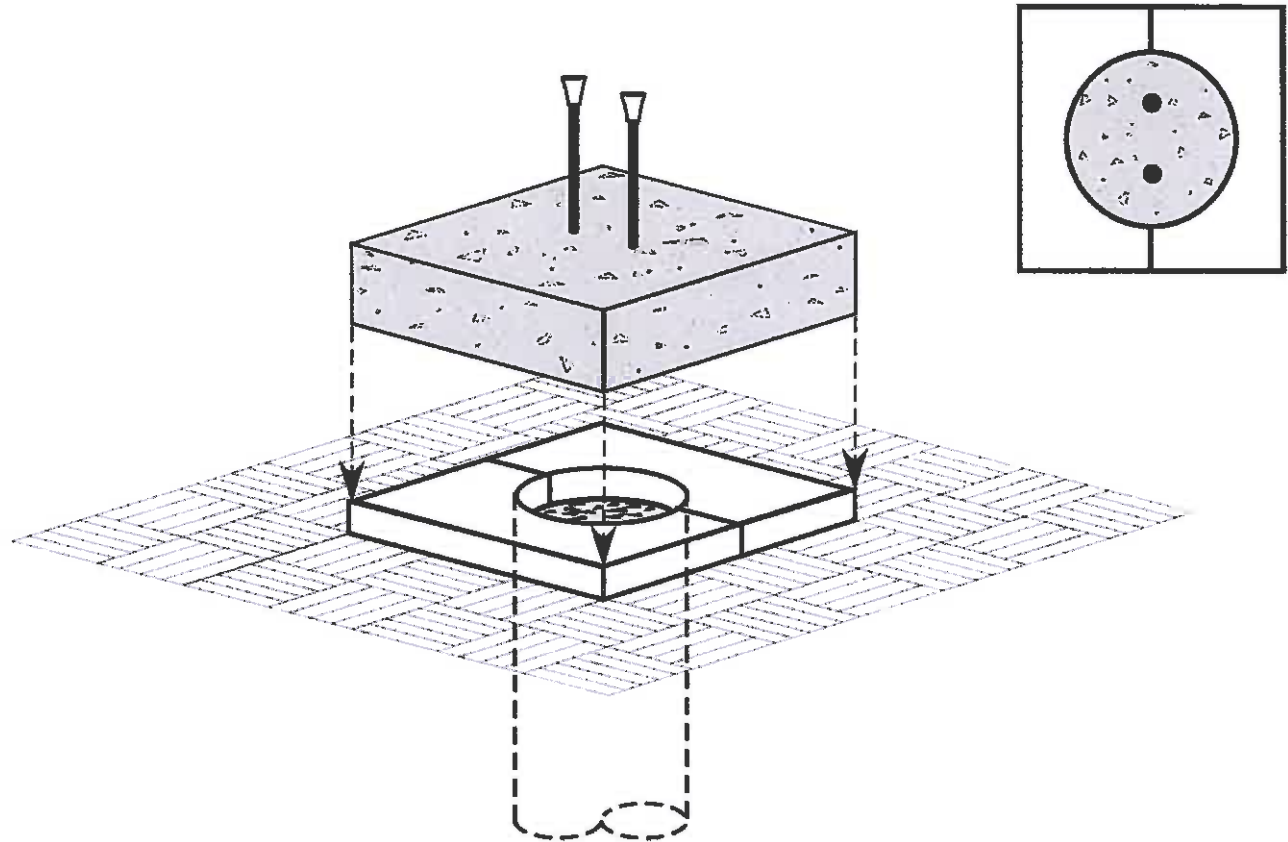
INTERIOR - 275# test, C-flute corrugated paper

STRENGTH – Working load as recommended for slab thicknesses of up to 8 inches

RECOMMENDATIONS

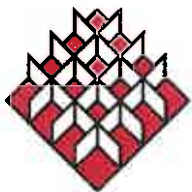
1. Keep SlabVoid dry at all times prior to concrete placement.
2. Prepare grade to an even, smooth surface.
3. Install SureRound PierVoid® at piers where required.
4. Install SlabVoid pieces around perimeter of slab area.
5. Cover remaining area by placing pieces end-to-end and side-by-side.
6. Crosscut pieces with handsaw to fit into non-modular areas.
7. Insert End Caps on open pieces that will be exposed to concrete.
8. Place SureCover Board™ over entire surface to bridge small gaps (2" or less) and to protect against puncture from rebar chars, work boots, etc.
9. Install steel and place concrete.

SureRound PierVoid®



NOTES:

1. Function: Properly creates void space around the upper portion of the drilled pier at its intersection with the slab or under a pier cap
2. Description: Rectangular, pre-manufactured, non-field-cut, sealed carton void form, secured with glue (with or without staples), having a curved, radial, vertically-supported edge adjacent to the drilled pier that conforms to the pier diameter
3. Composition:
 - a. Exterior: Corrugated paper with a moisture-resistant outer surface
 - b. Interior: Corrugated paper arranged in a uniform, cellular configuration
4. Strength: Capable of sustaining specified vertical loads until they become self-supporting, while maintaining full void depth as indicated on the drawings, or as recommended by the manufacturer
5. Accessories: Used in conjunction with a protective cover sheet over the entire top surface to prevent damage to the carton void form, distribute working loads, span small gaps, and provide a suitable surface for foot traffic during carton void form placement
6. Installation: Install in accordance with the manufacturer's recommendations. Protect the carton void forms from moisture and damage prior to concrete placement.
7. Acceptable Product / Manufacturer: SureRound PierVoid® as manufactured by VoidForm Products, Inc. 888-803-VOID (8643)



SureVoid.
Products

SureRound PierVoid® Technical Notes

SureRound PierVoid® contains various corrugated papers of different strength and flutes, bonded together with a white, water-based adhesive. Its structural strength is designed to weaken by the gradual absorption of moisture as the concrete sets. Thus, an adequate void is attained around each pier, which will allow the ground to heave without causing structural damage to the concrete pier cap, pilaster, or slab above. The PierVoid interior is composed of a biodegradable, cellular network and is surrounded by a wax-coated exterior cover. A preformed, sealed hole through the PierVoid accommodates the drilled pier. The hole can be positioned on center or offset depending upon the application.

TYPES AVAILABLE

1. Circular – For cylindrical pier caps where the PierVoid must be placed inside an enlarged shaft.
2. Square / Rectangular – For conventional pier caps, pilasters, and structural slabs.

ADVANTAGES

1. Lightweight
2. Easy to install
3. Waxed exterior for initial water resistance
4. Factory assembled for on-site convenience

DIMENSIONS APPLICABLE TO PROJECT

HEIGHT - approximately 12"

WIDTH - from approximately 18" to 30"

LENGTH - from approximately 18" to 46"

(Note: Oversize dimensions can be achieved by integrating smaller components)

TECHNICAL DATA

COVER –

- a) 275# D/W Corrugated Paper
- b) waxed Exterior

INTERIOR - 275# Test, B or C or DW Corrugated paper

STRENGTH – Working load as recommended for concrete thicknesses of up to 36 inches

RECOMMENDATIONS

1. Keep SureRound PierVoid dry at all times prior to concrete placement.
2. Prepare grade to an even, smooth surface around drilled pier.
3. Place PierVoid pieces around pier.
4. Tape joints or use seam pads to prevent immediate water or concrete silt penetration and to secure positioning of pieces.
5. Place concrete.

SureCover Board™ Technical Notes

SureCover Board™ is placed over corrugated paper void forms to help distribute the concrete working load and to bridge small gaps between the forms in order to prevent concrete migration. It protects the void material from puncture and other damage during concrete placement. Cover sheets with various capabilities can range from economical corrugated papers to more expensive plywood.

TYPES AVAILABLE

- ◆ 275-C Fully Wax-impregnated Corrugated Paper – an economical cover sheet for use in light duty applications: It provides good coverage of the void form seams, which helps prevent concrete intrusion into these areas. Because it provides minimal protection against puncture from point loading, the use of wide base rebar chairs (sand chairs) and/or the use of a hardboard coversheet at the point of loading is recommended. Hardboard may also be required in traffic areas where other sources of damage exist.
- ◆ 1/8" (3.2mm) Hardboard – a smooth, good-grade hardboard that provides moderate protection against puncture and can be used in most slab applications: In conditions of extreme point loading, the use of wide base rebar chairs (sand chairs) or the periodic use of a second layer at the point of loading is recommended.
- ◆ 1/4" (6.4mm) Hardboard – a smooth, good-grade hardboard that provides even greater protection against puncture: Because of its thickness, it is extremely stable and is therefore the most popular in the field. It can handle nearly any imposed load and provides sufficient protection in almost all conditions.
- ◆ () Inch Plywood – to be used in extreme circumstances: It is generally not as cost effective. Various thicknesses can be used to achieve maximum protection and load distribution in all heavy-duty applications.

ADVANTAGES

1. Bridges small gaps between void form pieces
2. Helps distribute working load of concrete
3. Protects void materials from puncture and other damage
4. Provides a uniform work surface
5. May assist in keeping void forms dry prior to concrete placement

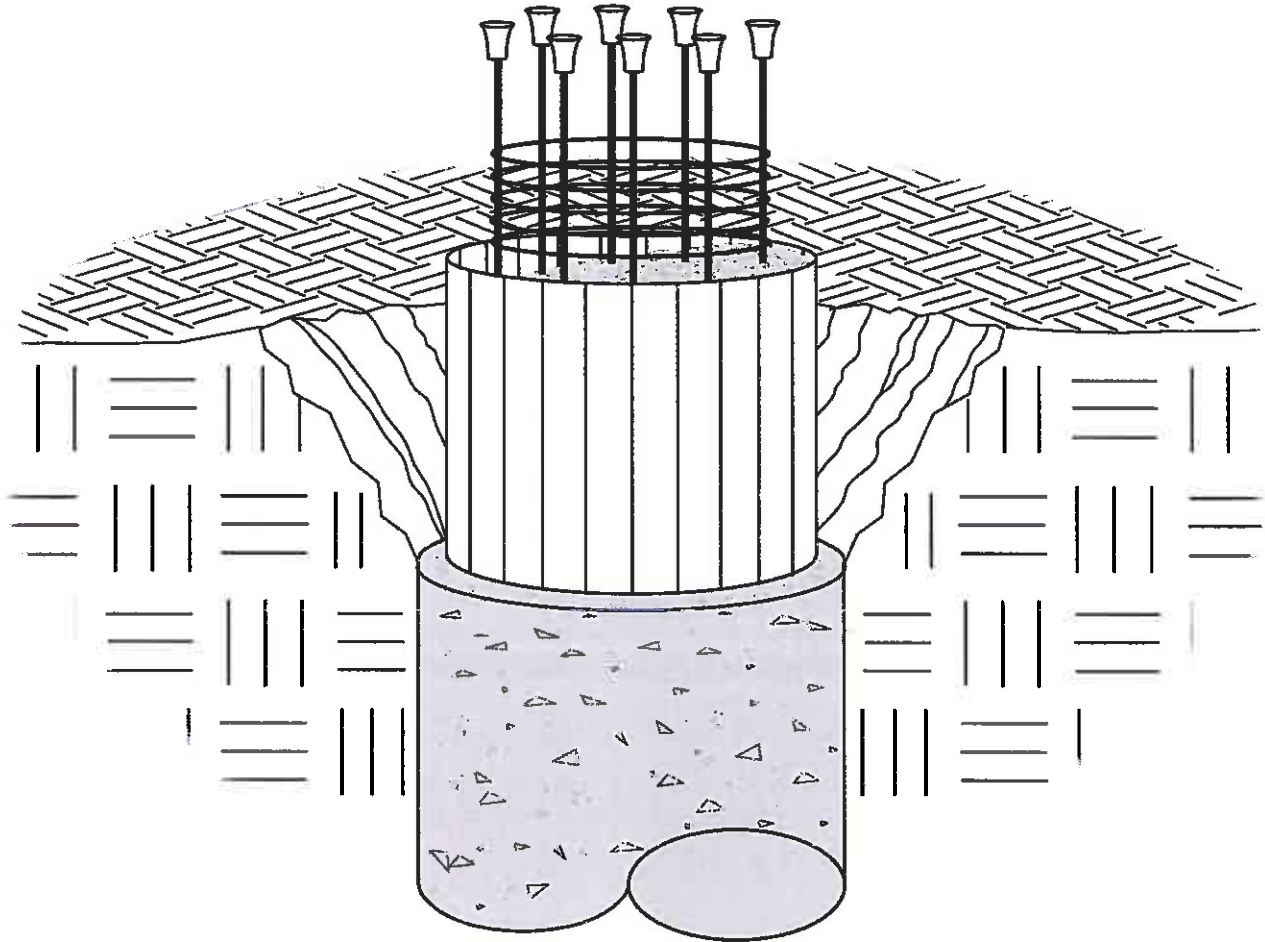
AVAILABLE DIMENSIONS

THICKNESS – materials vary
WIDTH – approximately 48"
LENGTH – approximately 96"

RECOMMENDATIONS

1. Select the type of cover sheet that will provide the best protection for each application in all circumstances or jobsite conditions.
2. Keep materials dry at all times prior to concrete placement.
3. Place cover sheets directly on void forms, positioning each sheet so that the seams do not match the seams between the void forms.
4. Tape, staple, or nail each piece into position as appropriate to prevent them from sliding.
5. Tape all of the seams where desired or necessary.
6. Place vapor barrier over cover sheet if required.
7. Position rebar chairs and install steel.
8. Place concrete.

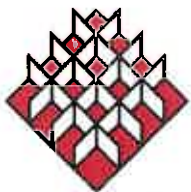
SureTop™



NOTES:

1. Function: Properly forms and contains the upper 2' portion of poured-in-place concrete piers*
2. Description: Stapled, cylindrical form having a diameter that is slightly less than the diameter of the drilled pier as indicated on the drawings
3. Composition: Available in corrugated paper or corrugated polypropylene for all pier diameters
4. Installation: Install in accordance with the manufacturer's recommendations (see SureTops™ Installation Instructions page).
5. Acceptable Product / Manufacturer: SureTop™ as manufactured by VoidForm Products, Inc. 888-803-VOID (8643)

*Not intended to form columns higher than 12" above grade



SureVoid.
Products

Selection and Care of SureVoid® Products

VoidForm Products, Inc. manufactures and sells a variety of products for use in concrete construction. The majority of these products are fabricated from corrugated papers of varying compositions. The following are some general rules that apply to SureVoid® products:

The Right Product for the Job

Allow us to help you find the proper product for your particular application. We are happy to work with our customers to meet each required specification. Please feel free to discuss your requirements with us, and we will recommend the most economical product system for the job.

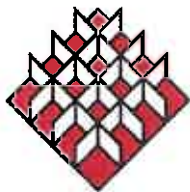
We offer a wide variety of products having different strength capabilities. Carton void form materials designed to support grade beams ranging from 2 feet to 35 feet in height or slabs from 4 inches to 13 feet in thickness are readily available. Corrugated paper is used in the construction of SureVoid products, since various strengths can be achieved at an economical cost, and because a loss of strength occurs when the paper is exposed to environmental moisture. This loss of strength is necessary to be certain that the void space required to accommodate the anticipated soil expansion is maintained.

We utilize many different types of paper with varying degrees of moisture resistance. However, all corrugated paper types will lose strength when they absorb moisture. **Therefore, wet carton void forms must not be used!**

Keeping the Carton Void Forms Dry

It is important that carton void forms are kept dry prior to placing concrete. They must be stored in a manner that will prevent them from becoming wet. The use of a dry storage trailer or watertight container on the jobsite is highly recommended. Carton void forms that inadvertently become wet should be replaced.

Plan the use of the carton void forms to minimize exposure to environmental moisture. Place only as many pieces as can be installed and utilized in a reasonable amount of time during controlled pours. Having a type of covering available or in-place to keep water away from the work area in the event of bad weather is advisable. In addition, runoff from precipitation should not be allowed to collect within the construction zone. Care should be taken to provide adequate drainage around the jobsite. Continue to place only as much material as can be utilized in a timely manner.



SureVoid.
Products

Concerning Material Safety Data Sheet (MSDS) for Corrugated Void Forms

Regulations detailing the requirements for MSDS preparation are codified at 29 Code of Federal Regulations (20CRF) Section 1910.1200. The regulations require the manufacturer of any hazardous material to prepare an MSDS and to supply it to their employees and customers. A hazardous material is defined as one, which possesses any of several specific hazardous characteristics. No corrugated void forms manufactured by VoidForm Products, Inc. exhibit any of these hazardous characteristics; therefore, an MSDS is not required and has not been prepared.

Cautions:

- Corrugated void forms are flammable and will burn if exposed to ignition sources.
- Cutting of void forms may generate dust that is an irritant. Eye protection and protection against inhalation is recommended.

NORTH AMERICA'S #1 VOID FORM SYSTEMS PROTECTING CONCRETE FROM SOIL EXPANSION

1895 W. Dartmouth Ave.
Englewood, CO 80110
(303) 762-0324
(303) 762-9931 (Fax)
(800) 458-5444

6151 Cowley Road
Fort Worth, TX 76119
(817) 429-0888
(817) 429-7333 (Fax)
(888) 803-VOID (8643)

4555 Homestead Road
Houston, TX 77028
(281) 768-7340
(281) 768-7355 (Fax)
(866) 441-0315

5813 Distribution Drive
San Antonio, TX 78218
(210) 441-4110
(210) 441-4105 (Fax)

409 McCampbell Road
Corpus Christi, TX 78408
(361) 299-6911
(888) 448-0887 (Fax)

1832 King Edward Street
Building C, Unit 22
Winnipeg, MB R2R 0N1
(204) 697-9080
(204) 697-9087 (Fax)
(855) 888-VOID (8643)

SureVoid Products, Inc.



SureVoid

1. Product Name

SureVoid® - Corrugated Paper Carton Void Forms for Concrete Construction

2. Manufacturer

SureVoid Products, Inc.
1895 West Dartmouth Avenue
Englewood CO 80110
☎ (800) 458-5444
☎ (303) 762-0324
FAX (303) 762-9931
email: sales@surevoid.com
www.surevoid.com

3. Product Description

BASIC USE

SureVoid® corrugated paper construction products create space between concrete structures and expansive soils, thereby isolating the concrete from the swelling ground. SureVoid provides a temporary support platform for concrete placement until the grade beam or structural slab sets and can support itself across drilled piers, pads, intermittent footings or other concrete work. The SureVoid material, lying under structural concrete construction, gradually absorbs ground moisture and loses its strength after the concrete has set, creating space into which soil can expand without causing damage. With its unique design (see Figure 1), SureVoid can be made to support nearly any concrete wall height and width or any structural slab thickness. SureVoid products are also used in other areas of concrete forming where creating spaces is required. They are frequently utilized in areas with limited access for form removal after concrete placement. In addition, they can be used to displace concrete volume where reduction of weight or cost of the structure is a consideration.

TYPES

The SureVoid product line includes a variety of standard and custom forms that meet a wide range of requirements:

WallVoid® System (see Figure 2):

- A. SureTops™ - Cylindrical corrugated forms that properly contain and shape upper portion of concrete piers
- B. ArcVoid® - Preformed void at pier with radial, sealed vertical edge to conform to pier diameter
- C. WallVoid® - Creates a gap between vertical concrete walls or grade beams and underlying expansive soils
- D. Seam Pads™ - Cover exposed joints to eliminate concrete flow between void forms

SlabVoid® System (see Figure 3):

- A. SureTops™ - Cylindrical corrugated forms that properly contain and shape upper portion of concrete piers
- B. SureRound PierVoid® - Preformed void forms with radial sealed vertical edges that correctly surround the upper portion of drilled piers
- C. SlabVoid® - Creates a gap between concrete structural slabs and underlying expansive soils
- D. SureCover Board™ - Hardboard that protects forms from puncture and other damage during concrete placement

Various Blockout Forms:

- SureLedge™ - Blocks out concrete where brick or tile placement is required
- Commercial SureLedge™ - Blocks out concrete for brick or tile placement in oversized areas
- Vertical Separator Void™ - Separates freshly placed concrete from an existing vertical structure where minimal space prohibits conventional forming methods
- Other custom products - Blockouts, beam pockets, keyways, architectural chamfer ledge, PanVoid™ Forms and PanVoid Caps for waffled structures

COMPOSITION & MATERIALS

SureVoid is available in the most widely used standard sizes and strengths. Custom products are also easily obtained. Most products can be shipped either factory-assembled or in knock-down (K.D.) form for easy onsite assembly. The factory-assembled products are secured with a white water-based food adhesive. The K.D. versions are assembled on the project site or in a warehouse using staples. SureVoid can be made from a variety of corrugated paper types and strengths depending

upon the application or engineer's specification requirements. The interior design provides uniform support to loads encountered during concrete placement. Because the support network spans the entire length and width of each piece, it offers strength for lateral pressures incurred as well as the principal vertical loads. Corrugated paper liners can be added to the interior to help resist deflection. The exterior cover surrounding the support network is coated with a paraffin wax to resist premature moisture penetration. End caps and seam covers are available to seal any exposed ends, which will help prevent the flow of concrete into the void.

LIMITATIONS

SureVoid products should not be exposed to moisture prior to concrete placement. Improper handling, storage, or installation, as well as adverse weather or humidity conditions may affect the proper performance of the product. In addition, loads that exceed the manufacturer's recommendations may cause product damage.

4. Technical Data

Independent tests results of compression strengths for various interior support configurations can be obtained through the manufacturer.

APPLICABLE STANDARDS

Products comply with U.S. Army Corps of Engineers specifications for void forms.

ENVIRONMENTAL CONSIDERATIONS

Most of the paper stocks that are used have a high content of recycled paper. All elements of SureVoid products are not-toxic and are ecologically sound. In addition, most are biodegradable.

5. Installation

PREPARATORY WORK

Literature and videos for onsite assembly and installation are available from the manufacturer. SureVoid products are lightweight and easy to install: most blockout products have a wood backing or nailing flanges, and can be nailed, screwed, or clamped into place. Because all products are made from corrugated paper, they can be easily cut to fit with an ordinary handsaw. Installation procedures should not deviate from manufacturer's

SureVoid Products, Inc.

recommendations, basic installation guidelines are:

- Products must be kept dry at all times prior to concrete placement.
- For WallVoid and SlabVoid products, prepare ground surface on an even plane.
- Use seam covers and end caps to prevent absorption of water and the flow of concrete into open unprotected areas.
- For SlabVoid, protective hardboard overlay is recommended to prevent puncture from vibrator stingers, work boots, or rebar chairs.
- For Commercial SureLedge™, a wood matrix is used for ease of installation and added supporting strength.
- For SureLedge™ used with aluminum form systems, LedgeLock™ brackets are available to hold the pieces in place.
- Specific recommendations or details for installation on a particular project can be obtained from the manufacturer.

6. Availability & Cost

AVAILABILITY

Products are available through established regional distributorships throughout the U.S. or through direct shipment. Products can be shipped on an international level. Contact the manufacturer for details.

COST

Due to the variety of applications and required strengths, products are quoted on a job-by-job basis. However, some standard product pricing is available from the manufacturer or an authorized distributor.

7. Warranty

SureVoid Products, Inc., guarantees its products are free from defects in workmanship. However, no warranty is expressed or implied on product performance due to variations in working conditions and individual installation procedures. There is no warranty on merchantability and there is no warranty on fitness for a particular purpose.

8. Maintenance

Reuse of ledge materials and various blockouts is possible when wrapped in plastic prior to installation. Stay in place void forms that have been wrapped in

plastic as protection from the elements should be cut along the sides after form removal. This will allow ground moisture to penetrate and weaken the void material.

9. Technical Service

Instructions for use can be obtained through the manufacturer or an authorized representative.

10. Filing Systems

- Architects' First Source for Products
- Additional product information available from the manufacturer.

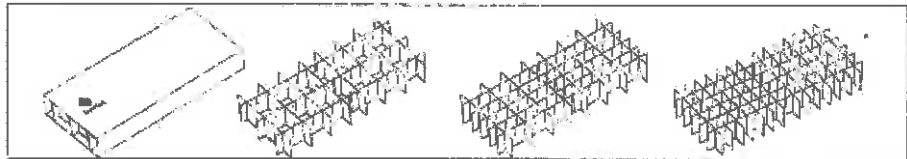


Figure 1 SlabVoid interior design allows dynamic strength capabilities

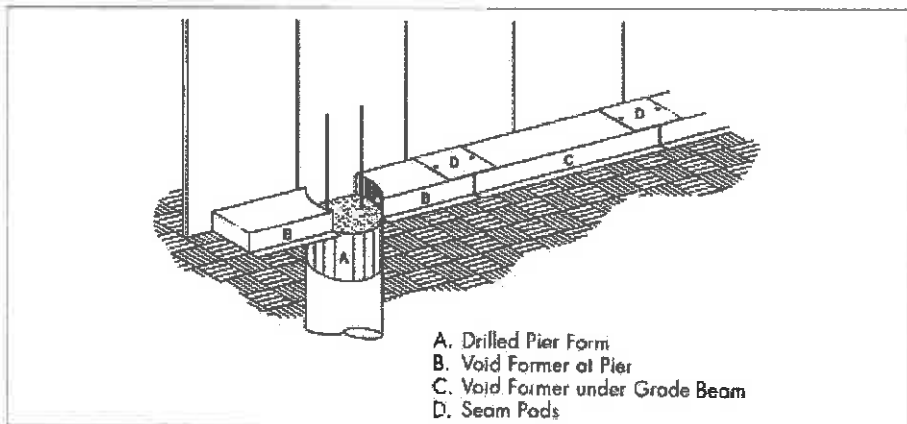


Figure 2 WallVoid System

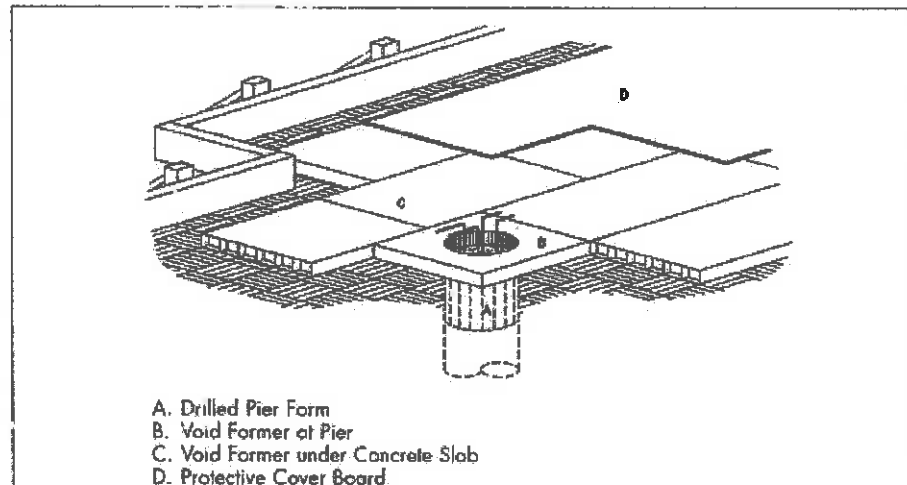
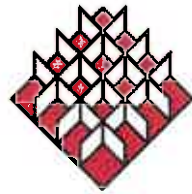


Figure 3 SlabVoid System





SureVoid. Products

LEED Certification Submittal Information for Corrugated Paper Carton Void Forms

What is LEED certification?

"In the United States and in a number of other countries around the world, LEED certification is the recognized standard for measuring building sustainability. Achieving LEED certification is the best way for you to demonstrate that your building project is truly "green."

The LEED green building rating system -- developed and administered by the U.S. Green Building Council, a Washington D.C.-based, nonprofit coalition of building industry leaders -- is designed to promote design and construction practices that increase profitability while reducing the negative environmental impacts of buildings and improving occupant health and well-being." (taken from the Natural Resources Defense Council website: www.nrdc.org/buildinggreen/leed.asp)

Pertinent Information for Corrugated Paper Carton Void Form Products:

Manufacturer:	VoidForm Products, Inc. 6151 Cowley Road Fort Worth, TX 76119 888-803-VOID (8643)
Corrugators:	Packaging Corporation of America 2510 West Miller Road Garland, TX 75041
Primary Paper Mill:	Packaging Corporation of America 6750 Highway 57 Counce, TN 38326
Harvest Location:	Various forests in Tennessee, Mississippi, and Alabama
Recycled Content:	Post-Consumer -- approx. 36.8% OCC (old corrugated containerboard) Post-Industrial -- approx. 9.2% DLK (double-lined kraft / corrugator waste) <hr style="width: 10%; margin: 0 auto;"/> 46.0% Total
FSC Wood Certification #:	Various
Certified Wood:	54% virgin fiber supplied from wood chips -- certified wood percentage is unknown