



DecoForm
Shapes & Materials

GRG GRC FRP CASSEL ORNAMENTAL





UNION PLANTERS NATIONAL BANK
Memphis, TN

DESIGN: HNEDAK BOBO GROUP
INSTALLATION: LUSK ACOUSTICAL & SUPPLY CO., INC.



WORTHINGTON MALL
Worthington, OH

DESIGN: COMMUNICATIONS ARTS INC.
INSTALLATION: THE GUTKNECHT CONSTRUCTION COMPANY, INC.



LIONS, FRANKLIN PARK MALL
Toledo, OH

DESIGN: CLDA, INC.
INSTALLATION: OCP CONTRACTORS, INC.



JOHNSON CITY MEDICAL CENTER HOSPITAL
Johnson City, TN

DESIGN: THOMAS WEEMS, ARCHITECT
INSTALLATION: WHITT COMPANY, INC



NORTH HILLS REGIONAL BANKING CENTER
Pittsburgh, PA

DESIGN: JSA ARCHITECTS / ENGINEERS
INSTALLATION: LASO CONTRACTORS, INC.



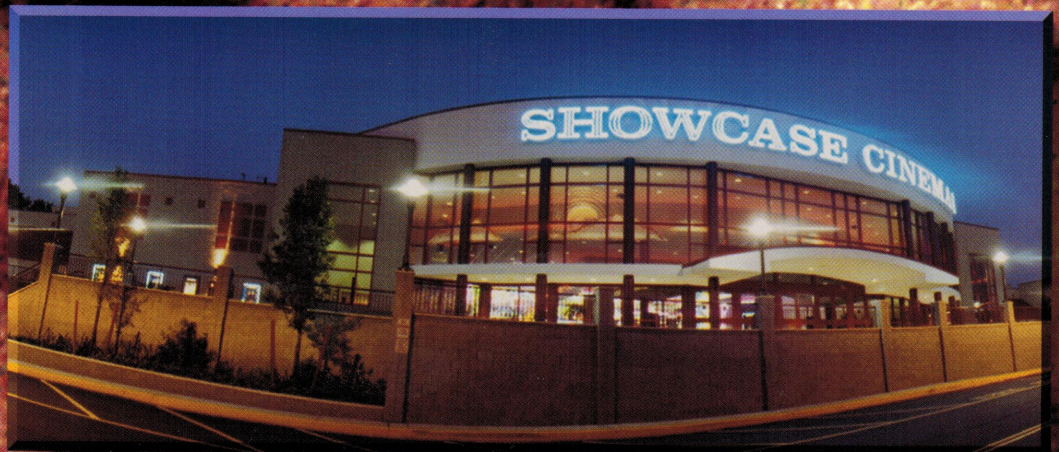
SQUARE ONE MALL
Saugus, MA

DESIGN: SUMNER, SCHEIN, ARCHITECTS & ENGINEERS
INCORPORATED
INSTALLATION: T.J. MCCARTNEY, INC.



FRONTIER INSURANCE
Rockhill, NY

DESIGN: LIEBMAN - HURWITZ AND ASSOCIATES
INSTALLATION: DAVIS ACOUSTICAL CORP.



SHOWCASE CINEMAS
East Windsor, CT

DESIGN: BEACON ARCHITECTURAL ASSOCIATES
INSTALLATION: ADVANCED INTERIORS, INC.



CN TOWER - 360 REVOLVING RESTAURANT
Toronto, ON

DESIGN: BALDWIN & FRANKLIN, ARCHITECTS
INSTALLATION: DBN DRYWALL & ACOUSTICS LTD.



HUDSON BELK, CRABTREE VALLEY MALL
Raleigh, NC

DESIGN: WILLIAMS, HOOD, WOOD, SMITH, ABERNATHY ASSOC.
INSTALLATION: PRECISION WALLS, INC.



MARY RUTAN HOSPITAL
Bellefontaine, OH

DESIGN: DESIGN GROUP, INC.
INSTALLATION: CLEVELAND CONSTRUCTION, INC.



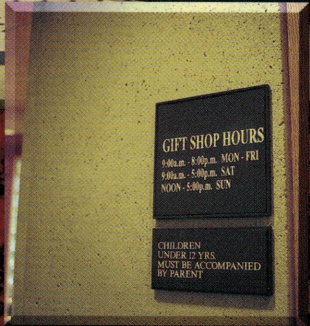
MOUNTAIN VIEW ELEMENTARY SCHOOL
Johnson City, TN

DESIGN: KEN ROSS ARCHITECTS, INC.
INSTALLATION: FRANKLIN DRY WALL, INC.



PREMIER LIQUOR
Kenmore, NY

DESIGN: MUSSACHIO ARCHITECTS P.C.
INSTALLATION: GYPSUM SYSTEMS, INC.



JOHNSON CITY MEDICAL CENTER HOSPITAL
Johnson City, TN

DESIGN: THOMAS WEEMS, ARCHITECT
INSTALLATION: WHITT COMPANY, INC.



Photo: Robert Benson Photography

FOXWOODS HOTEL, CASINO & ENTERTAINMENT COMPLEX
Mashantucket, CT

DESIGN: NEW ENGLAND DESIGN, INC.
INSTALLATION: JESMAC, INC.



Photo: Cam-Tech Photography

JOSLINS, SOUTHGLENN MALL
Denver, CO

DESIGN: CLDA, INC
INSTALLATION: M & D CONSTRUCTION, INC.



BELK - BECK, OAK HOLLOW MALL
High Point, NC

DESIGN: ARCHITECTURE +
INSTALLATION: SHIELDS, INC

Photo: Robert E. Mikrut



NATICK MALL
Natick, MA

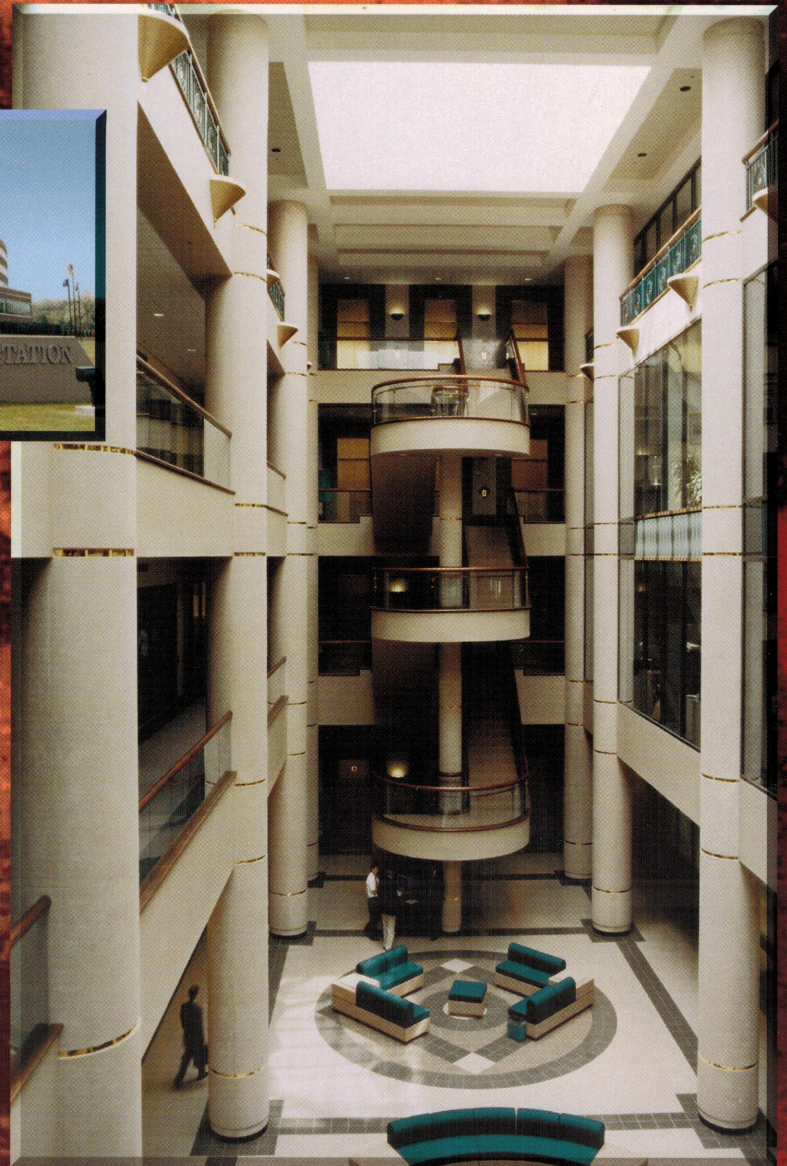
DESIGN: ARROWSTREET
INSTALLATION: MANGANARO CORPORATION, NEW ENGLAND



MAISON BLANCHE, OAKWOOD MALL
New Orleans, LA

DESIGN: CLDA, INC.
INSTALLATION: KING & CO., INC.

Photo: Cam-Tech Photography



DURHAM HEIGHTS PLAZA
Whitby, ON

DESIGN: PETROFF PARTNERSHIP ARCHITECTS
INSTALLATION: SKEATES CONTRACTING INC.

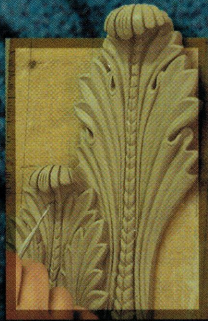
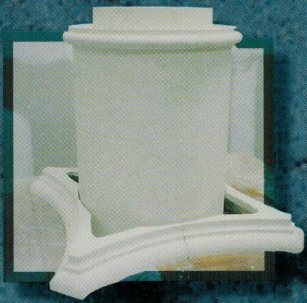
DEPARTMENT OF TRANSPORTATION
Newington, CT

DESIGN: MAGUIRE GROUP, INC.
INSTALLATION: SATURN CONSTRUCTION CO., INC.

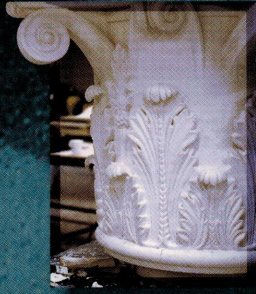


FIDELITY INVESTMENTS OFFICE BUILDING
Covington, KY

DESIGN: KZF INCORPORATED
INSTALLATION: SPECTRUM INTERIORS INC.



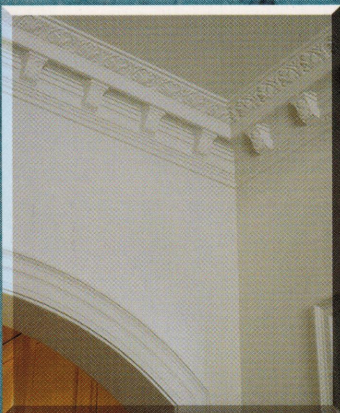
OLD-WORLD CRAFTSMANSHIP IS ALIVE AND WELL AT DECOFORM. SHOWN ARE A FEW OF THE STEPS REQUIRED FOR THE MANUFACTURE OF AN ORIGINAL



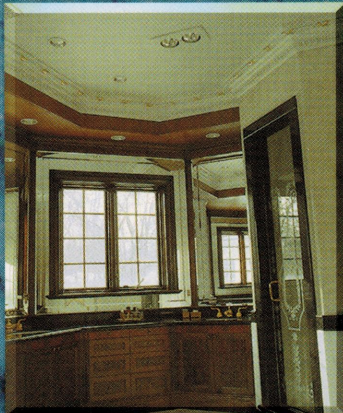
CUSTOM, ORNATE COMPONENTS CAN BE MANUFACTURED TO SPEC., WITH THE AID OF DRAWINGS OR PHOTOGRAPHS. FOR STANDARD, INVENTORIED COMPONENTS REFER TO OTHER DECOFORM BROCHURES.



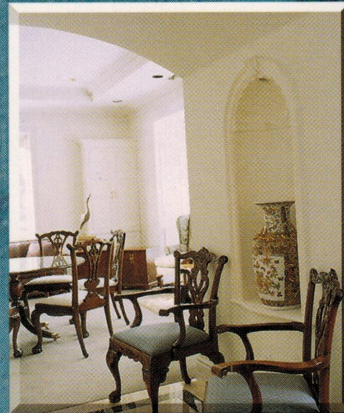
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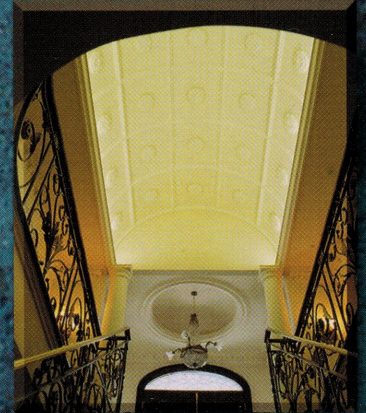
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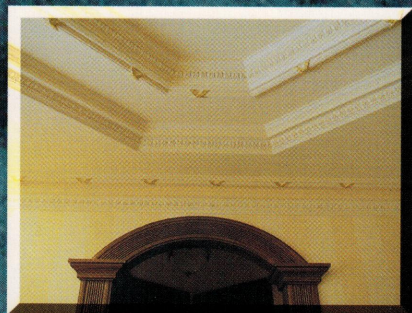
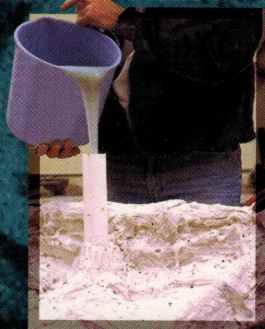
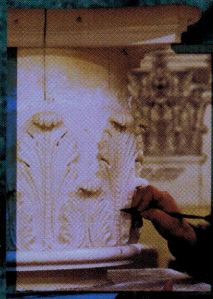


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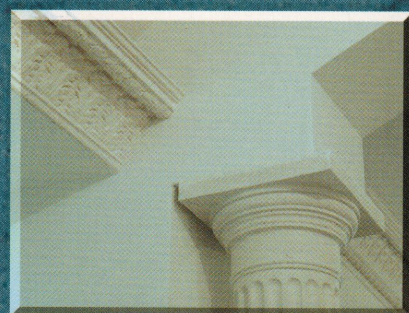
CORINTHIAN COLUMN CAPITAL. ORNATE COMPONENTS MAY BE MANUFACTURED UTILIZING ANY OF THE MATERIALS OFFERED BY DECOFORM.



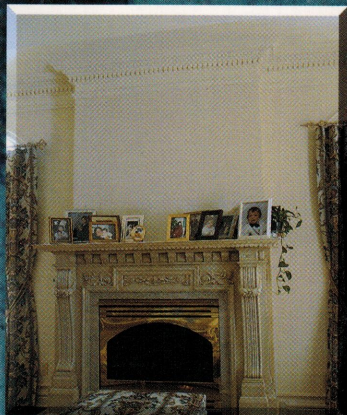
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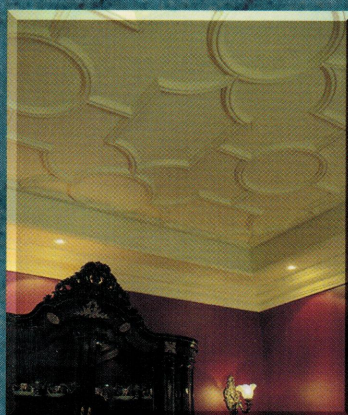
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10



11

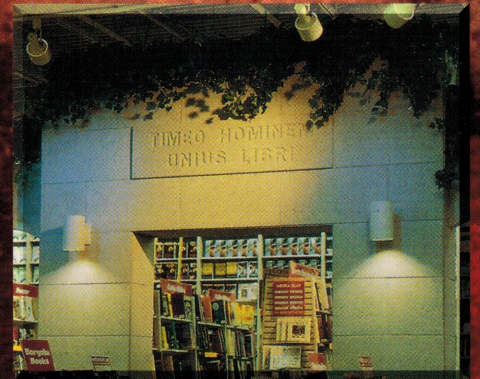


12



HGTV - CINETEL PRODUCTIONS
Knoxville, TN

DESIGN: MICHAEL BRADY INC.
INSTALLATION: RICHARDSON TURNER CONSTRUCTION CO., INC.



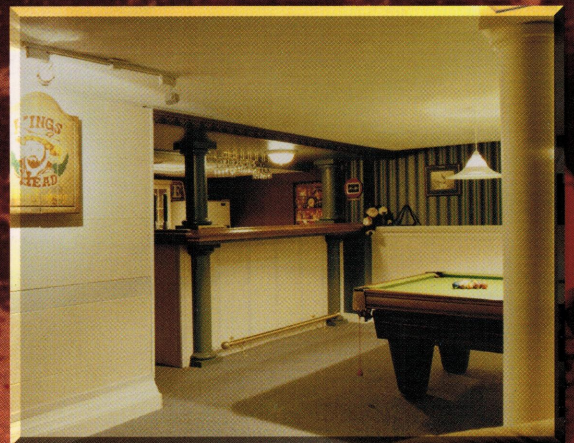
MEDIA PLAY - EASTLAND
Columbus, OH

DESIGN: MUSICLAND GROUP INC.
INSTALLATION: BLAIR DESIGN & CONSTRUCTION CO., INC.



BOARD OF TRADE - AIRPORT CLUB
Rexdale, ON

DESIGN: INTERNATIONAL DESIGN NETWORK CORP.
INSTALLATION: GRANOLITE COMPANY LIMITED



GEORGE'S RAILWAY PUB
Georgetown, ON

DESIGN: JEFFREY SANDIFER
INSTALLATION: JEFFREY SANDIFER



Photo: Dennis Marsico

WASHINGTON & JEFFERSON COLLEGE
Washington, PA

DESIGN: MacLACHLAN, CORNELIUS & FILONI, ARCHITECTS
INSTALLATION: J. J. MORRIS & SONS, INC.



LIBRARY, UNIVERSITY OF MEMPHIS
Memphis, TN

DESIGN: JMGR INC.
INSTALLATION: ACOUSTICS AND SPECIALITIES, INC.



COLONIAL HILLS BAPTIST CHURCH
Southaven, MS

DESIGN: TAP THE ARCHITECTURAL PARTNERSHIP
INSTALLATION: RANGER CONSTRUCTION COMPANY



COMMERCIAL BANK
Halls, TN

DESIGN: MICHAEL BRADY INC.
INSTALLATION: LEON WILLIAMS GENERAL CONTRACTOR



SEARS, NATICK MALL
Natick, MA

DESIGN: NWS ARCHITECTS INCORPORATED
INSTALLATION: DRYWALL SYSTEMS INC.



FOXWOODS HOTEL, CASINO & ENTERTAINMENT COMPLEX
Mashantucket, CT

DESIGN: NEW ENGLAND DESIGN, INC.
INSTALLATION: JESMAC, INC.



GAYFERS, TURTLE CREEK MALL
Hattiesburg, MS

DESIGN: CLDA, INC.
INSTALLATION: ALABAMA SPECIALTIES, INC.

Photo: Cam-Tech Photography



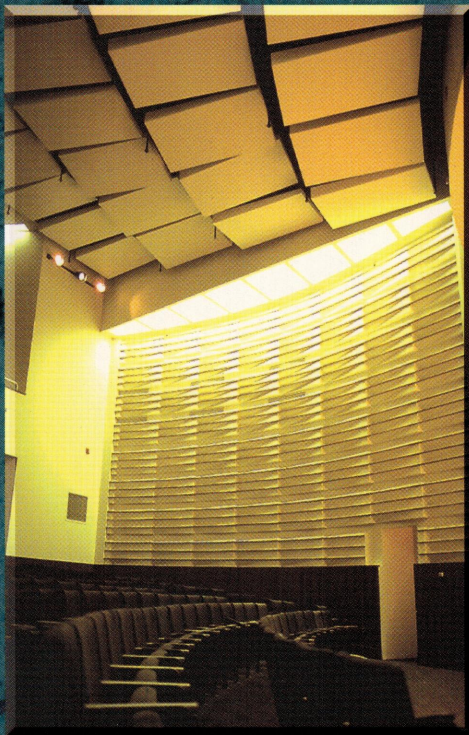
OAK HOLLOW MALL
High Point, NC
DESIGN: ARCHITECTURE +
INSTALLATION: SHIELDS, INC.



GRAND VICTORIA CASINO
Elgin, IL
DESIGN: LUCIEN LAGRANGE AND ASSOCIATES, LTD.
INSTALLATION: R. G. CONSTRUCTION SERVICES INC.



SHOWCASE CINEMAS
East Hartford, CT
DESIGN: WILES & ASSOCIATES, ARCHITECTS
INSTALLATION: NETWORK INTERIORS, INC.



ARGONNE NATIONAL LABORATORY
Argonne, IL
DESIGN: KNIGHT ARCHITECTS ENGINEERS
PLANNERS, INC.
INSTALLATION: THORNE ASSOCIATES, INC.



JONES, DAY, REAVIS & POGUE
Chicago, IL
DESIGN: DeSTEFANO + PARTNERS
INSTALLATION: ANNING - JOHNSON COMPANY

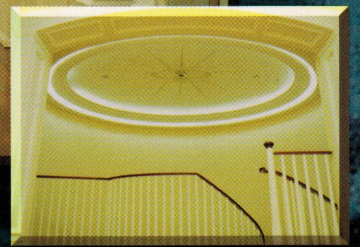


Photo: Cam-Tech Photography

OHIO STATEHOUSE
Columbus, OH
DESIGN: SCHOOLEY CALDWELL
ASSOCIATES
INSTALLATION: SOUTH TEXAS
DRYWALL



Photo: Christopher Barone ©

COMMUNITY ARTS CENTER
Williamsport, PA
DESIGN: HAYES LARGE ARCHITECTS
INSTALLATION: D & M CONTRACTORS INC.

A GUIDE TO MATERIAL SELECTION

DECOFORM MANUFACTURES QUALITY, MOLDED, INTERIOR AND EXTERIOR ARCHITECTURAL COMPONENTS. PROJECTS REQUIRING REPETITIVE OR MODULAR SHAPES ARE PRIME CANDIDATES. **DECOFORM** PRODUCTS ARE USED PRIMARILY FOR:

COLUMN COVERS	CAPITALS AND BASES
LIGHT COVES	LIGHT REFLECTORS
CEILING COFFERS	CORNICES
DOMES	VAULTS
PEDIMENTS	MOLDINGS
BULKHEADS	PILASTERS
NICHES	CEILING CENTERS
ROSETTES	FIREPLACE SURROUNDS
ENRICHMENTS	SIGNAGE
WALL PANELS	PLAQUES

DRAMATIC SAVINGS IN SITE LABOR CAN OFTEN BE REALIZED AND SUPERSTRUCTURE REQUIREMENTS REDUCED AS THE RESULT OF THE USE OF PRE-MOLDED SHAPES.

DECOFORM OFFERS PRODUCTS IN FOUR DIFFERENT MATERIALS.

GRG (GLASSFIBER REINFORCED GYPSUM) (SPEC. SECTION 09540)

GRC (GLASSFIBER REINFORCED CEMENT) (SPEC. SECTION 03500)

FRP (FIBERGLASS REINFORCED POLYESTER) (SPEC. SECTION 06600)

CASSEL™ (MOLDED STONE) (SPEC. SECTION 06200).

SELECTION CRITERIA

(1) - IS THE PRODUCT TO BE USED INSIDE OR OUTSIDE?

GRG & CASSEL™ ARE FOR INTERIOR USE ONLY.

GRC & FRP ARE FOR USE INSIDE OR OUTSIDE.

(2) - IS THE PRODUCT TO BE SITE PAINTED OR IS IT TO BE PRE-FINISHED?

GRG & GRC REQUIRE SITE FINISHING (USUALLY PRIME & FINISH PAINT).

FRP CAN BE SUPPLIED PRE-FINISHED OR PAINT READY (DEPENDING ON BUDGET AND DESIGN CRITERIA).

CASSEL™ IS PRE-FINISHED AND SEALED.

(3) - BUDGET CONSIDERATIONS

GRG IS THE LEAST EXPENSIVE PRODUCT FOLLOWED BY GRC, FRP AND CASSEL™ RESPECTIVELY (ASSUMING THE SAME SHAPE AND SCOPE).

(4) - FIRE CODE CONSIDERATION

ALL FOUR **DECOFORM** PRODUCTS/MATERIALS ARE AVAILABLE TO SUIT A CLASS 1 DESIGNATION, HOWEVER, FOR SOME EXTERIOR APPLICATIONS WHERE THICKER ($\pm 3/8"$) MATERIAL THICKNESS IS REQUIRED, A CLASS 2 VERSION OF FRP IS AVAILABLE (SERIES #200).

DECOFORM OFFERS COMPLETE SPECIFICATION AND DESIGN ASSISTANCE.

DECOFORM MANUFACTURES PRE-MOLDED COMPONENTS IN SEVERAL DIFFERENT MATERIALS.



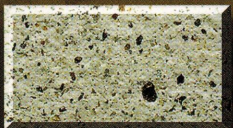
SHOWN ARE THE STANDARD CASSEL™ COLORS.



BALMORAL GREEN



KENT BLUE



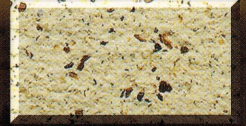
COLCHESTER GREY



PEMBROKE IVORY



WINDSOR BUFF



CARDIFF SAND



ASHBY ROSE



TIVERTON PINK



THIS 48" X 48" X 4" ORIGINAL WAS DESIGNED AS A TABLE TOP & WALL PLAQUE.

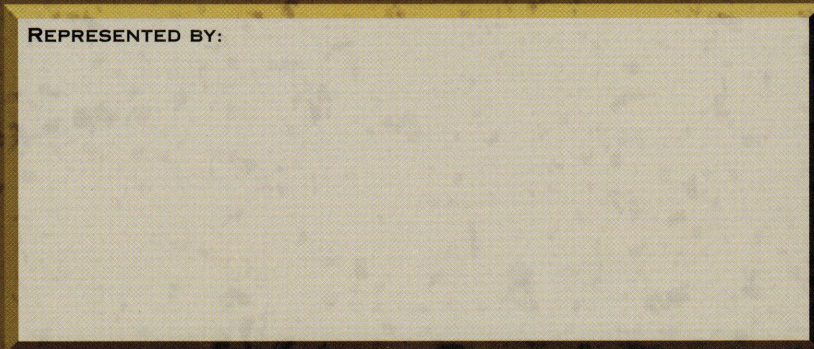
CASSEL™ MUST NOT BE USED AS A FLOORING MATERIAL AND ITS USE IS STRICTLY FOR INTERIOR APPLICATIONS.



PHOTOGRAPHIC REPRODUCTION MAY NOT EXACTLY REPRESENT THE TRUE PRODUCT COLOR.

FOR OTHER DECOFORM PRODUCT LITERATURE CONTACT THE FACTORY OR YOUR LOCAL AGENT.

REPRESENTED BY:



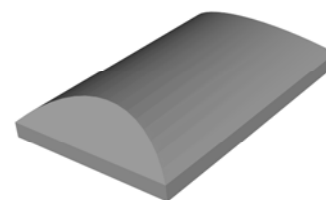
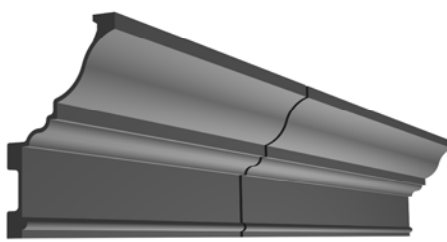
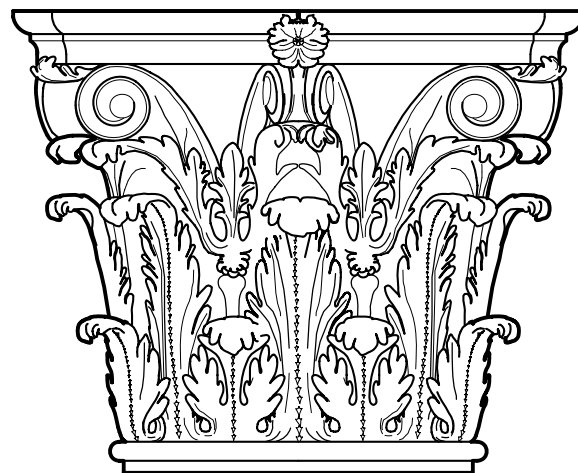
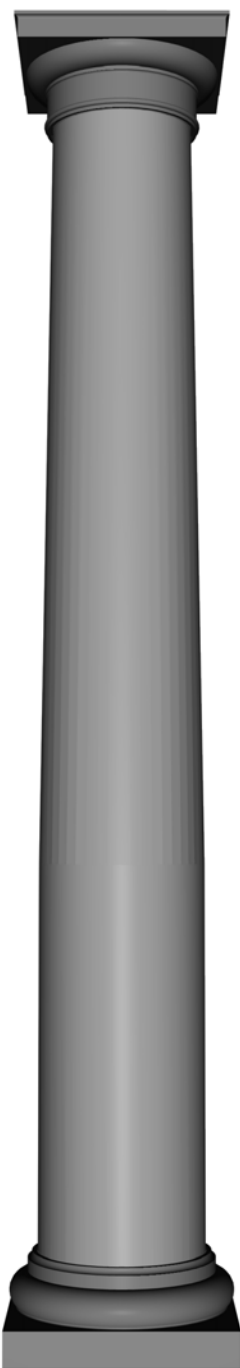
DECOFORM CORP. 270 REXDALE BOULEVARD, ETOBICOKE, ONTARIO, CANADA M9W 1R2
TEL: (416) 745-4970 FAX: (416) 745-6636

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Decoform

The Book of Molded, Architectural Products
GRG, GRC, FRP



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www.decoform.com

DecoForm Inc.

General Information

The parts represented in this catalog reflect only some of the tooling maintained by DecoForm to offer competitive prices and faster delivery.

A unique part number identifies each item. This number should be used when requesting more details than provided in this catalog. This information is available by phone, fax or email.

Only tooling is kept in stock (not parts). DecoForm manufactures parts only after receiving a purchase order. Confirming your delivery requirement as early as possible is therefore important.

DecoForm can create virtually any shape or size. If this catalog does not offer profiles to meet your needs, give us the details and we will be pleased to submit a quotation.

DecoForm manufactures a wide range of molded, architectural components made of materials including GRG, GRC and FRP. We also offer the pre-finished product SandScape™ for exterior or interior applications. Specifications for all our products are available from DecoForm web site and DecoForm representatives or by contacting DecoForm directly.

Decoform

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Phone: (416) 745 - 4970
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www.decoform.com

Email: sales@decoform.com

DecoForm Inc.

Index

SECTION 1

1-A.1 & 1-A.2
1-B.1 TO 1-B.4	.....
1-C	.....
1-D	.....
1-E	.....
1-F.1 & 1-F.2	.....

SECTION 2

2-A	.....
2-B.1 TO 2-B.7	.....
2-C.1 TO 2-C.4	.....

SECTION 3

3-A	.....
3-B	.....

SECTION 4

4-A	.....
4-B.1 TO 4-B.3	.....

SECTION 5

5-A TO 5-A.2	.....
5-B.1 & 5-B.2	.....

SECTION 6

6-A & 6-A.1	.....
6-B	.....

SECTION 7

7-A	.....
7-B	.....

APPENDIX A

.....

COLUMN COVERS

Classical Column Proportions
Typical Installation
Plain Column Covers
Tapered Column Covers
Octagonal Column Covers
Fluted Column Covers

CAPITALS AND BASES

Assembly Options
Capitals & Bases
Corinthian, Temple of the Winds, Scamozzi and Ionic Capitals

COVES (REFLECTORS)

Typical Installation
GRG Coves

LIGHT COVES

Typical Installation
Light Coves

MOLDINGS

Typical Installation
Moldings

DOMES

Domes and Trim Options
Domes

DIFFUSERS

Pyramid Diffusers
Dome Diffusers

A Guide to Material Selection

Classical Column Proportions

In addition to other styles, DecoForm supplies Column Covers which conform to five ornamental styles: **Tuscan, Doric, Ionic, Scamozzi** and **Corinthian**.

Within each order, the dimensions of the capital, column height and base, are proportional to shaft diameter at the base.

Classical authorities cite nominal variations in classical proportions. The following chart can be used for guidance purposes only to establish overall column heights at varying column diameters.

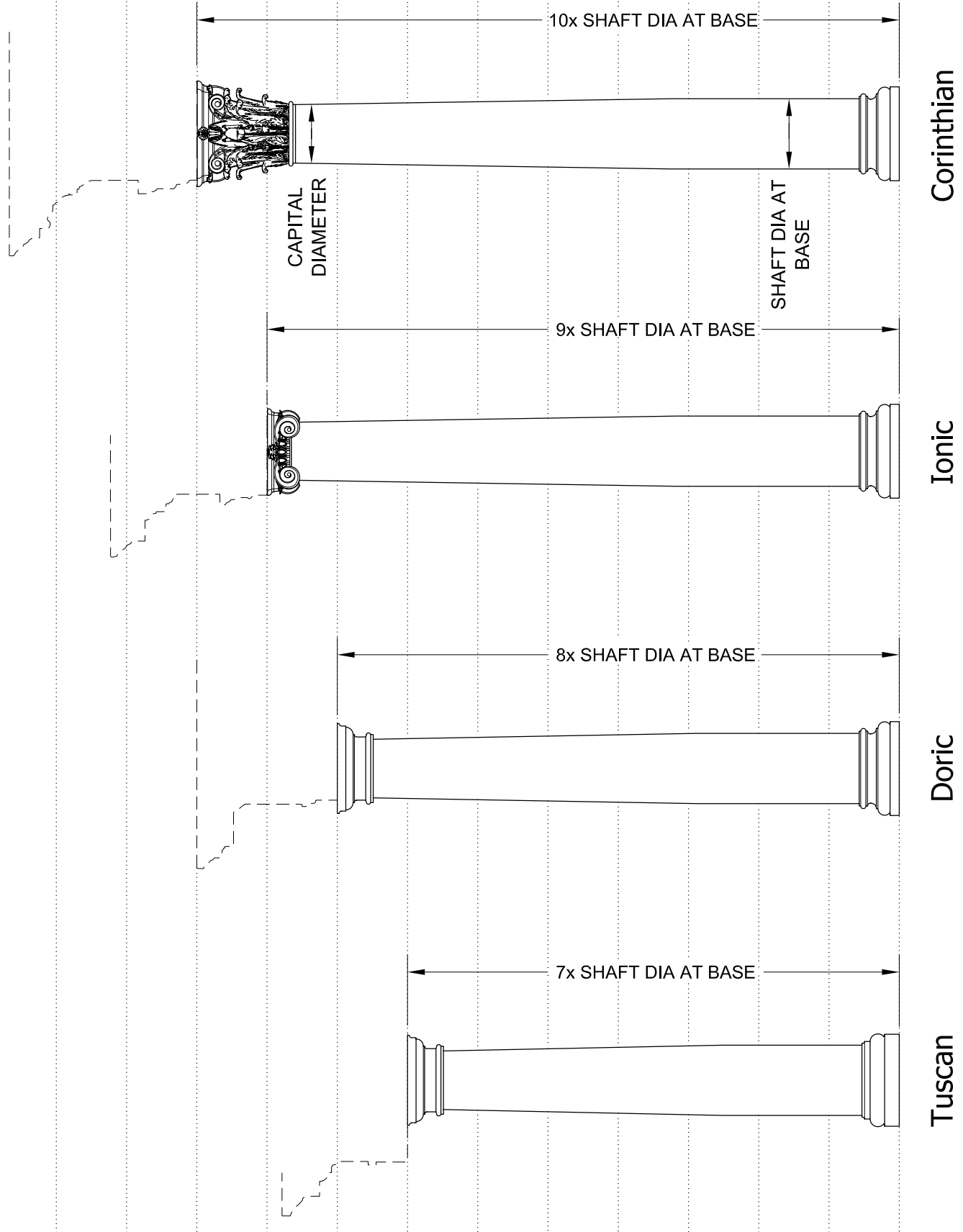
COLUMN BASE DIAMETER	CAPITAL DIAMETER	OVERALL COLUMN HEIGHT (FT.)			
		TUSCAN	DORIC	IONIC	CORINTHIAN
INCHES	INCHES (NOM.)				
12	10	7	8	9	10
14	12	8.17	9.34	10.5	11.66
16	14	9.33	10.66	12	13.34
18	15	10.5	12	13.5	15
20	17	11.67	13.34	15	16.67
22	19	12.83	14.66	16.5	18.32
24	21	14	16	18	20

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**Classical Column
Proportions**



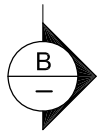
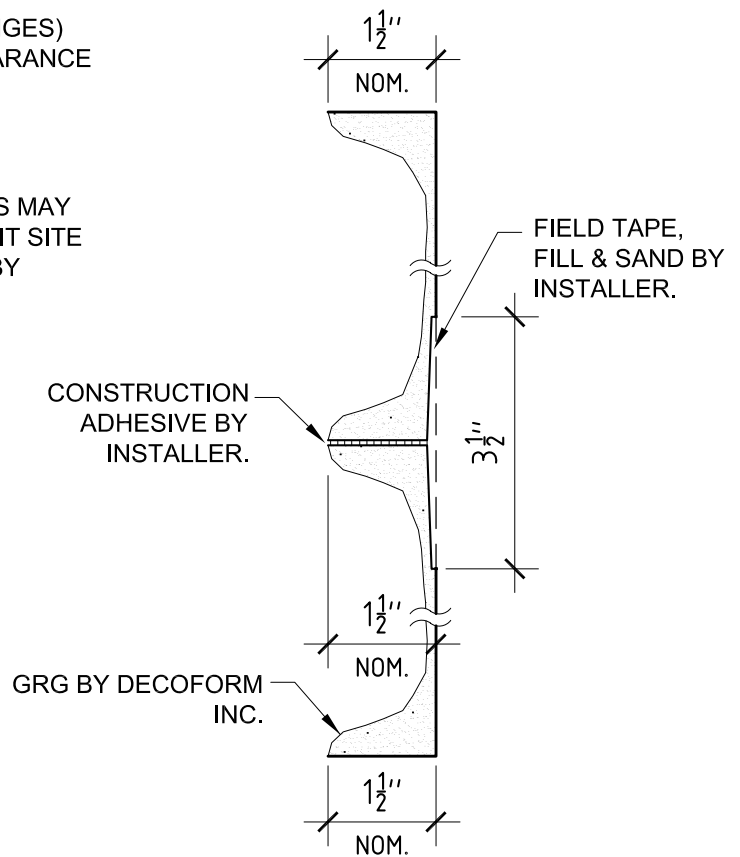
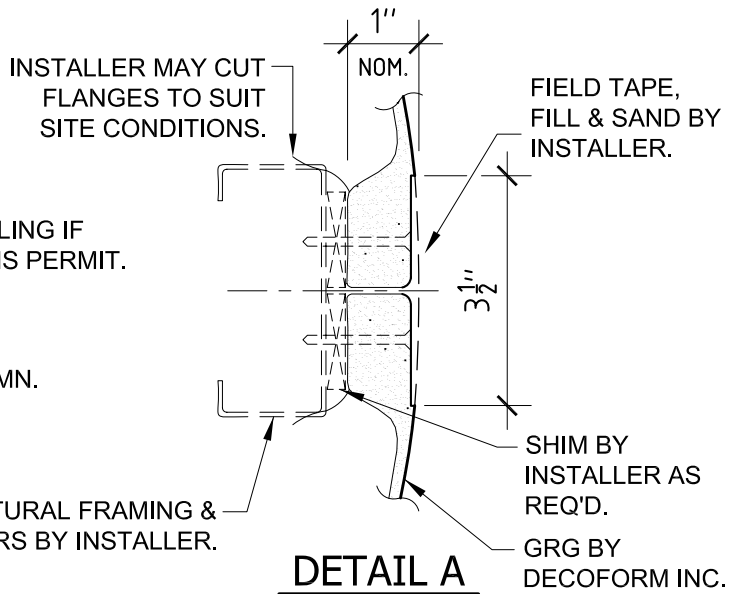
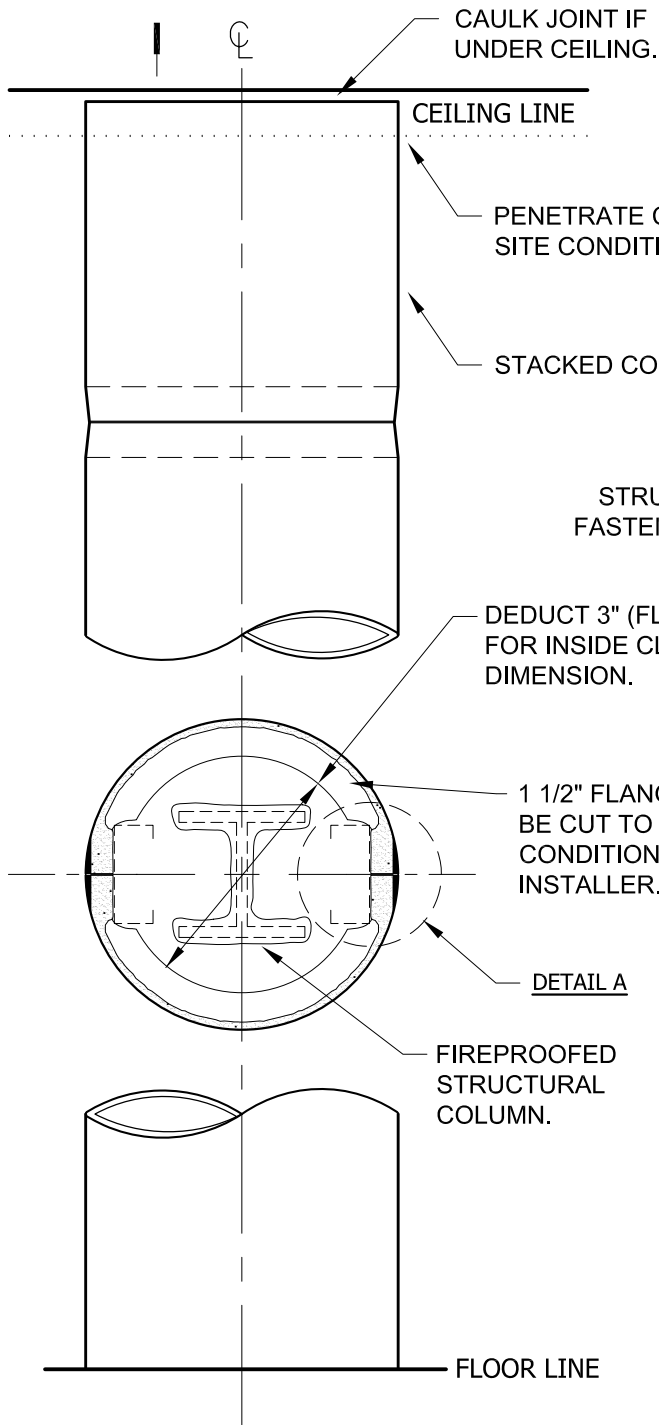
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Classical Column Proportions



DETAIL B

NOTES:

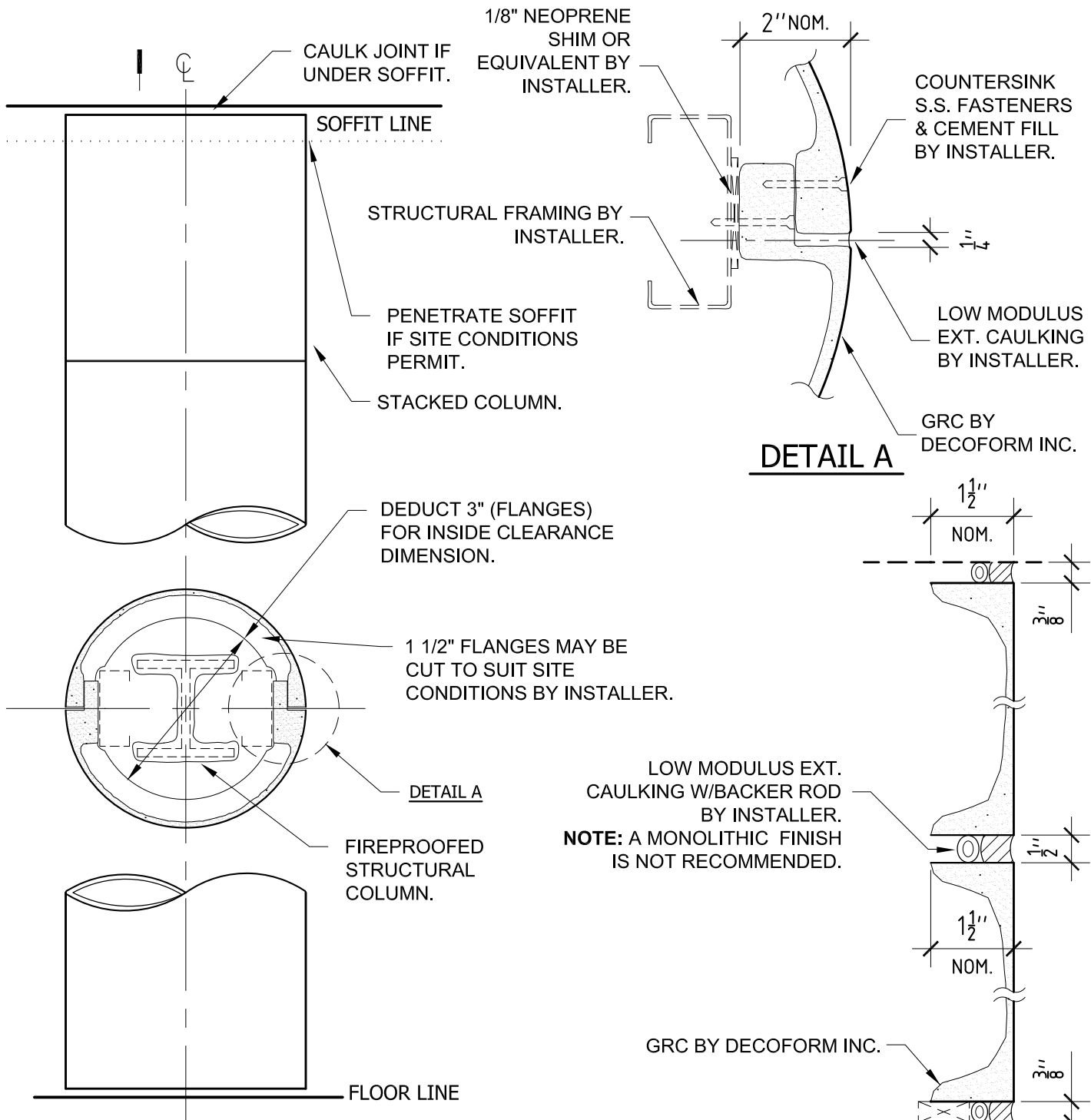
- (1) GRG IS FOR INTERIOR USE ONLY.
- (2) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (3) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, TAPE & JOINT COMPOUND TO BE SUPPLIED BY OTHERS.
- (4) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.

N.T.S.

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Typical GRG Installation
 Column Covers



NOTES:

- (1) GRC IS PRIMARILY FOR EXTERIOR USE.
- (2) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (3) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS & SHIMS TO BE SUPPLIED BY OTHERS.
- (4) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.

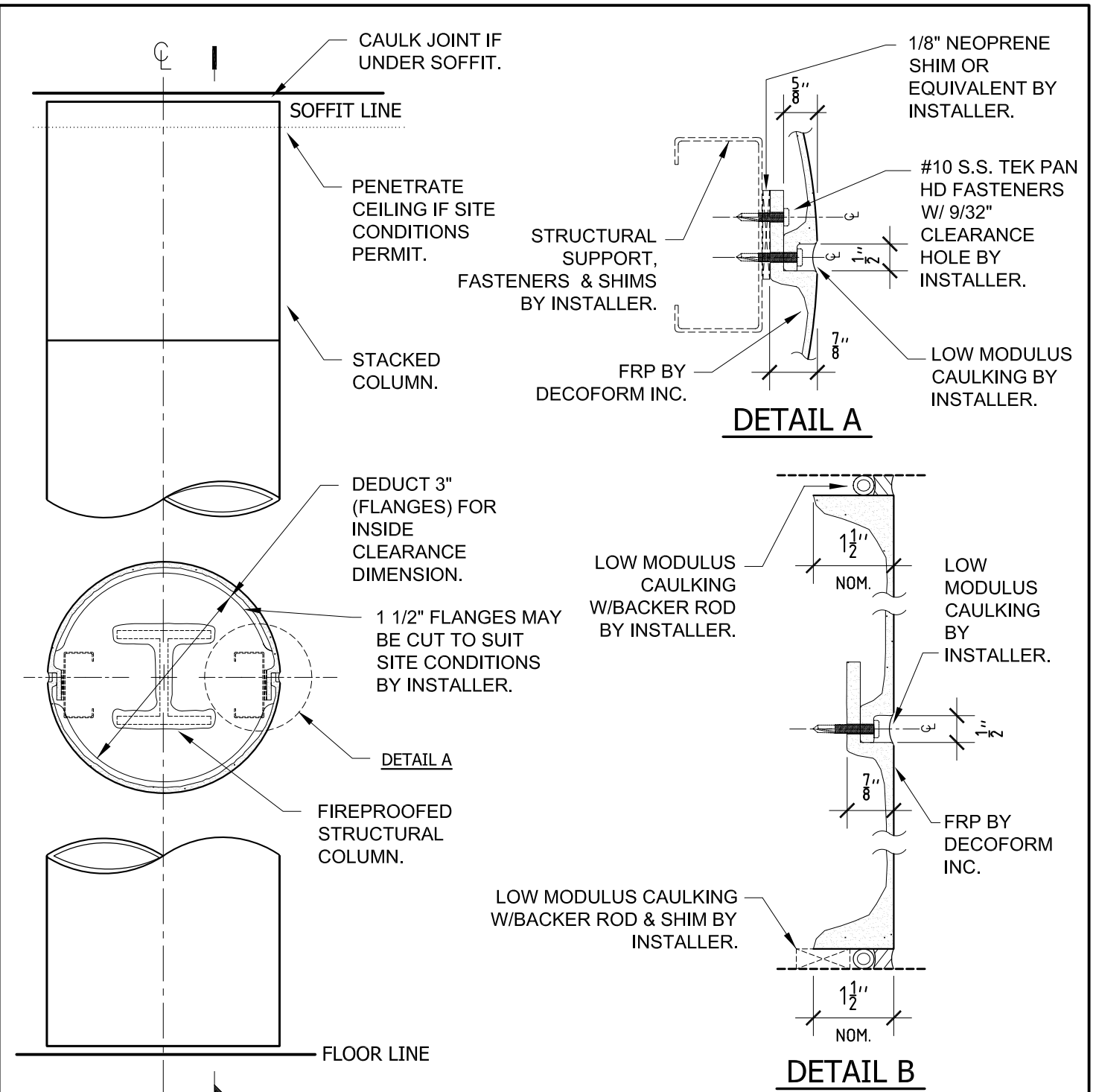
N.T.S.

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Typical GRC Installation

Column Covers



NOTES:

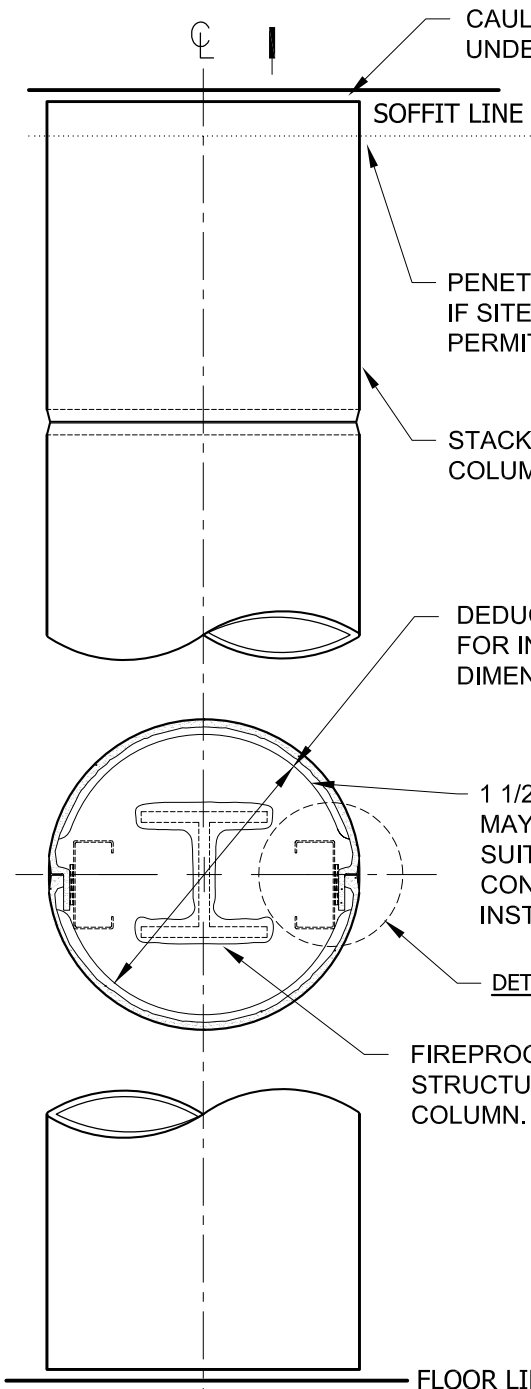
- (1) FRP IS FOR INTERIOR OR EXTERIOR USE.
- (2) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (3) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, CAULKING AND BODYFILL TO BE SUPPLIED BY OTHERS.
- (4) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.

N.T.S.

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Typical FRP Installation
 Column Covers with Caulk Joint



CAULK JOINT IF UNDER SOFFIT.

SOFFIT LINE

STRUCTURAL SUPPORT, FASTENERS & SHIMS BY INSTALLER.

PENETRATE CEILING IF SITE CONDITIONS PERMIT.

STACKED COLUMN.

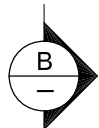
DEDUCT 3" (FLANGES) FOR INSIDE CLEARANCE DIMENSION

1 1/2" FLANGES MAY BE CUT TO SUIT SITE CONDITIONS BY INSTALLER

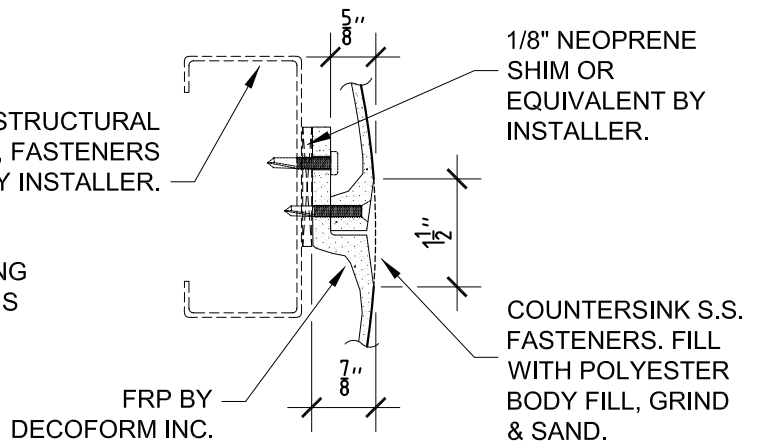
DETAIL A

FIREPROOFED STRUCTURAL COLUMN.

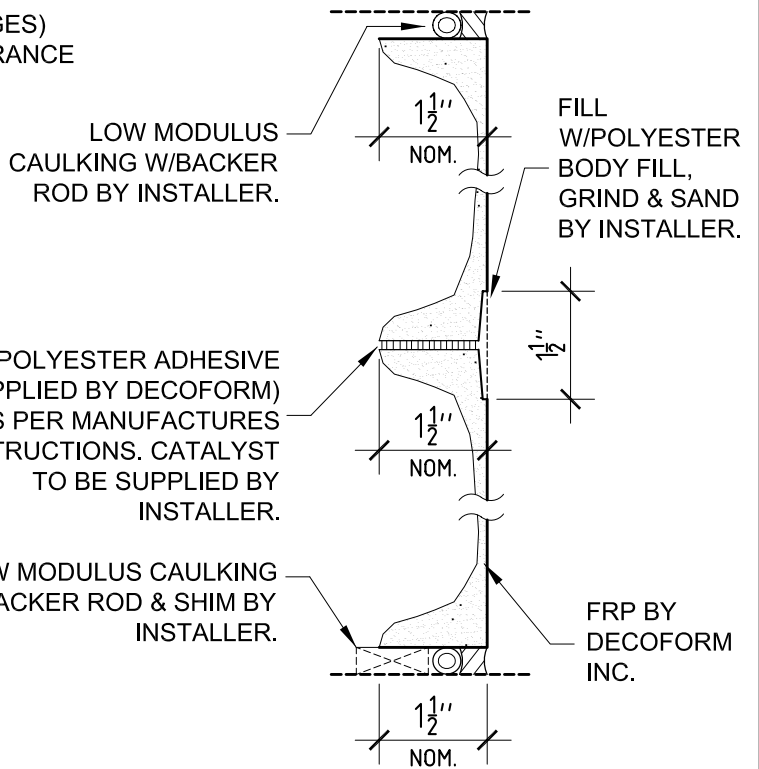
FLOOR LINE



DETAIL B



DETAIL A



DETAIL B

NOTES:

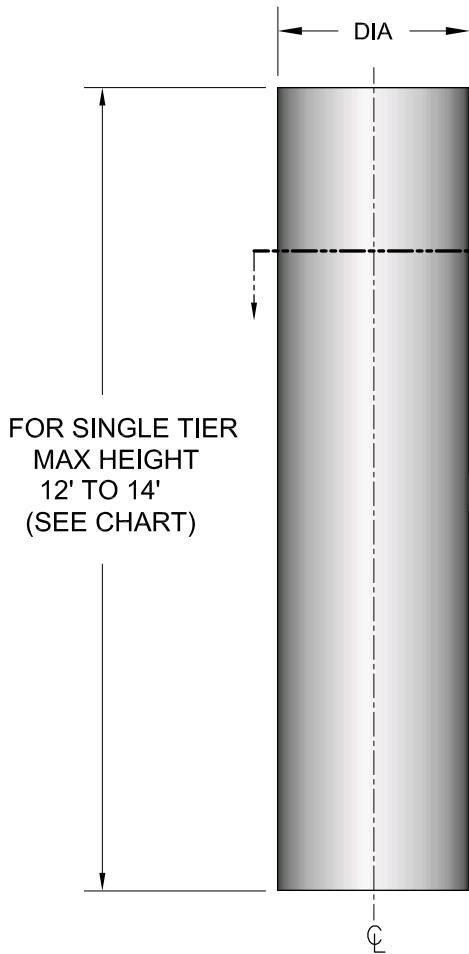
- (1) FRP IS FOR INTERIOR OR EXTERIOR USE.
- (2) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (3) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, CAULKING AND BODYFILL TO BE SUPPLIED BY OTHERS.
- (4) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.

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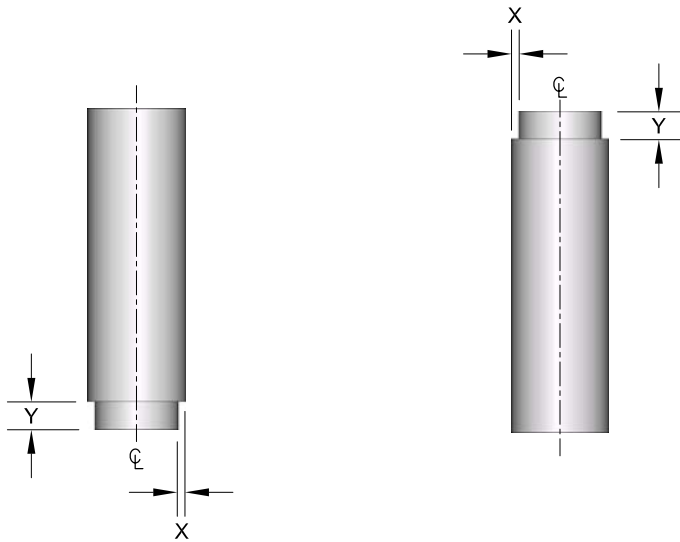


Typical FRP Installation
Monolithic Column Covers



FOR SINGLE TIER
MAX HEIGHT
12' TO 14'
(SEE CHART)

FOR SECTIONS SHOWING
TYPICAL JOINT & STACKING
DETAILS REFER TO PAGE
1-B.1 GRG
1-B.2 GRC
1-B.3 & 1-B.4 FRP



	DIA.	MAX. Ht.	PART No
*	6"	14'-0"	CC106
*	8"	14'-0"	CC108
*	10"	14'-0"	CC110
*	12"	14'-0"	CC112
*	14"	14'-0"	CC114
*	15"	12'-0"	CC115
*	16"	14'-0"	CC116
*	18"	14'-0"	CC118
*	20"	14'-0"	CC120
**	22"	14'-0"	CC122
**	24"	14'-0"	CC124
**	26"	14'-0"	CC126
**	28"	14'-0"	CC128
**	30"	14'-0"	CC130
**	32"	14'-0"	CC132
**	34"	14'-0"	CC134
**	36"	14'-0"	CC136
**	38"	14'-0"	CC138
**	40"	12'-0"	CC140
**	42"	12'-0"	CC142
**	48"	12'-0"	CC148
**	52"	12'-0"	CC152

STANDARD RECESSES:

- * - COL. COVERS FROM 6" DIA. TO 20" DIA.: X=1/2", Y=4"
- ** - COL. COVERS FROM 22" DIA. TO 52" DIA.: X=1" , Y=4"

(1) SEE PAGE 1-B.1 TO 1-B.4 FOR TYPICAL INSTALLATIONS AND ATTACHMENTS. (3) CUSTOM SIZE RECESSES AVAILABLE ON REQUEST.

(2) SEE SECTION 2 FOR TYPICAL CAPITAL & BASE OPTION. (4) SEE GENERAL INFORMATION PAGE i.

N.T.S.

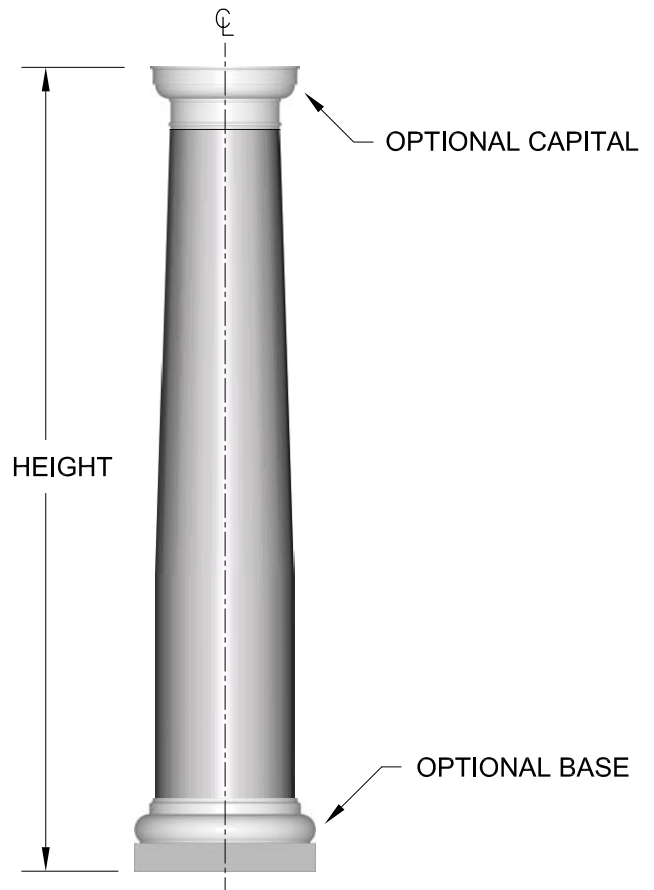
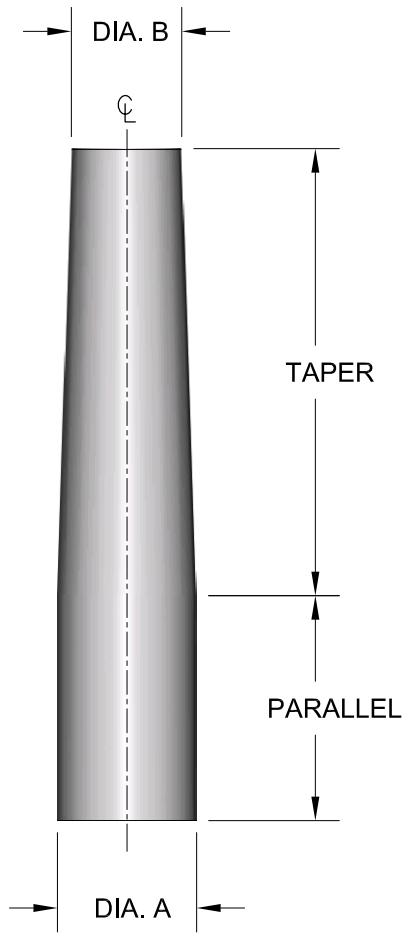
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Plain Column Covers
and Recess Options

DIA. A	DIA. B	HEIGHT		PART No
		MIN	MAX	
10"	8"	5'-5"	8'-6"	CC210
12"	10"	5'-7"	9'-10"	CC212
14"	12"	6'-0"	10'-11"	CC214
16"	14"	7'-5"	13'-10"	CC216
* 18"	15"	8'-0"	15'-0"	CC218
* 20"	17"	8'-10"	16'-2"	CC220
* 22"	19"	9'-10"	19'-4"	CC222
* 24"	21"	10'-9"	19'-0"	CC224



* MAY BE SUPPLIED AS 2 TIERS

(1) SEE SECTION 2 FOR OTHER VARIATIONS OF BASES AND CAPITALS.

(3) SEE PAGE 1-B.1 TO 1-B.4 FOR TYPICAL INSTALLATIONS AND ATTACHMENTS.

(2) THE RELATIONSHIP BETWEEN TAPER AND PARALLEL LENGTHS WILL VARY DEPENDING UPON OVERALL HEIGHT.

(4) SEE GENERAL INFORMATION PAGE i.

N.T.S.

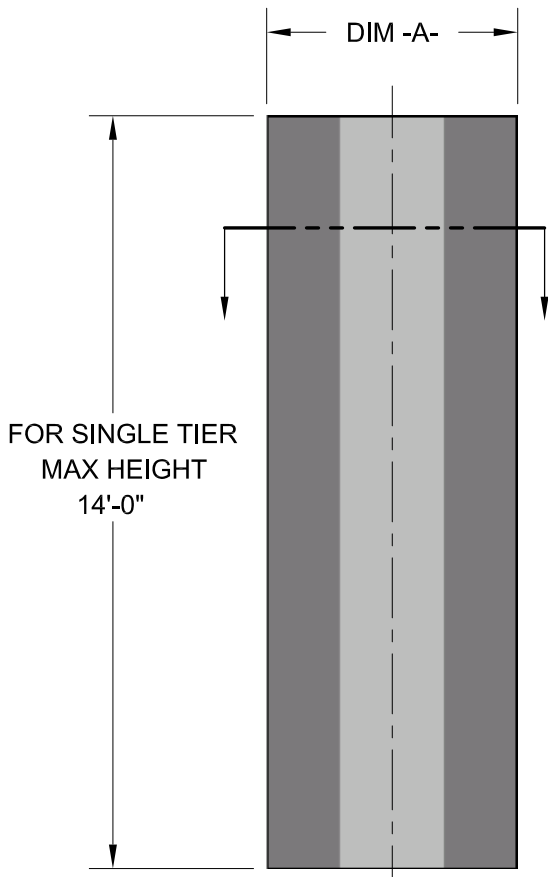
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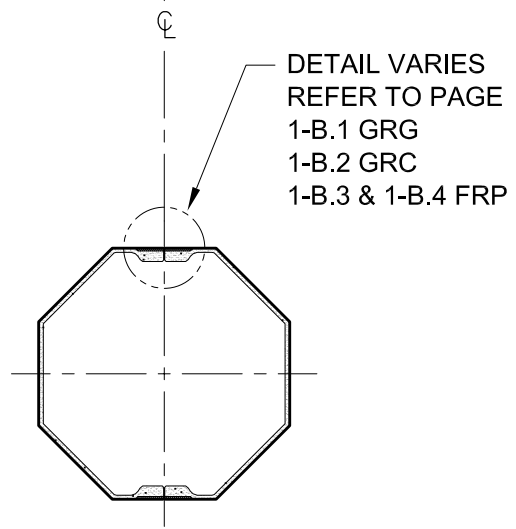
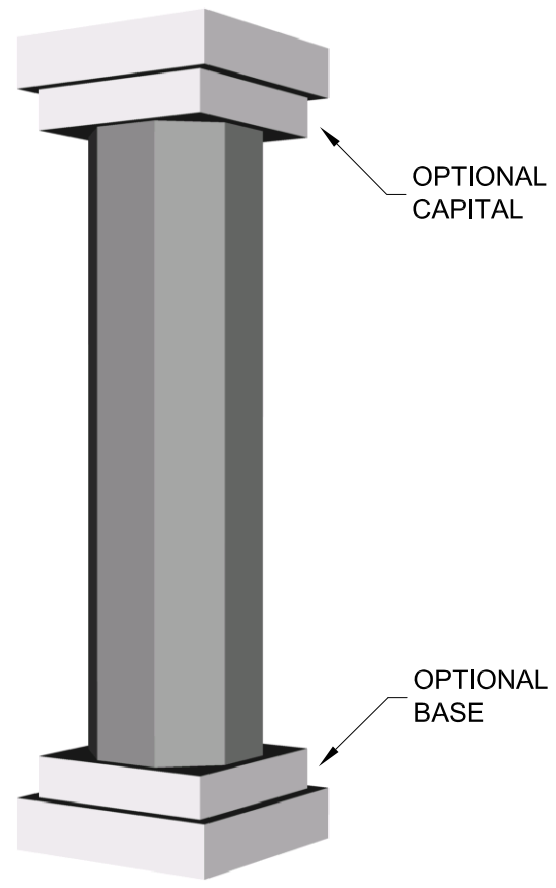


Tapered Column Covers

DIM -A-	PART No
10"	CC310
12"	CC312
16"	CC316
20"	CC320
24"	CC324
26"	CC326
30"	CC330



FOR SECTIONS SHOWING
JOINT & STACKING DETAILS
REFER TO PAGE
1-B.1 GRG
1-B.2 GRC
1-B.3 & 1-B.4 FRP



(1) SEE PAGE 1-B.1 TO 1-B.4 FOR TYPICAL INSTALLATIONS AND ATTACHMENTS.

(2) SEE GENERAL INFORMATION PAGE i.

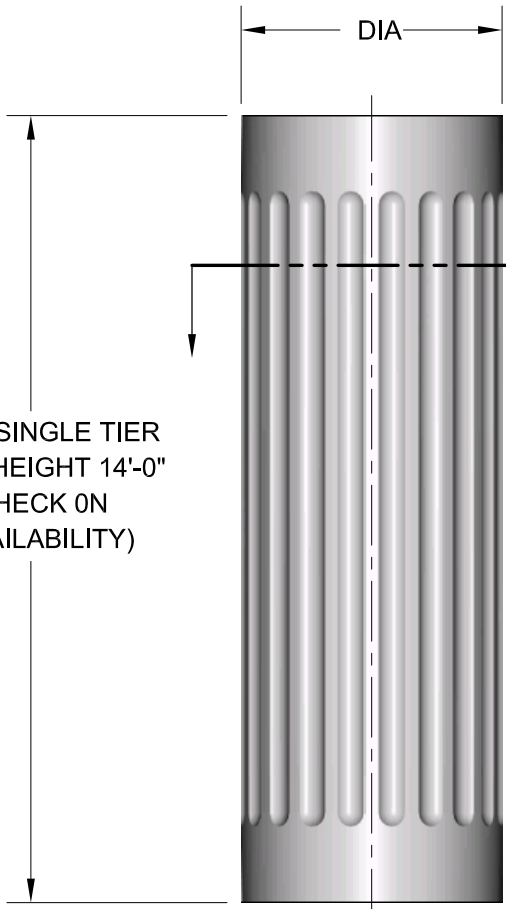
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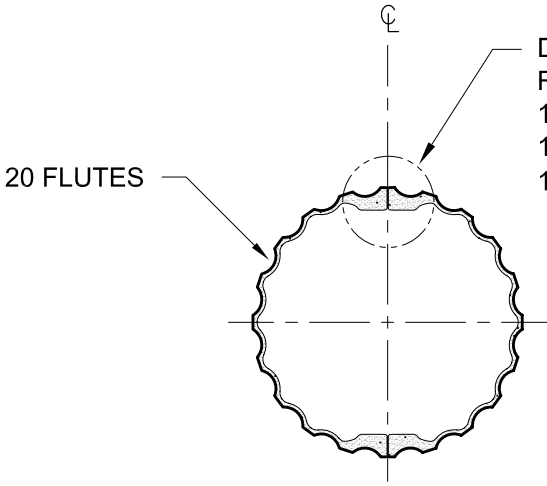
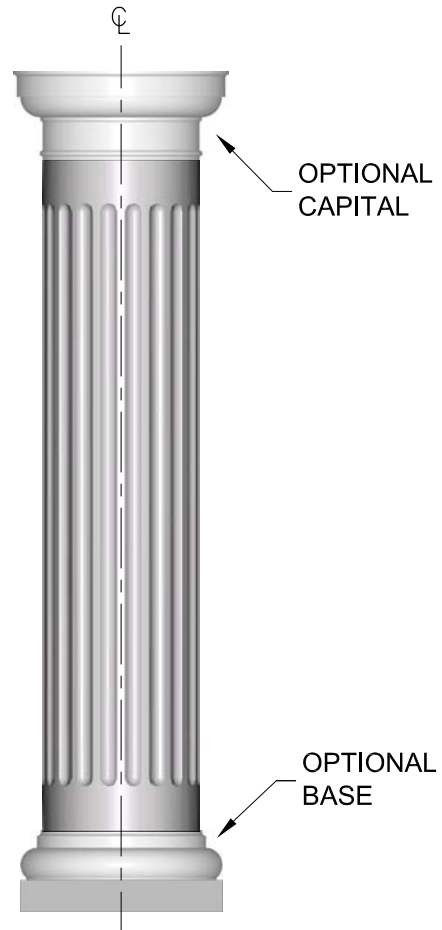


Octagonal Column Covers

DIA	PART No
10"	CC410
12"	CC412
14"	CC414
16"	CC416
18"	CC418
20"	CC420
22"	CC422
24"	CC424
26"	CC426



FOR SECTIONS SHOWING
JOINT & STACKING DETAILS
REFER TO PAGE
1-B.1 GRG
1-B.2 GRC
1-B.3 & 1-B.4 FRP



(1) SEE SECTION 2 FOR OTHER VARIATIONS OF BASES AND CAPITALS.

(3) SEE GENERAL INFORMATION PAGE i.

(2) SEE PAGE 1-B.1 TO 1-B.4 FOR TYPICAL INSTALLATIONS AND ATTACHMENTS.

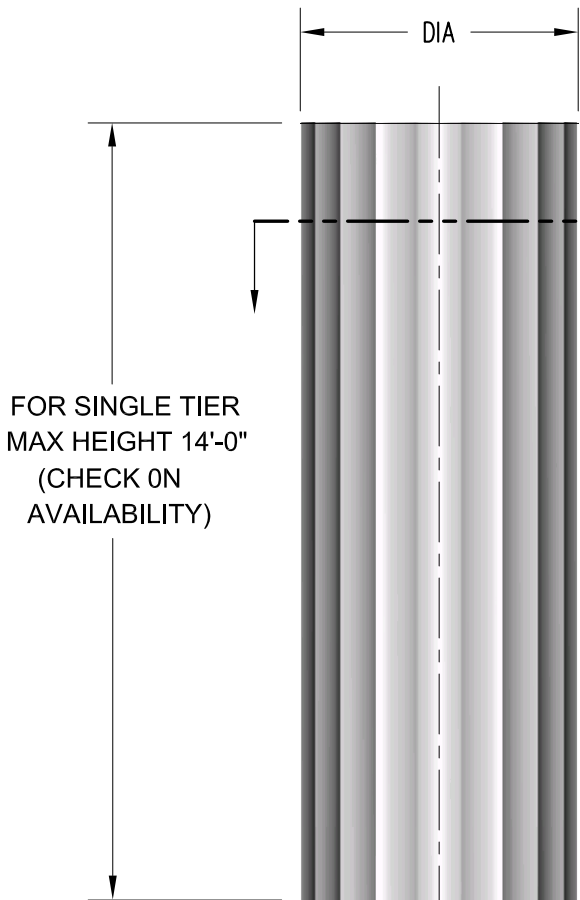
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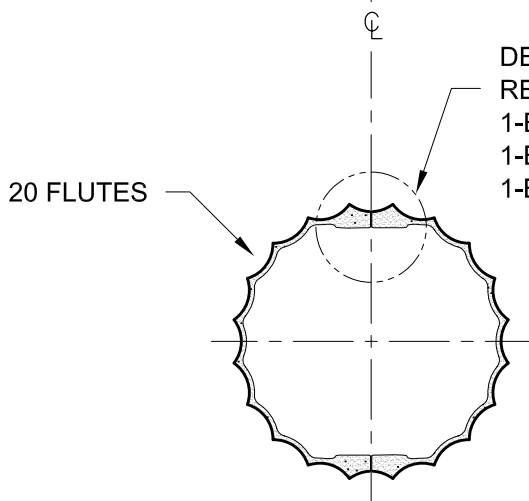
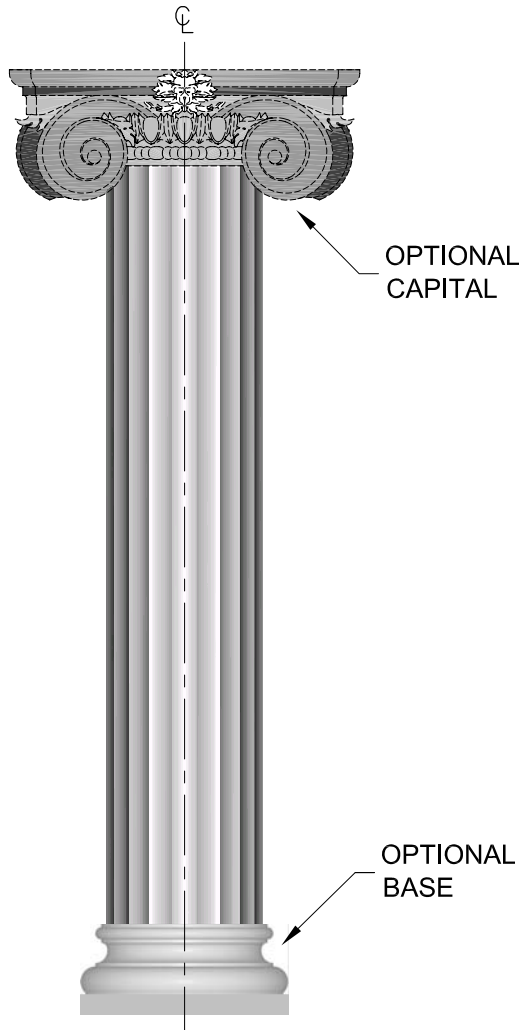


Fluted Column Covers

DIA	PART No
12"	CC512
14"	CC514
16"	CC516
18"	CC518
20"	CC520
22"	CC522
24"	CC524
26"	CC526
28"	CC528



FOR SECTIONS SHOWING
JOINT & STACKING DETAILS
REFER TO PAGE
1-B.1 GRG
1-B.2 GRC
1-B.3 & 1-B.4 FRP



(1) SEE SECTION 2 FOR OTHER VARIATIONS OF BASES AND CAPITALS.

(3) SEE GENERAL INFORMATION PAGE i.

(2) SEE PAGE 1-B.1 TO 1-B.4 FOR TYPICAL INSTALLATIONS AND ATTACHMENTS.

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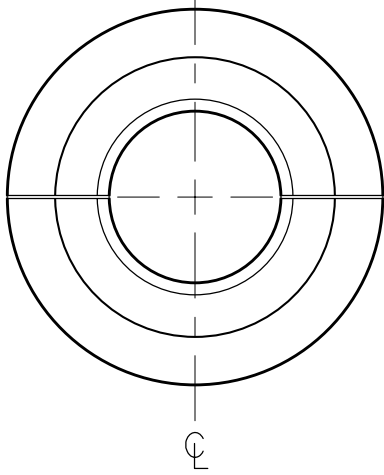
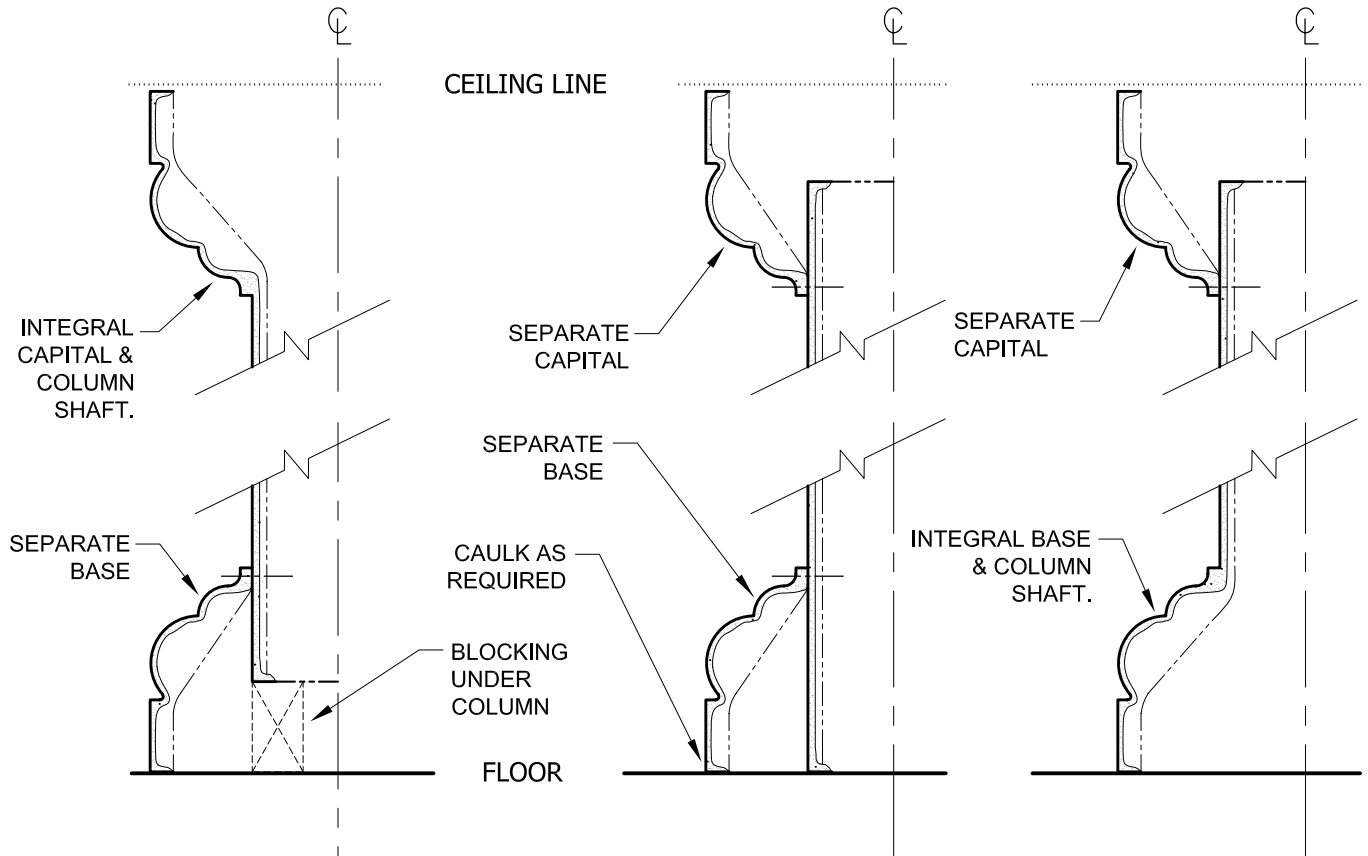


Fluted Column Covers

METHOD 1

METHOD 2

METHOD 3



SECTION THROUGH COLUMN

NOTES:

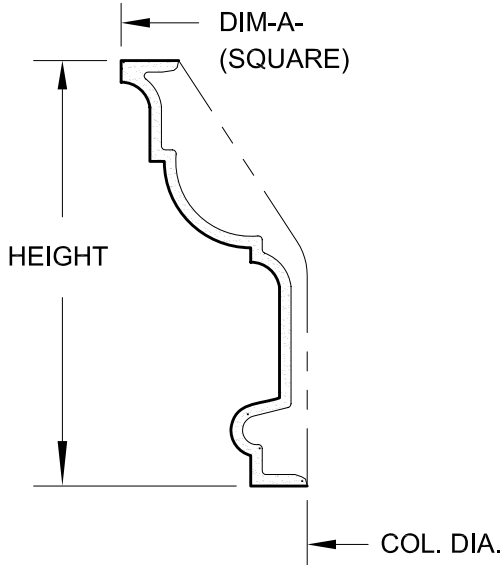
- (1) INDIVIDUAL CAPITALS, COLUMN SHAFTS AND BASES WILL BE SUPPLIED AS PER METHOD 1 UNLESS STATED OTHERWISE AT TIME OF QUOTE REQUEST.
- (2) COLUMN SHAFTS WITH INTEGRAL BASE ARE AVAILABLE AS SHOWN IN METHOD 3.
- (3) TAPE JOINTS ARE PROVIDED ONLY ON GRG UNITS AND WHERE PROFILES PERMIT.
- (4) CAPITALS AND BASES ARE SUPPLIED AS HALVES.
- (5) ATTACH CAPITAL OR BASE WITH CONSTRUCTION ADHESIVE AND SCREWS.

N.T.S.

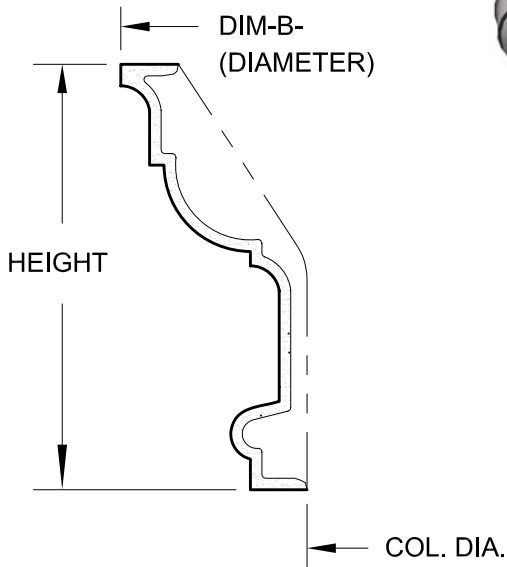
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Assembly Options
 Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
6 "	4 3/4"	9 3/4"	CB0106
8 "	5 3/8"	12 1/4"	CB0108
10"	6 3/8"	15 1/4"	CB0110
12"	7 3/8"	17 3/4"	CB0112
14"	8 3/8"	20 1/4"	CB0114
16"	9 3/8"	23"	CB0116
18"	10 3/8"	25 1/2"	CB0118
20"	11 3/8"	28"	CB0120
22"	12 3/8"	30 1/2"	CB0122
24"	13 3/8"	33 1/4"	CB0124
26"	14 3/8"	35 3/4"	CB0126
28"	15 3/8"	38"	CB0128
30"	16 3/8"	40 3/4"	CB0130
32"	17 3/8"	43 1/4"	CB0132
34"	18 3/8"	46"	CB0134
36"	19 3/8"	49 3/8"	CB0136



COL DIA	HEIGHT	DIM-B-	PART No
8 "	5 3/8"	12 1/4"	CB0208
10"	6 3/8"	15 1/4"	CB0210
12"	7 3/8"	17 3/4"	CB0212
14"	8 3/8"	20 1/4"	CB0214
16"	9 3/8"	23"	CB0216
18"	10 3/8"	25 1/2"	CB0218
20"	11 3/8"	28"	CB0220
22"	12 3/8"	30 1/2"	CB0222
24"	13 3/8"	33 1/4"	CB0224
26"	14 3/8"	35 3/4"	CB0226
28"	15 3/8"	38"	CB0228
30"	16 3/8"	40 3/4"	CB0230
32"	17 3/8"	43 1/4"	CB0232

(1) CAPITALS & BASES ARE SUPPLIED AS HALVES.

(3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S.

(2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS.

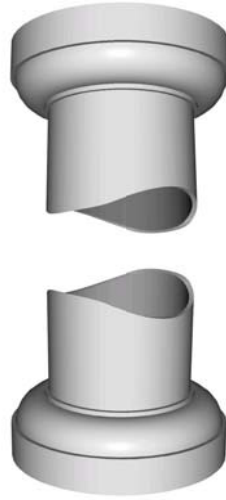
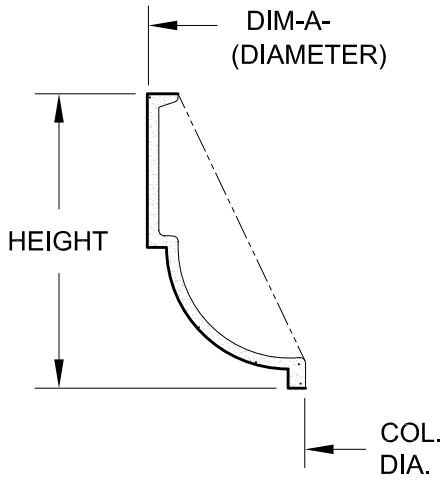
(4) SEE GENERAL INFORMATION PAGE i.

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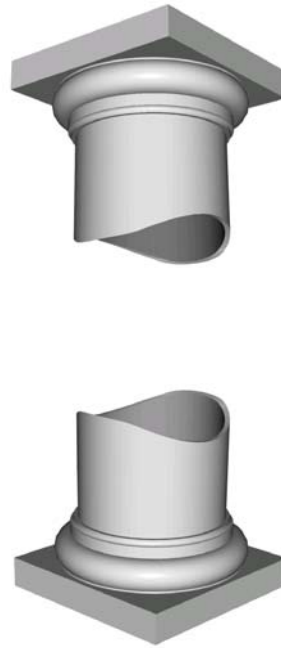
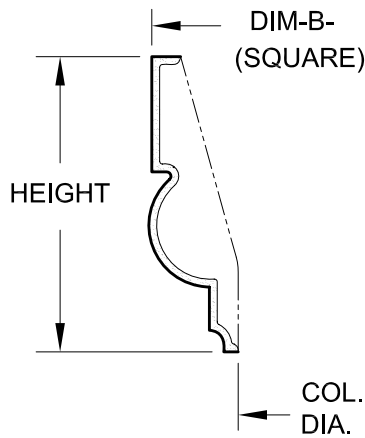
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Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
8"	3 ³ / ₄ "	10 ³ / ₈ "	CB0308
10"	5 ¹ / ₈ "	15 ¹ / ₂ "	CB0310
12"	5 ³ / ₄ "	18 ¹ / ₄ "	CB0312
14"	6 ³ / ₄ "	21"	CB0314
16"	7 ³ / ₄ "	23 ³ / ₄ "	CB0316
18"	8 ³ / ₄ "	26 ¹ / ₂ "	CB0318
20"	9 ³ / ₄ "	29 ¹ / ₂ "	CB0320
22"	10 ³ / ₄ "	32 ³ / ₄ "	CB0322
24"	11 ³ / ₄ "	35 ¹ / ₂ "	CB0324



COL DIA	HEIGHT	DIM-B-	PART No
8"	4 ³ / ₈ "	11 ¹ / ₈ "	CB0408
10"	5 ³ / ₈ "	13 ¹ / ₂ "	CB0410
12"	6 ³ / ₈ "	16 ¹ / ₈ "	CB0412
14"	7 ³ / ₈ "	18 ⁵ / ₈ "	CB0414
16"	8 ³ / ₈ "	21 ¹ / ₈ "	CB0416
18"	9 ³ / ₈ "	23 ³ / ₄ "	CB0418
20"	10 ³ / ₈ "	26 ¹ / ₄ "	CB0420
22"	11 ³ / ₈ "	28 ³ / ₄ "	CB0422
24"	12 ³ / ₈ "	31 ³ / ₈ "	CB0424
26"	13 ³ / ₈ "	33 ⁷ / ₈ "	CB0426
28"	14 ³ / ₈ "	36 ¹ / ₂ "	CB0428
30"	15 ³ / ₈ "	39"	CB0430
32"	16 ³ / ₈ "	41 ¹ / ₂ "	CB0432
36"	18 ³ / ₈ "	46 ¹ / ₂ "	CB0436
40"	20 ¹ / ₂ "	52"	CB0440
42"	21 ³ / ₈ "	52 ³ / ₄ "	CB0442

(1) CAPITALS & BASES ARE SUPPLIED AS HALVES.

(3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

(2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS.

(4) SEE GENERAL INFORMATION PAGE i.

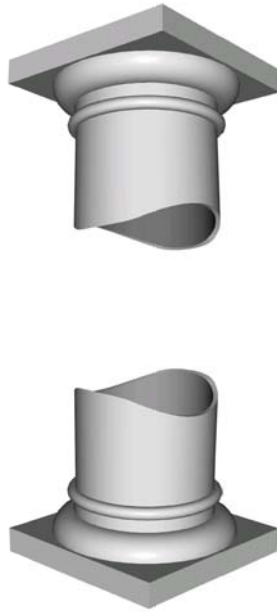
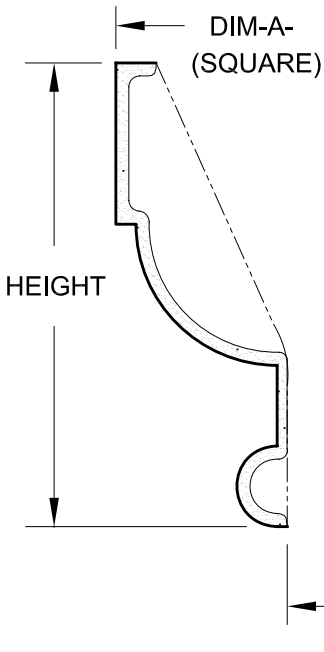
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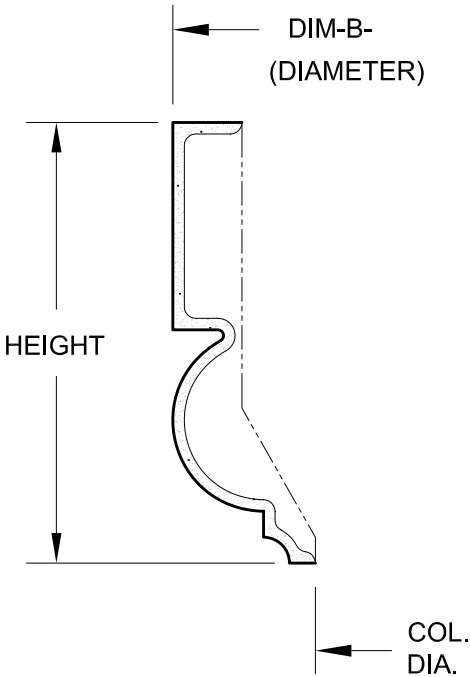
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Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
8"	4 3/8"	11 3/4"	CB0508
10"	5 3/8"	14 1/4"	CB0510
12"	6 3/8"	16 3/4"	CB0512
14"	7 3/8"	19 1/2"	CB0514
16"	8 3/8"	21 3/4"	CB0516
18"	9 3/8"	24 1/4"	CB0518
20"	10 3/8"	27"	CB0520
22"	11 3/8"	29 1/2"	CB0522
24"	12 3/8"	31 3/4"	CB0524
26"	13 3/8"	34 1/2"	CB0526
30"	15 3/8"	39 1/2"	CB0530
32"	16 3/8"	42"	CB0532



COL DIA	HEIGHT	DIM-B-	PART No
10"	5 3/8"	13 1/2"	CB0610
12"	6 3/8"	16 1/8"	CB0612
14"	7 3/8"	18 5/8"	CB0614
16"	8 3/8"	21 1/8"	CB0616
18"	9 3/8"	23 3/4"	CB0618
20"	10 3/8"	26 1/4"	CB0620
22"	11 3/8"	28 3/4"	CB0622
24"	12 3/8"	31 3/8"	CB0624

(1) CAPITALS & BASES ARE SUPPLIED AS HALVES.

(3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S.

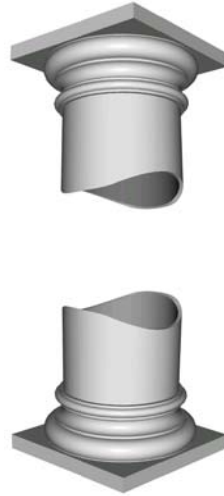
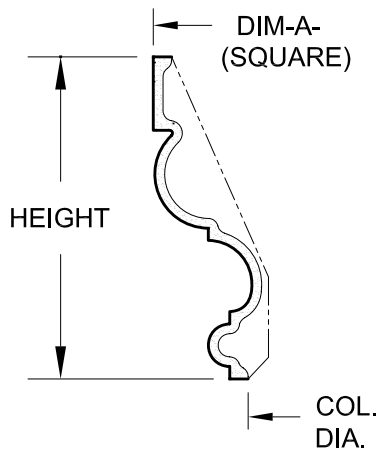
(2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS.

(4) SEE GENERAL INFORMATION PAGE I.

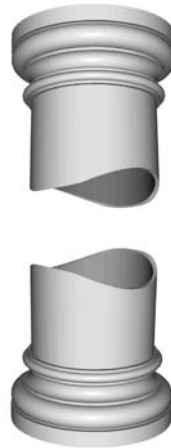
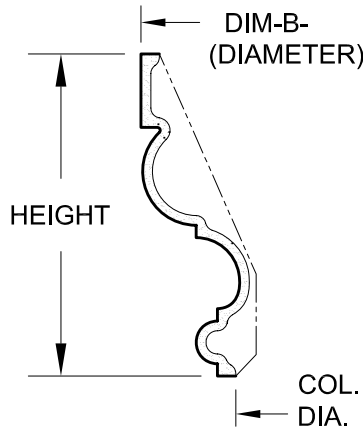
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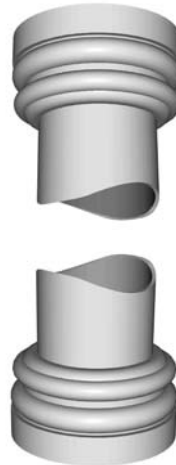
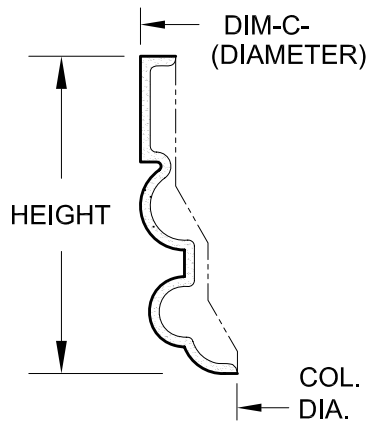
Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
10"	5 3/4"	13 3/8"	CB0710
12"	6 7/8"	16"	CB0712
14"	8"	18 5/8"	CB0714
16"	9 1/8"	21 1/4"	CB0716
18"	10 1/4"	23 3/4"	CB0718
20"	11 7/16"	26 1/4"	CB0720
22"	12 1/2"	28 7/8"	CB0722
24"	13 1 1/16"	31 3/8"	CB0724
28"	(14 15/16")	(34 1/8")	CB0728
32"	18 3/16"	42"	CB0732



COL DIA	HEIGHT	DIM-B-	PART No
12"	6 7/8"	16"	CB1612
14"	8"	18 5/8"	CB1614
18"	10 1/4"	23 3/4"	CB1618
20"	11 7/16"	26 1/4"	CB1620
22"	(12 3/4")	(28 3/4")	CB1622
24"	(14 1/16")	(31 1/4")	CB1624



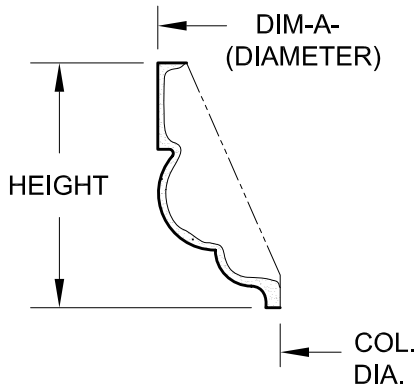
COL DIA	HEIGHT	DIM-C-	PART No
14"	10 1/2"	20 3/8"	CB0814
16"	12"	23 3/8"	CB0816
18"	13 1/2"	26 1/4"	CB0818
20"	15"	29 1/8"	CB0820
24"	18"	35"	CB0824

N.T.S. (1) CAPITALS & BASES ARE SUPPLIED AS HALVES. (2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS. (3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS. (4) SEE GENERAL INFORMATION PAGE i.

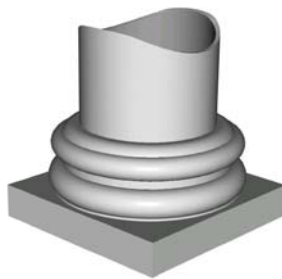
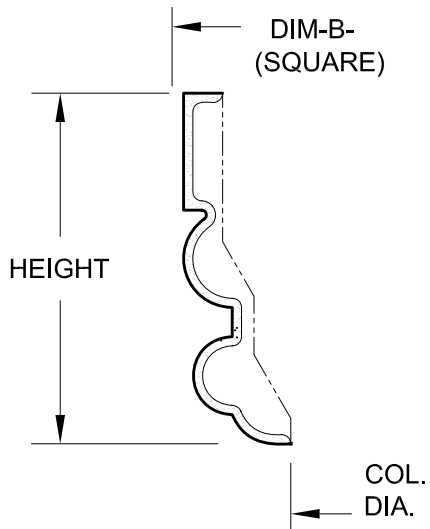
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Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
12"	5 1/8"	17 3/4"	CB0912
14"	6"	20 3/4"	CB0914
16"	6 3/4"	23 1/2"	CB0916
20"	8 1/2"	29 1/4"	CB0920
24"	10 1/4"	35"	CB0924



COL DIA	HEIGHT	DIM-B-	PART No
12"	9"	17 1/2"	CB1012
14"	10 1/2"	20 3/8"	CB1014
16"	12"	23 3/8"	CB1016
18"	13 1/2"	26 1/4"	CB1018
20"	15"	29 1/8"	CB1020
24"	18"	35"	CB1024

(1) CAPITALS & BASES ARE SUPPLIED AS HALVES.
 (2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS.

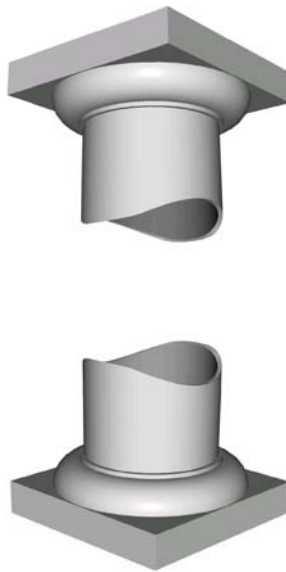
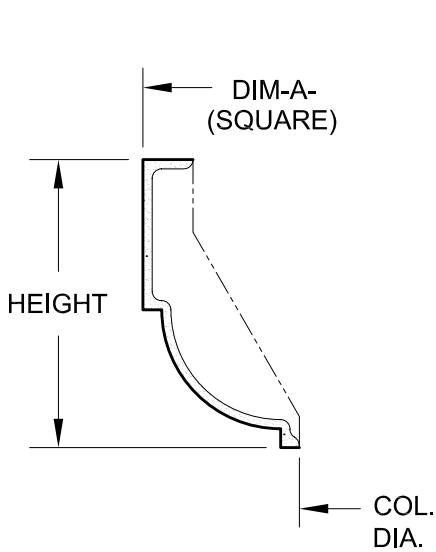
(3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.
 (4) SEE GENERAL INFORMATION PAGE i.

N.T.S.

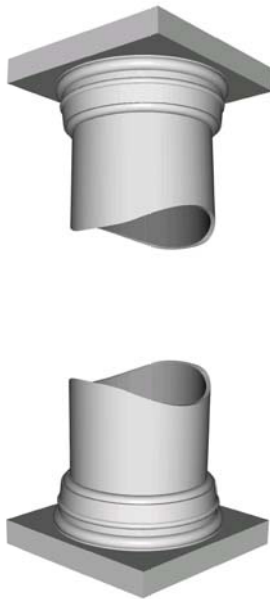
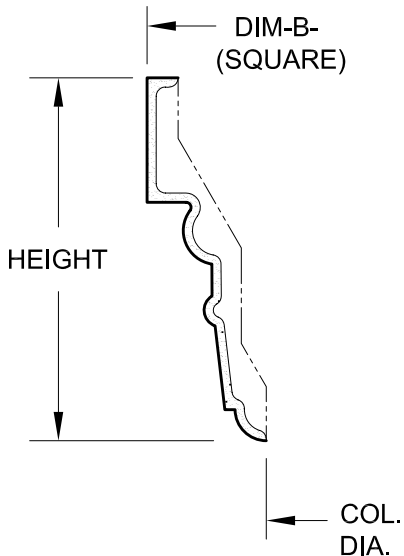
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Capitals & Bases



COL DIA	HEIGHT	DIM-A-	PART No
12"	5 3/4"	18 1/4"	CB1112
14"	6 3/4"	21"	CB1114
16"	7 3/4"	23 3/4"	CB1116
18"	8 3/4"	26 1/2"	CB1118
20"	9 3/4"	29 1/2"	CB1120
22"	10 3/4"	32 3/4"	CB1122
24"	11 3/4"	35 1/2"	CB1124



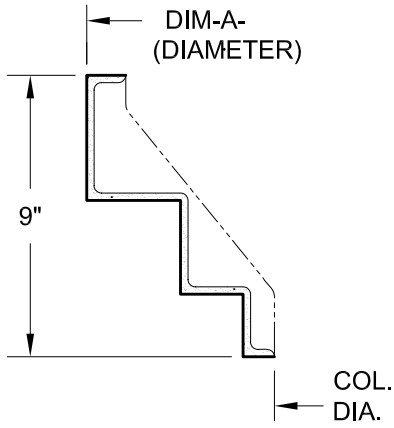
COL DIA	HEIGHT	DIM-B-	PART No
16"	8 3/4"	22"	CB1216
20"	8 3/4"	26"	CB1220
24"	8 3/4"	30"	CB1224
30"	15 1/4"	41 1/4"	CB1230

N.T.S. (1) CAPITALS & BASES ARE SUPPLIED AS HALVES. (2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS. (3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS. (4) SEE GENERAL INFORMATION PAGE i.

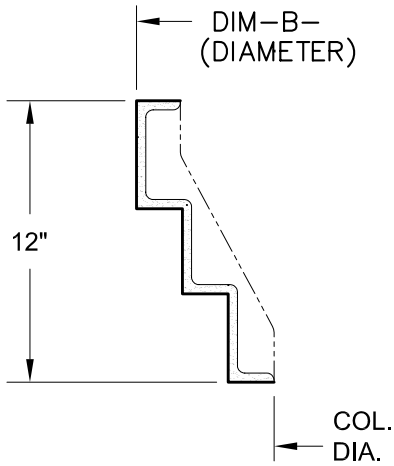
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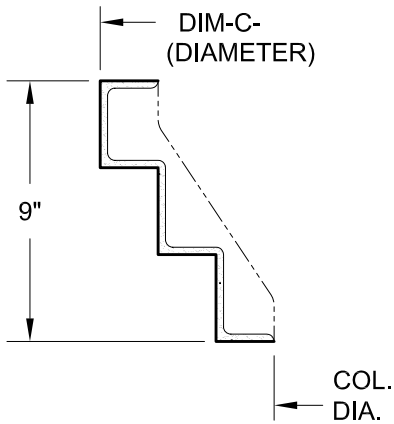
Capitals & Bases



COL DIA	DIM-A-	PART No
20"	32"	CB1320
24"	36"	CB1324
28"	40"	CB1328



COL DIA	DIM-B-	PART No
18"	30"	CB1418
22"	34"	CB1422
26"	38"	CB1426



COL DIA	DIM-C-	PART No
16"	28"	CB1516
18"	30"	CB1518
20"	32"	CB1520
22"	34"	CB1522
24"	36"	CB1524

(1) CAPITALS & BASES ARE SUPPLIED AS HALVES.

(3) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S. (2) SEE PAGE 2-A FOR ASSEMBLY OPTIONS.

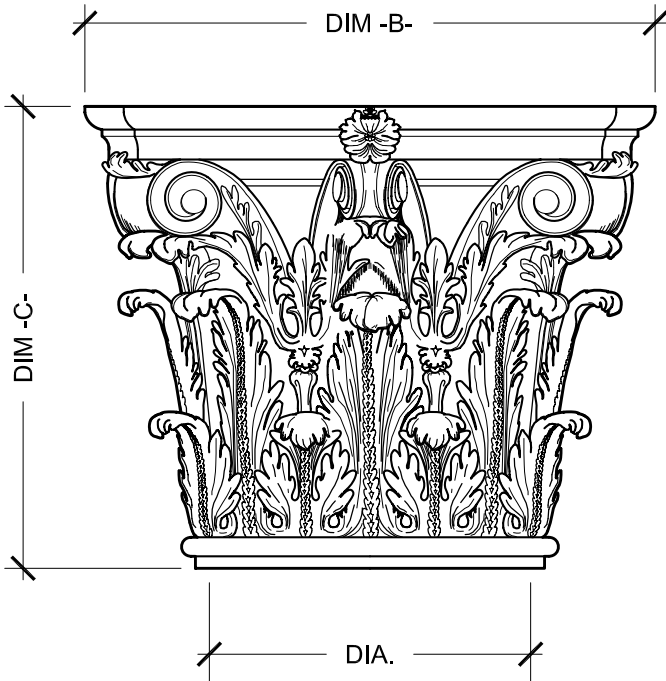
(4) SEE GENERAL INFORMATION PAGE i.

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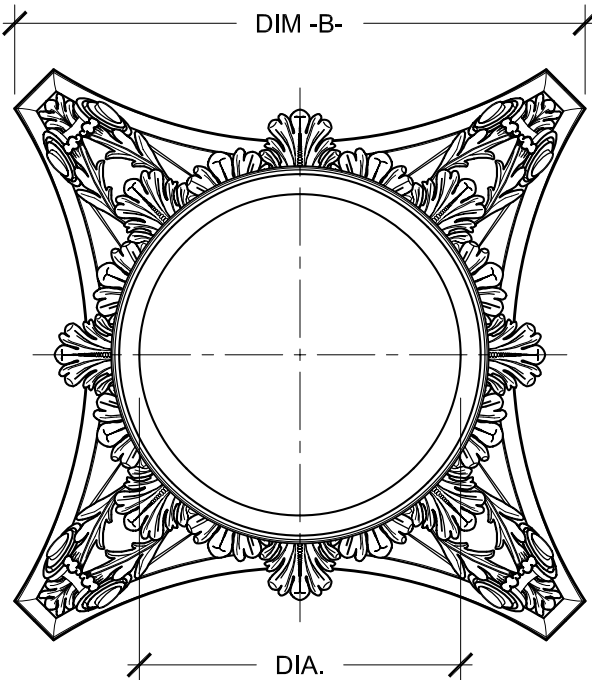
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Capitals & Bases



SIDE VIEW



BOTTOM VIEW

N.T.S.

DIA	DIM-B-	DIM-C-	PART No
10"	17 ³ / ₄ "	14 ³ / ₈ "	CA0010
12"	20 ³ / ₄ "	16 ⁷ / ₈ "	CA0012
14"	23 ³ / ₄ "	19 ¹ / ₈ "	CA0014
16"	26 ³ / ₄ "	21 ⁵ / ₈ "	CA0016
18"	29 ³ / ₄ "	24"	CA0018
20"	32 ³ / ₄ "	26 ³ / ₈ "	CA0020
22"	35 ³ / ₄ "	28 ⁷ / ₈ "	CA0022

NOTES:

- (1) CAPITALS ARE SUPPLIED AS HALVES.
- (2) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

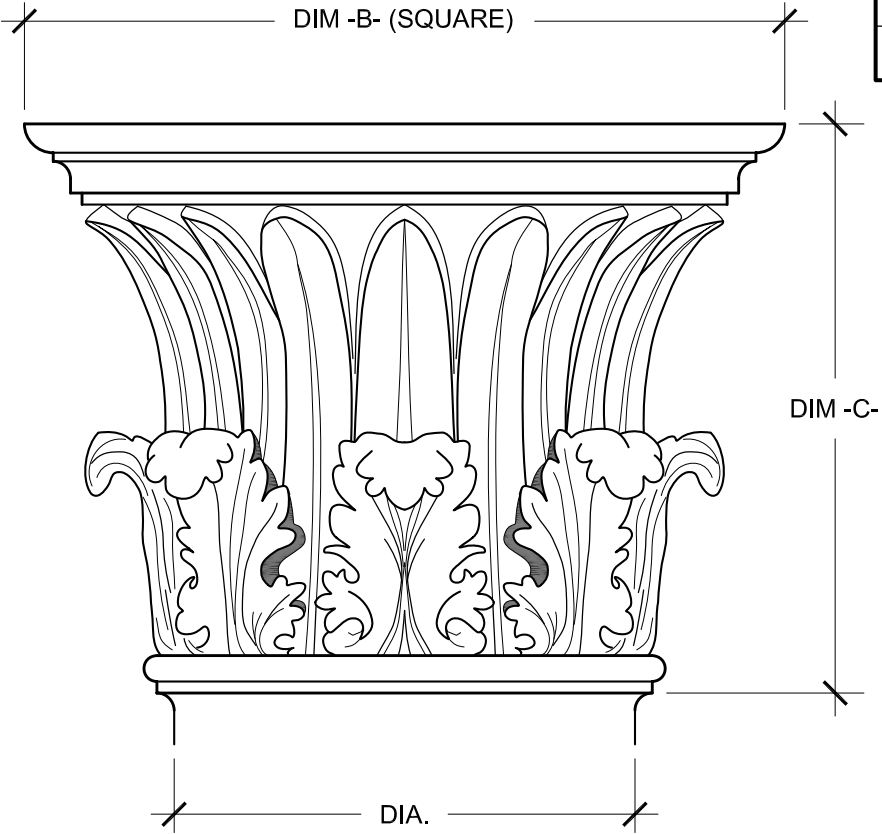
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Corinthian Capitals

DIA	DIM-B-	DIM-C-	PART No
10"	16 1/2" SQ.	12 3/8"	CA2010
16"	26 3/8" SQ.	19 3/4"	CA2016
22"	36 5/16" SQ.	27 3/16"	CA2022



SIDE VIEW

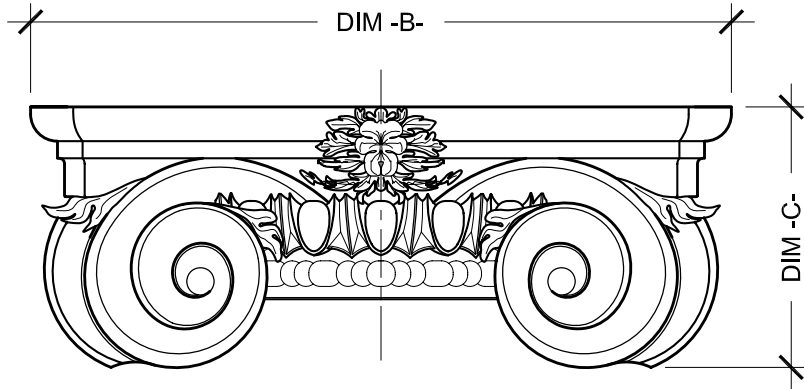
- NOTES:**
- (1) CAPITALS ARE SUPPLIED AS HALVES.
 - (2) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S.

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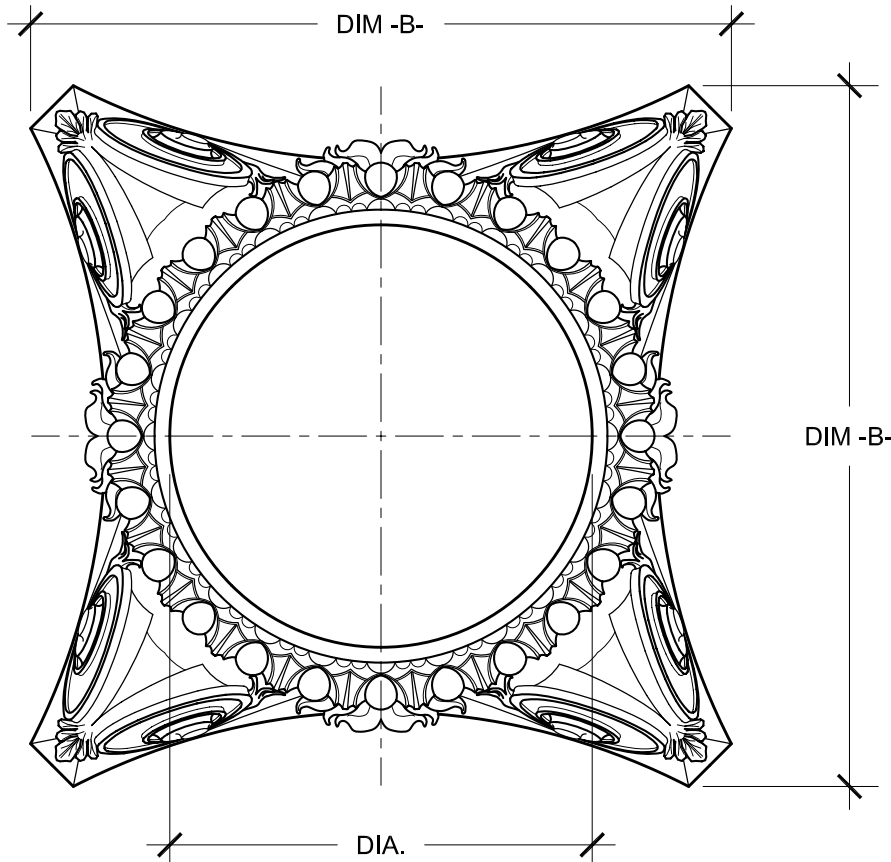


Temple of the Winds
 Capitals



SIDE VIEW

DIA	DIM-B-	DIM-C-	PART No
9"	(16 1/4")	(6")	CA0109
10"	18 1/4"	6 3/4"	CA0110
12"	20 1/2"	7 5/8"	CA0112
14"	23 7/8"	8 7/8"	CA0114
16"	27 3/8"	10 1/8"	CA0116
18"	30 3/4"	11 3/8"	CA0118
20"	34 1/8"	12 3/4"	CA0120
22"	37 5/8"	14"	CA0122



BOTTOM VIEW

NOTES:

- (1) CAPITALS ARE SUPPLIED AS HALVES.
- (2) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S.

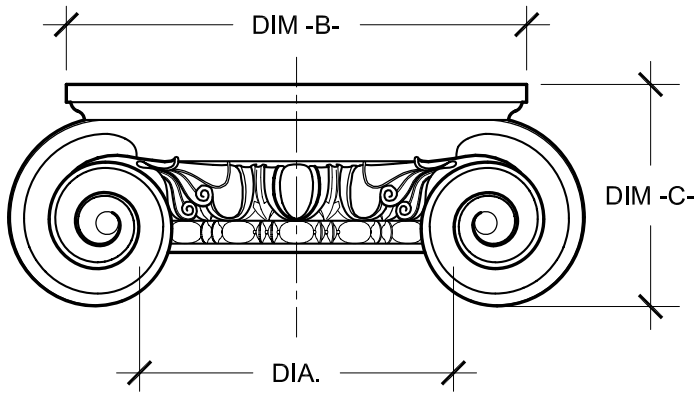
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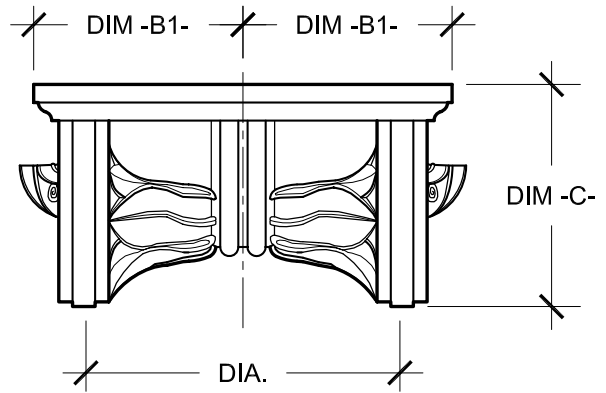


Scamozzi Capitals

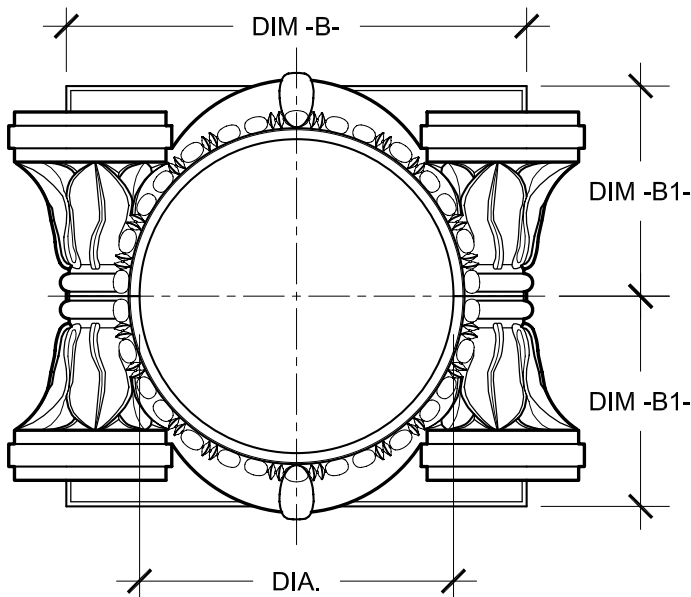
DIA	DIM-B-	DIM-B1-	DIM-C-	PART No
14"	19 1/8"	8 1/4"	8"	CA3014
24"	36"	16"	14 1/2"	CA3024
26"	(36")	(16 1/4")	(17 1/2")	CA3026



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

NOTES:

- (1) CAPITALS ARE SUPPLIED AS HALVES.
- (2) SEE SECTION 1 FOR COLUMN COVER SELECTIONS.

N.T.S.

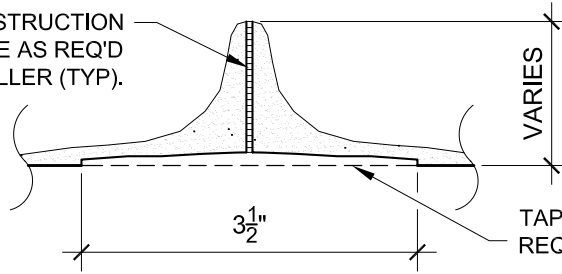
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Roman Ionic Capitals

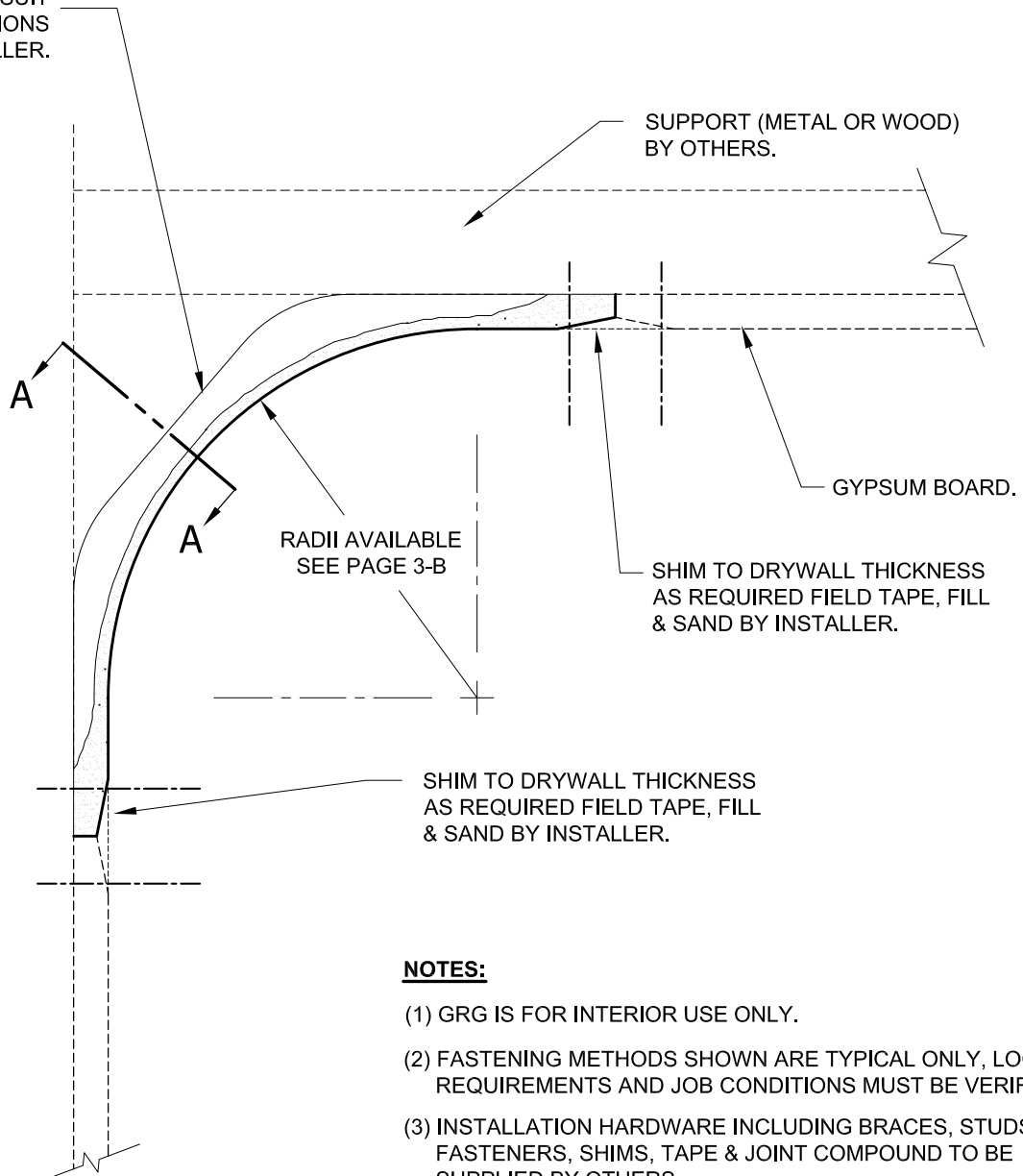
CONSTRUCTION
ADHESIVE AS REQ'D
BY INSTALLER (TYP).



TAPE, FILL AND SAND AS
REQ'D BY INSTALLER (TYP).

SECTION A-A

END FLANGES MAY
BE CUT TO SUIT
SITE CONDITIONS
BY INSTALLER.



NOTES:

- (1) GRG IS FOR INTERIOR USE ONLY.
- (2) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (3) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, TAPE & JOINT COMPOUND TO BE SUPPLIED BY OTHERS.
- (4) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.
- (5) PREMOLDED CORNERS ARE AVAILABLE.

N.T.S.

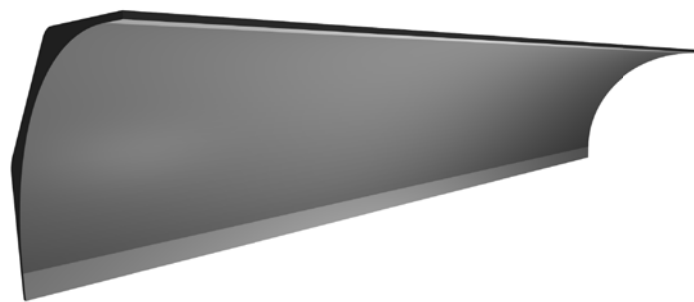
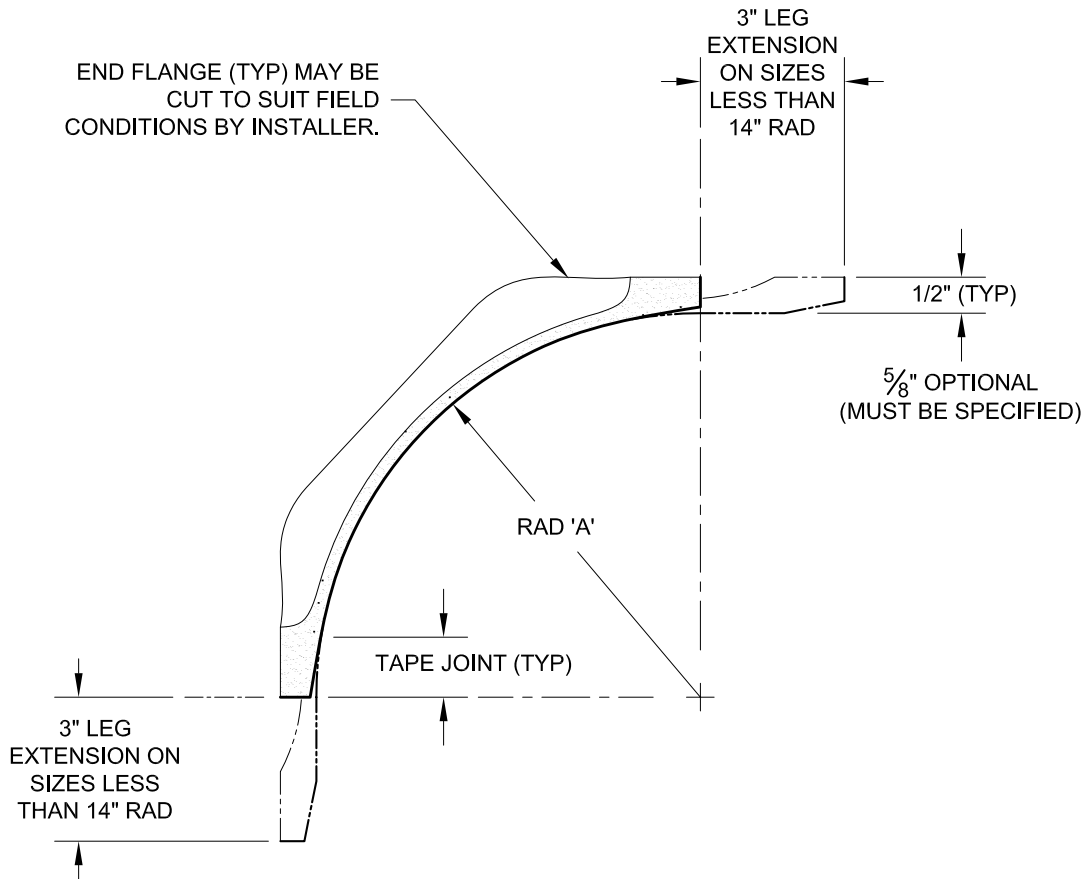
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Typical Installation (GRG) Coves (Reflectors)

RAD A	PART No
4"	CR004
6"	CR006
7"	CR007
8"	CR008
9"	CR009
10"	CR010
12"	CR012
14"	CR014
15"	CR015
16"	CR016
18"	CR018
20"	CR020
22"	CR022
24"	CR024
30"	CR030
48"	CR048



REFLECTOR SHADED PERSPECTIVE VIEW

(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAXIMUM WITH TAPE JOINTS BOTH ENDS.

(3) PREMOLDED CORNERS ARE AVAILABLE.

(2) SEE PAGE 3-A FOR TYPICAL INSTALLATIONS AND ATTACHMENTS.

(4) SEE GENERAL INFORMATION PAGE i.

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GRG Coves (Reflectors)

FOR COVES
(REFLECTORS)
SEE SECTION 3.

STUD.

No. 12 GAUGE
HANGER WIRE
(BELOW LINE
OF SITE).

MOUNTING
BRACKET.

A

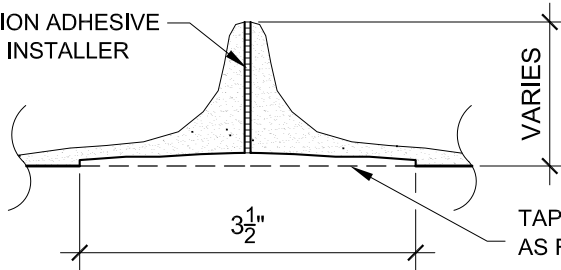
A

TAPE JOINT (GRG ONLY)
CONSULT WITH DECOFORM
FOR DETAILS WHEN USING
OTHER MATERIALS.

GYPSUM BOARD.

END FLANGES MAY BE CUT TO SUIT
SITE CONDITIONS BY INSTALLER.

CONSTRUCTION ADHESIVE
AS REQ'D BY INSTALLER
(TYP).



TAPE, FILL AND SAND
AS REQ'D BY INSTALLER
(TYP).

SECTION A-A (GRG ONLY)

NOTES:

- (1) LIGHT COVES CAN BE SUPPLIED IN GRG, GRC, FRP OR SANDSCAPE.
- (2) GRG IS FOR INTERIOR USE ONLY.
- (3) FASTENING METHODS SHOWN ARE TYPICAL ONLY,
LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (4) SUPPORT LIGHT FIXTURE DIRECTLY TO METAL OR WOOD BRACING.
(NOT TO LIGHT COVE).
- (5) ON LARGER PROFILES, WIRE TIES ARE RECOMMENDED.

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Typical Installation Light Coves

	<table border="1"> <thead> <tr> <th>DIM -A-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>10"</td> <td>LC001</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -A-	PART No	10"	LC001																		
DIM -A-	PART No																						
10"	LC001																						
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DIM -B-	PART No																						
8 1/2"	LC010																						
<p>TAPE JOINT OPTIONAL (GRG ONLY).</p>	<table border="1"> <thead> <tr> <th>DIM -C-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>8 1/2"</td> <td>LC011</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -C-	PART No	8 1/2"	LC011																		
DIM -C-	PART No																						
8 1/2"	LC011																						
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DIM -D-	PART No																						
10"	LC020																						

(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAX. (WITH TAPE JOINTS BOTH ENDS; GRG ONLY).

(3) SEE PAGE 4-A FOR TYPICAL INSTALLATION AND ATTACHMENTS.

(2) END FLANGES ARE FOR PRODUCT SUPPORT AND MAY NOT BE EXACTLY AS SHOWN.

(4) LIGHT FIXTURES, BRACKETS ETC. ARE BY INSTALLER. ONLY TYPICAL INSTALLATION IS SHOWN.

(5) SEE GENERAL INFORMATION PAGE i.

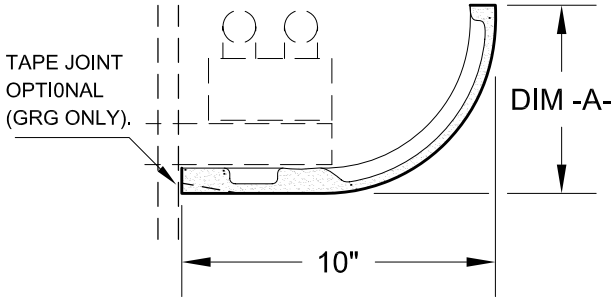
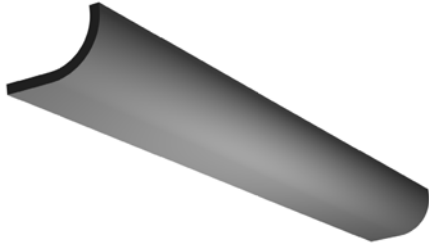
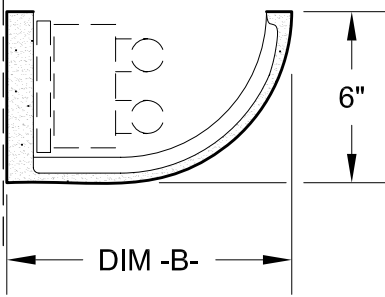
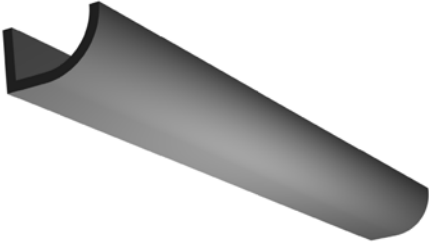
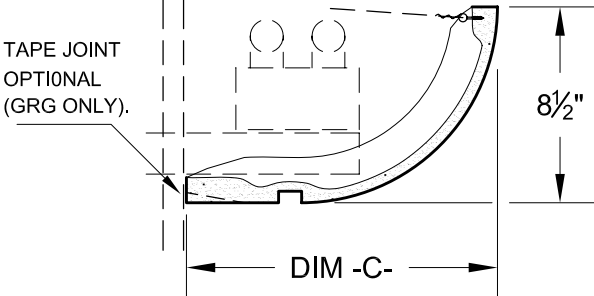
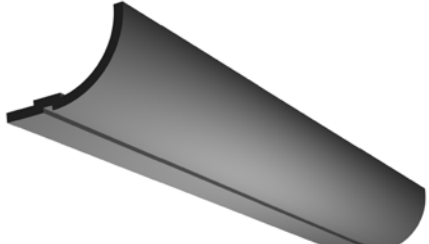
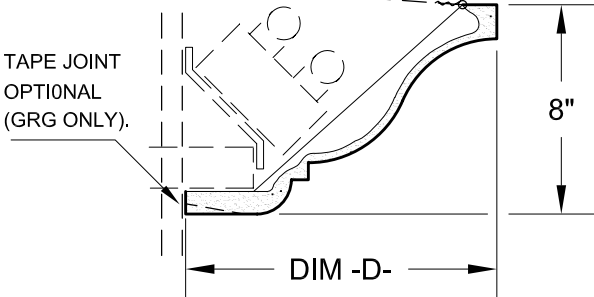
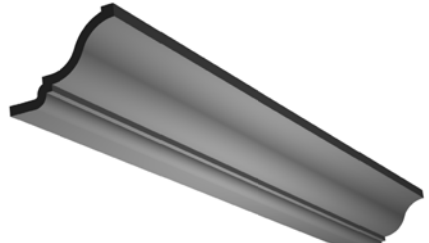
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Light Coves

	<table border="1"> <thead> <tr> <th>DIM -A-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>5"</td> <td>LC021</td> </tr> <tr> <td>6"</td> <td>LC022</td> </tr> <tr> <td>7"</td> <td>LC023</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DIM -A-	PART No	5"	LC021	6"	LC022	7"	LC023											
DIM -A-	PART No																			
5"	LC021																			
6"	LC022																			
7"	LC023																			
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DIM -B-	PART No																			
9"	LC025																			
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DIM -C-	PART No																			
12"	LC031																			
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DIM -D-	PART No																			
12"	LC040																			

(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAX. (WITH TAPE JOINTS BOTH ENDS; GRG ONLY).

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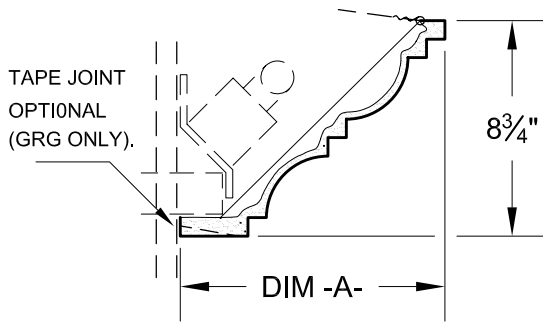
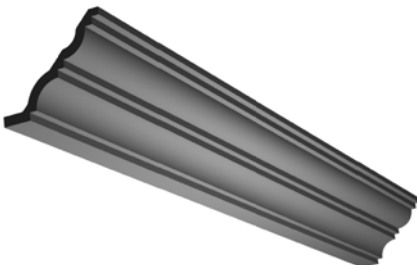
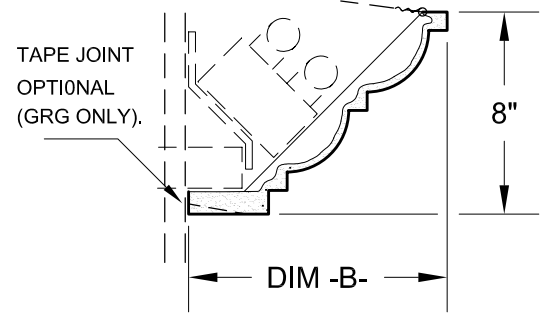
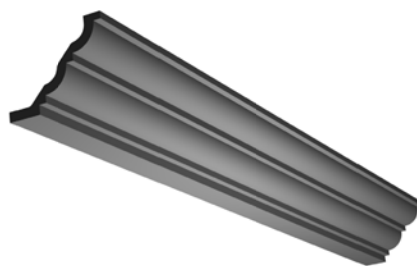
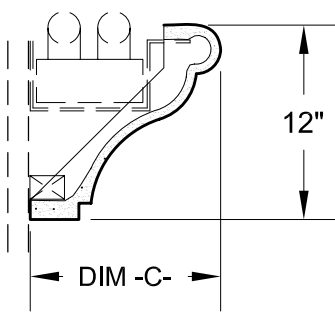
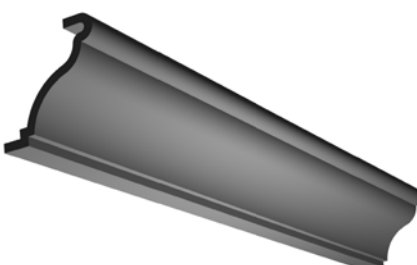
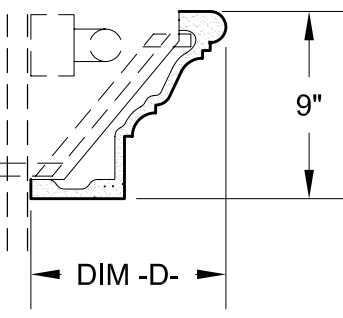
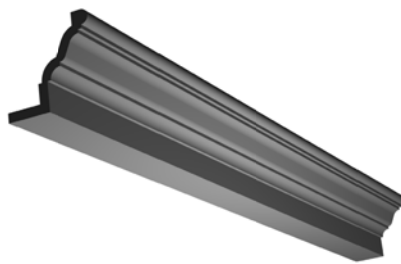
(5) SEE GENERAL INFORMATION PAGE i.

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Decoform

Light Coves

 <p>TAPE JOINT OPTIONAL (GRG ONLY).</p> <p>DIM -A-</p> <p>8 3/4"</p> 	<table border="1"> <thead> <tr> <th>DIM -A-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>LC061</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -A-	PART No	12"	LC061																		
DIM -A-	PART No																						
12"	LC061																						
 <p>TAPE JOINT OPTIONAL (GRG ONLY).</p> <p>DIM -B-</p> <p>8"</p> 	<table border="1"> <thead> <tr> <th>DIM -B-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>LC071</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -B-	PART No	12"	LC071																		
DIM -B-	PART No																						
12"	LC071																						
 <p>DIM -C-</p> <p>12"</p> 	<table border="1"> <thead> <tr> <th>DIM -C-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>11 3/4"</td> <td>LC241</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -C-	PART No	11 3/4"	LC241																		
DIM -C-	PART No																						
11 3/4"	LC241																						
 <p>DIM -D-</p> <p>9"</p> 	<table border="1"> <thead> <tr> <th>DIM -D-</th> <th>PART No</th> </tr> </thead> <tbody> <tr> <td>12 1/2"</td> <td>LC250</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DIM -D-	PART No	12 1/2"	LC250																		
DIM -D-	PART No																						
12 1/2"	LC250																						

(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAX. (WITH TAPE JOINTS BOTH ENDS; GRG ONLY).

(2) END FLANGES ARE FOR PRODUCT SUPPORT AND MAY NOT BE EXACTLY AS SHOWN.

(3) SEE PAGE 4-A FOR TYPICAL INSTALLATION AND ATTACHMENTS.

(4) LIGHT FIXTURES, BRACKETS ETC. ARE BY INSTALLER. ONLY TYPICAL INSTALLATION SHOWN.

(5) SEE GENERAL INFORMATION PAGE I.

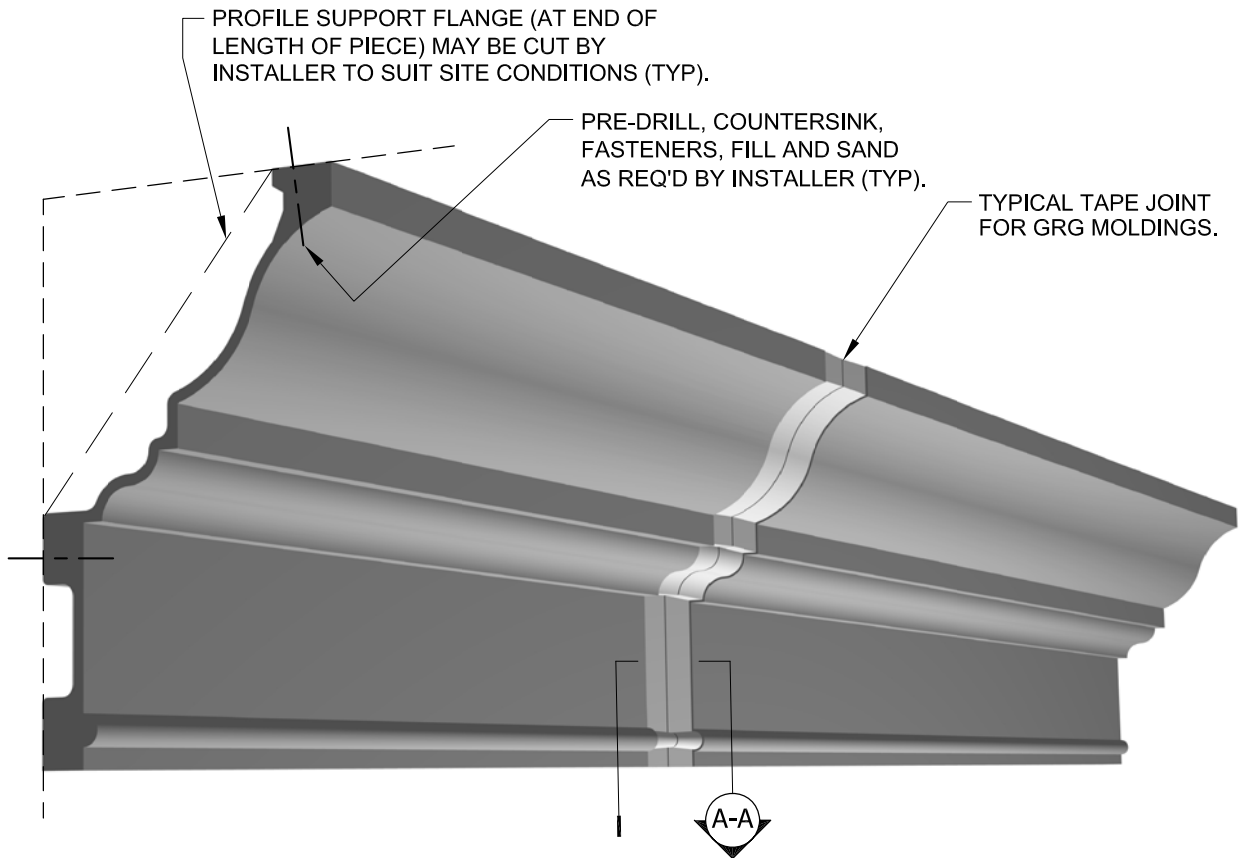
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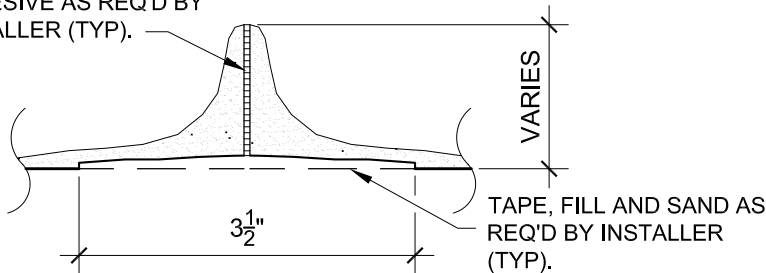
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Light Coves



CONSTRUCTION ADHESIVE AS REQ'D BY INSTALLER (TYP).



SECTION A-A

NOTES:

- (1) MOLDINGS CAN BE SUPPLIED IN GRG, GRC, FRP AND FRP SANDSCAPE.
- (2) GRG IS FOR INTERIOR USE ONLY.
- (3) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (4) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, TAPE & JOINT COMPOUND TO BE SUPPLIED BY OTHERS.
- (5) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.
- (6) PREMOLDED CORNERS ARE AVAILABLE.

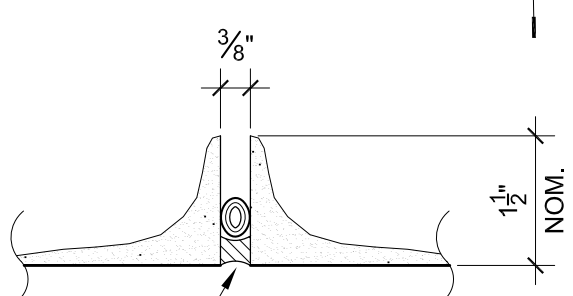
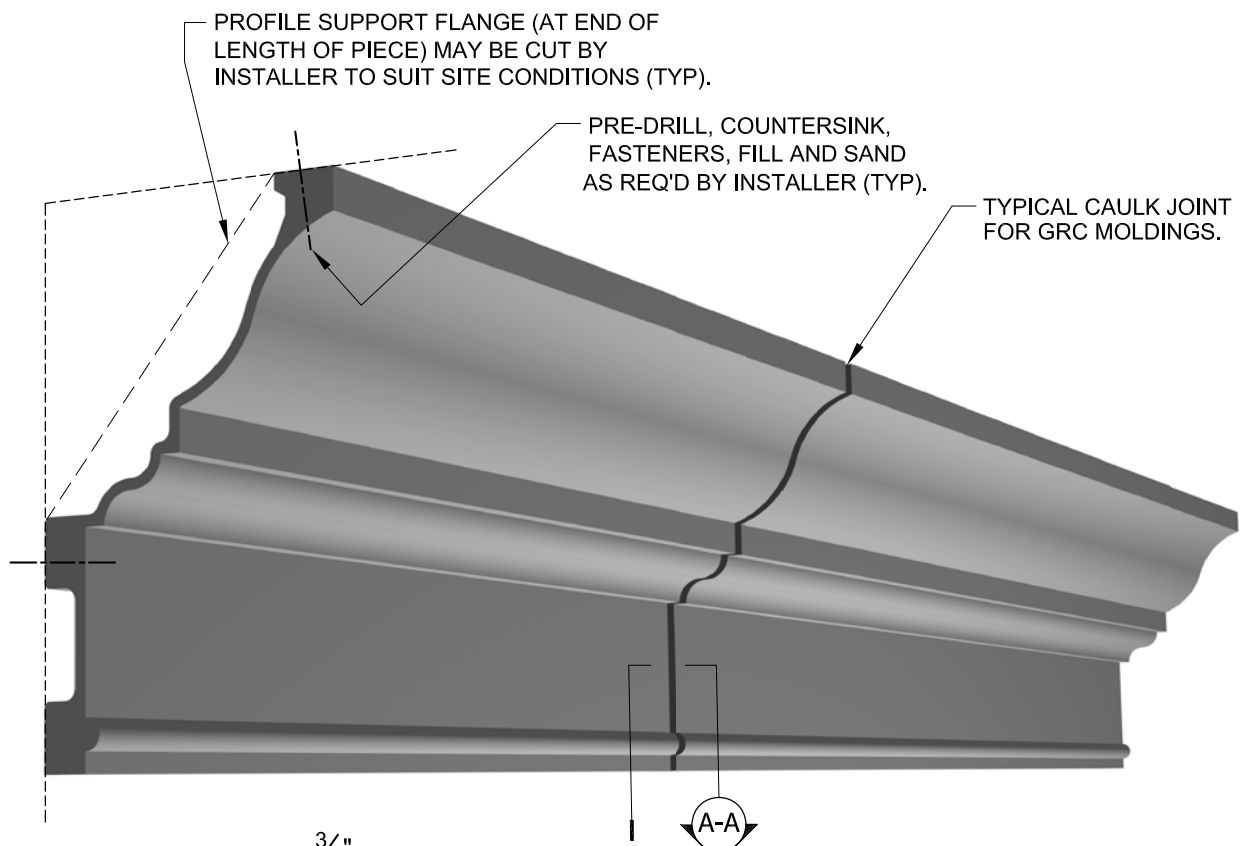
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Typical Installation
 For GRG Moldings



LOW MODULUS CAULKING
W/ BACKER ROD AS REQ'D
BY INSTALLER (TYP).

SECTION A-A

NOTES:

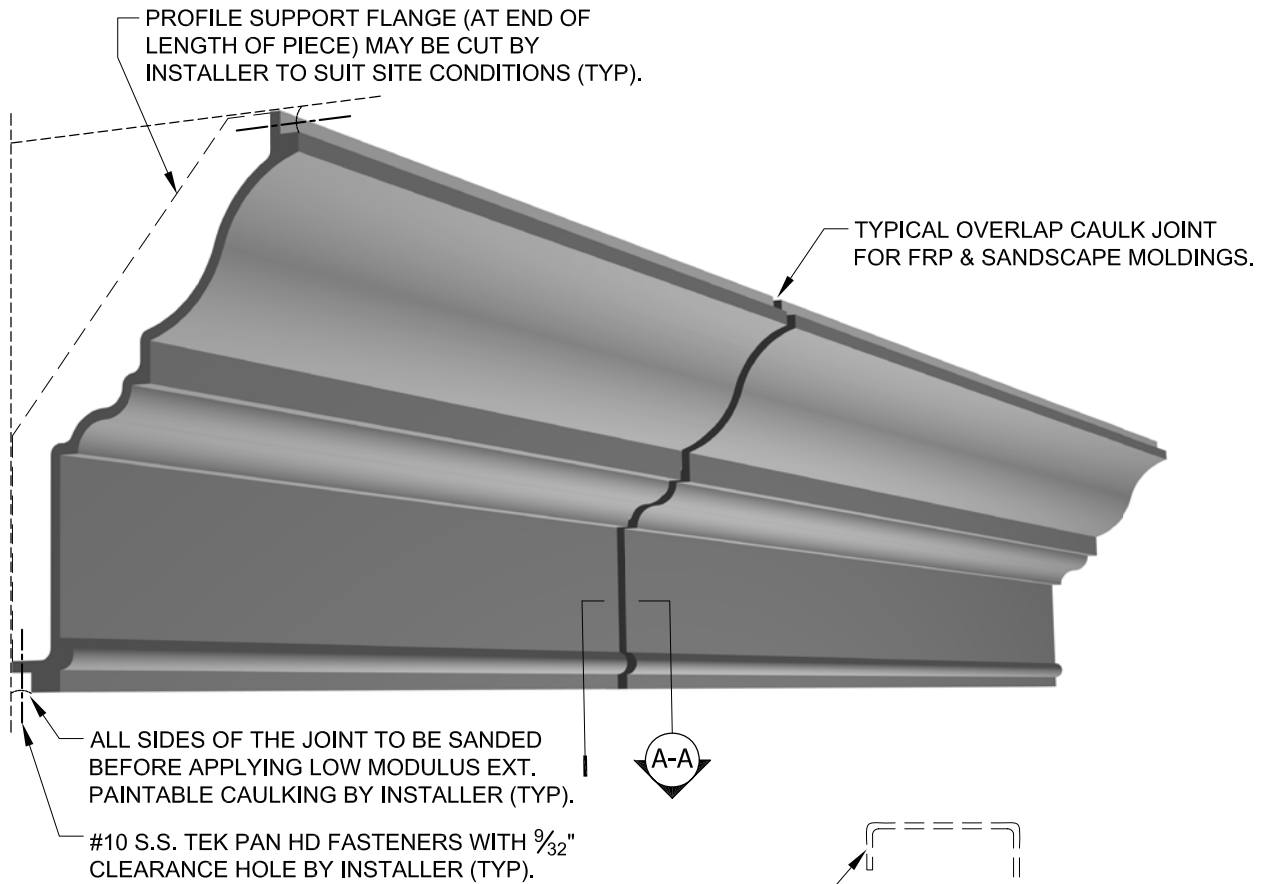
- (1) MOLDINGS CAN BE SUPPLIED IN GRG, GRC, FRP AND FRP SANDSCAPE.
- (2) GRG IS FOR INTERIOR USE ONLY.
- (3) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (4) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, TAPE & JOINT COMPOUND TO BE SUPPLIED BY OTHERS.
- (5) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.
- (6) PREMOLDED CORNERS ARE AVAILABLE.

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Typical Installation
For GRC Moldings



ALL STRUCTURAL STEEL, FRAMING, BLOCKING, SHIMS AND FASTENERS AS REQ'D BY OTHERS.

#10 S.S. TEK PAN HD FASTENERS WITH 9/32" CLEARANCE HOLE BY INSTALLER.

1/8" NEOPRENE SHIM OR EQUIVALENT BY INSTALLER.

1/16" x 5/8" Lg. NEOPRENE SHIM BY INSTALLER.

THIS SIDE TO BE FASTENED FIRST.

ALL SIDES OF THE JOINT TO BE SANDED BEFORE APPLYING LOW MODULUS EXT. PAINTABLE CAULKING BY INSTALLER.

SECTION A-A

NOTES:

- (1) MOLDINGS CAN BE SUPPLIED IN GRG, GRC, FRP AND FRP SANDSCAPE.
- (2) GRG IS FOR INTERIOR USE ONLY.
- (3) FASTENING METHODS SHOWN ARE TYPICAL ONLY, LOCAL CODE REQUIREMENTS AND JOB CONDITIONS MUST BE VERIFIED.
- (4) INSTALLATION HARDWARE INCLUDING BRACES, STUDS, FASTENERS, SHIMS, TAPE & JOINT COMPOUND TO BE SUPPLIED BY OTHERS.
- (5) FULL MATERIAL SPECIFICATION IS AVAILABLE ON REQUEST.
- (6) PREMOLDED CORNERS ARE AVAILABLE.

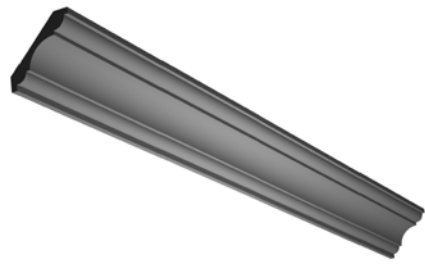
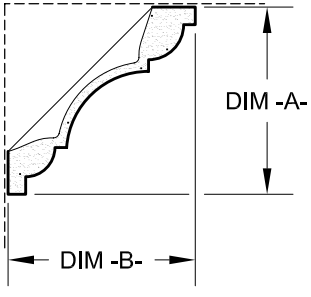
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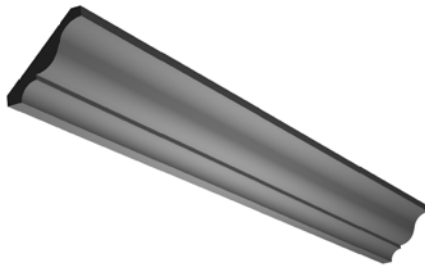
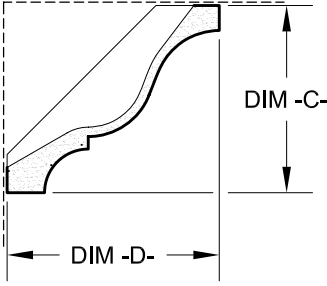
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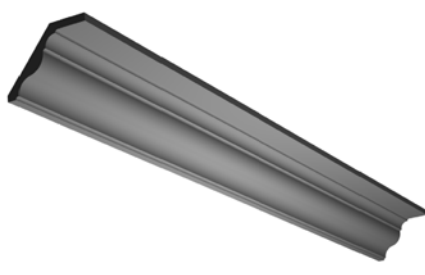
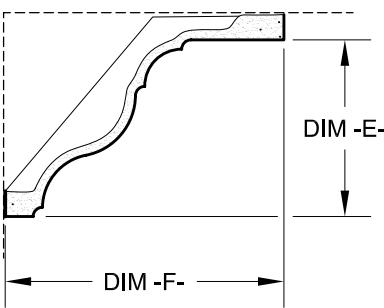
Typical Installation
 For FRP and SANDSCAPE Moldings



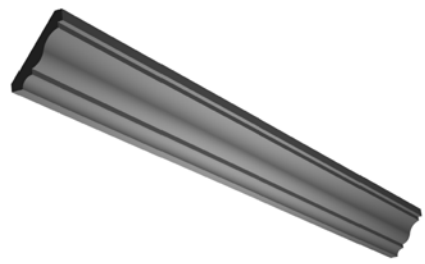
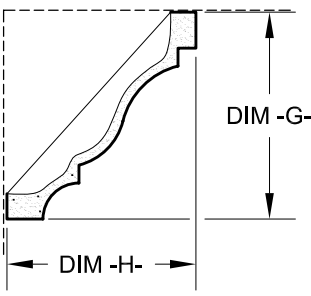
DIM -A-	DIM -B-	PART No
6"	6"	ML010
8"	8"	ML011



DIM -C-	DIM -D-	PART No
7"	8"	ML022



DIM -E-	DIM -F-	PART No
4 3/4"	7 1/2"	ML031



DIM -G-	DIM -H-	PART No
11 1/2"	10 1/2"	ML041

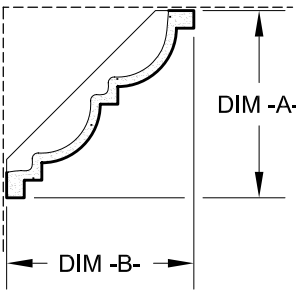
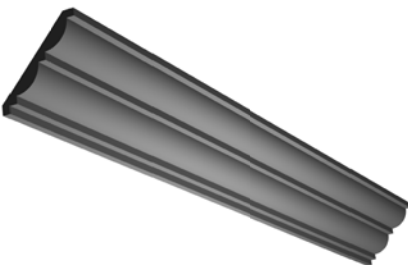
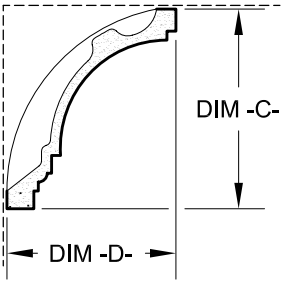
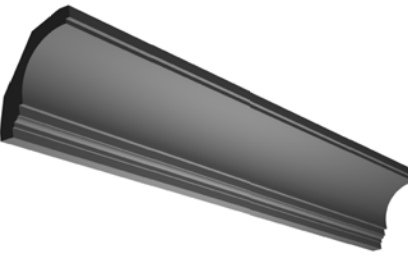
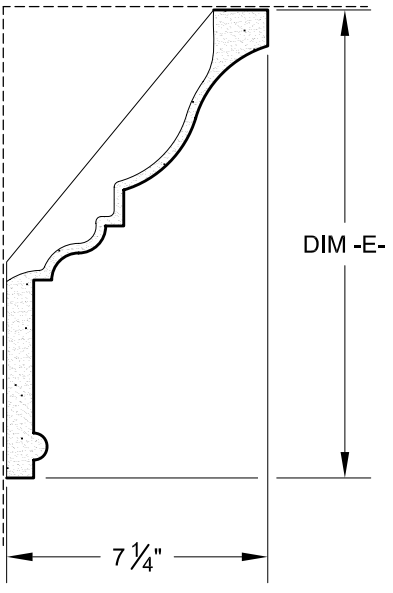
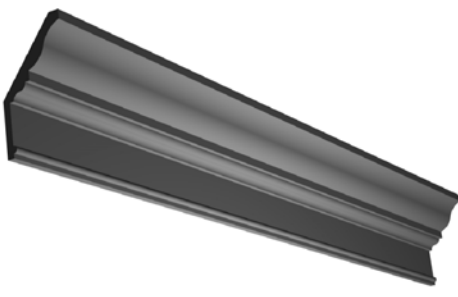
(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAX. (WITH TAPE JOINTS BOTH ENDS; GRG ONLY).
 (2) END FLANGES ARE FOR PRODUCT SUPPORT AND MAY NOT BE EXACTLY AS SHOWN.
 N.T.S.

(3) SEE PAGES 5-A TO 5-A.2 FOR TYPICAL INSTALLATION AND ATTACHMENTS.
 (4) DETAIL DIMENSIONAL DRAWINGS ARE AVAILABLE ON REQUEST.
 (5) SEE GENERAL INFORMATION PAGE i.

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Moldings

 	DIM -A-	DIM -B-	PART No
	8"	8"	ML050
 	DIM -C-	DIM -D-	PART No
	11 1/4"	9 1/4"	ML110
 	DIM -E-		PART No
	12"		ML090

(1) SHIPPED IN STRAIGHT LENGTHS OF 8'-0" MAX. (WITH TAPE JOINTS BOTH ENDS; GRG ONLY).

(2) END FLANGES ARE FOR PRODUCT SUPPORT AND MAY NOT BE EXACTLY AS SHOWN.

N.T.S.

(3) SEE PAGES 5-A TO 5-A.2 FOR TYPICAL INSTALLATION AND ATTACHMENTS.

(4) DETAIL DIMENSIONAL DRAWINGS ARE AVAILABLE ON REQUEST.

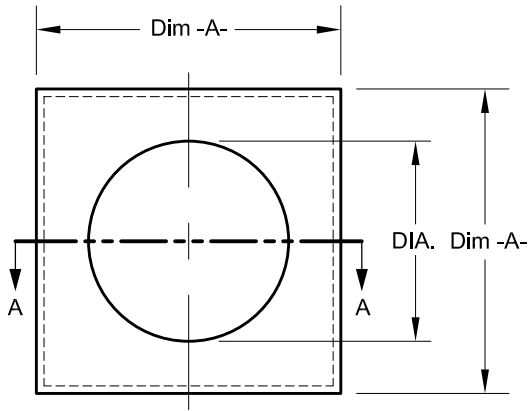
(5) SEE GENERAL INFORMATION PAGE i.

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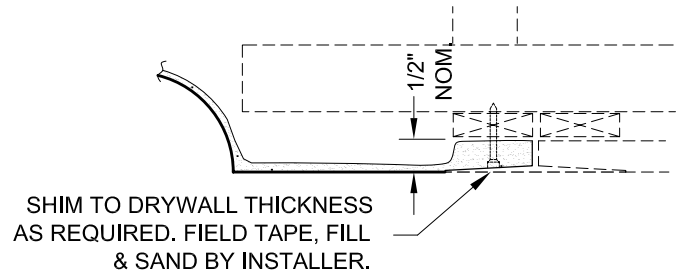
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Moldings

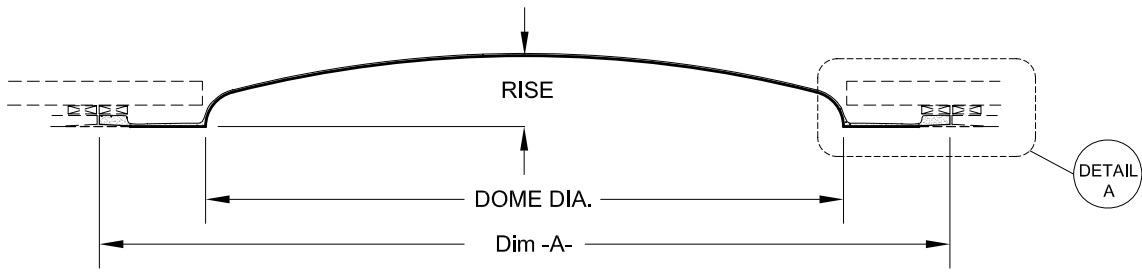


DOME REFLECTED PLAN

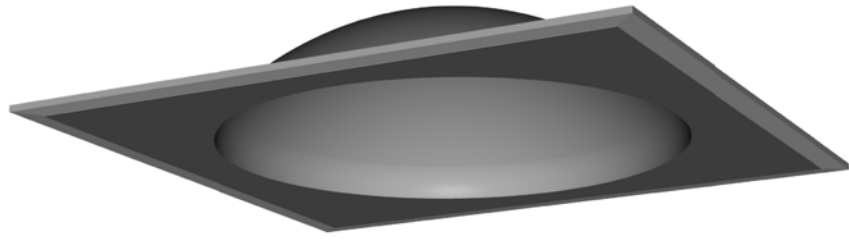


SHIM TO DRYWALL THICKNESS AS REQUIRED. FIELD TAPE, FILL & SAND BY INSTALLER.

DETAIL A



SECTION A-A THROUGH PLAIN DOME



DOME SHADED PERSPECTIVE VIEW

(1) SUPPORTING METHOD WILL VARY WITH DIAMETER AND NUMBER OF PIECES. CONSULT WITH DECOFORM IF MORE DETAIL IS REQUIRED.

(2) DOMES ARE SHIPPED IN VARYING NUMBER OF PIECES DEPENDING UPON DIAMETER.

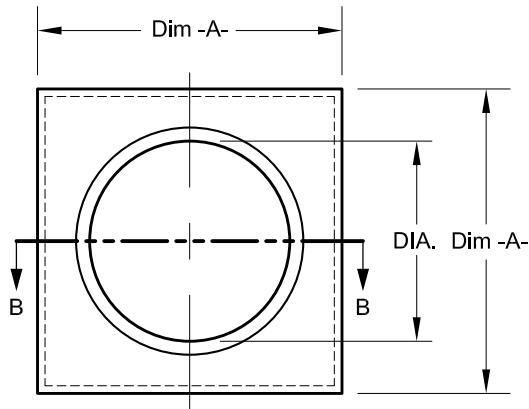
(3) SEE GENERAL INFORMATION PAGE i.

N.T.S.

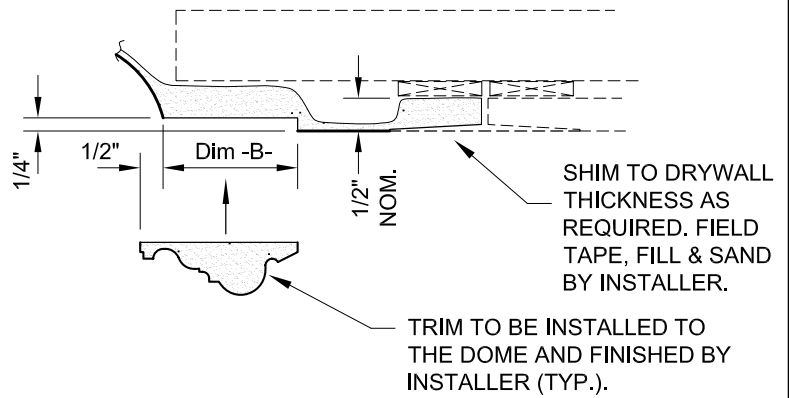
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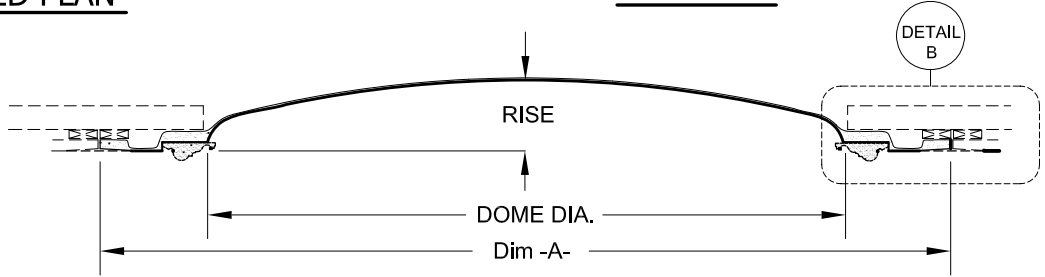
Domes



DOME REFLECTED PLAN

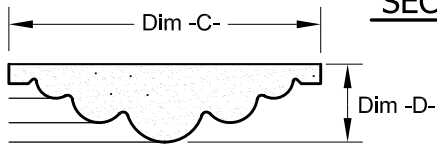


DETAIL B

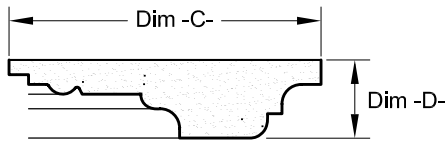


SECTION B-B THROUGH DOME WITH DECORATIVE TRIM

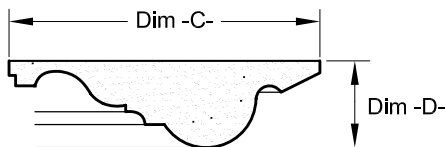
SEE BELOW FOR TRIM OPTIONS



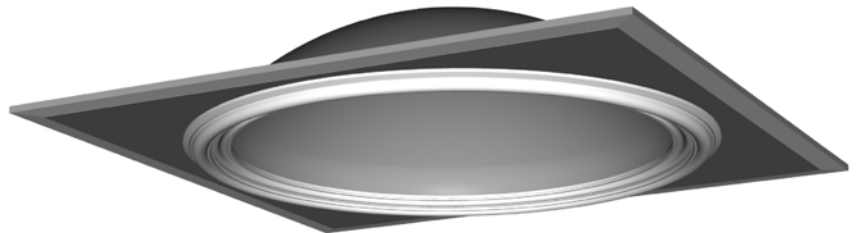
TRIM, TYPE "L"



TRIM, TYPE "M"



TRIM, TYPE "N"



DOME SHADED PERSPECTIVE VIEW

(1) SUPPORTING METHOD WILL VARY WITH DIAMETER AND NUMBER OF PIECES. CONSULT WITH DECOFORM IF MORE DETAIL IS REQUIRED.

(2) DOMES ARE SHIPPED IN VARYING NUMBER OF PIECES DEPENDING UPON DIAMETER.

(3) SEE GENERAL INFORMATION PAGE I.

(4) TRIM KITS ARE SUPPLIED WITH ANY REQUIRED SIZE.

N.T.S.

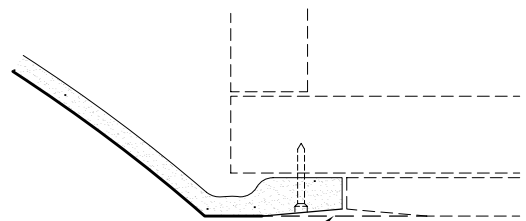
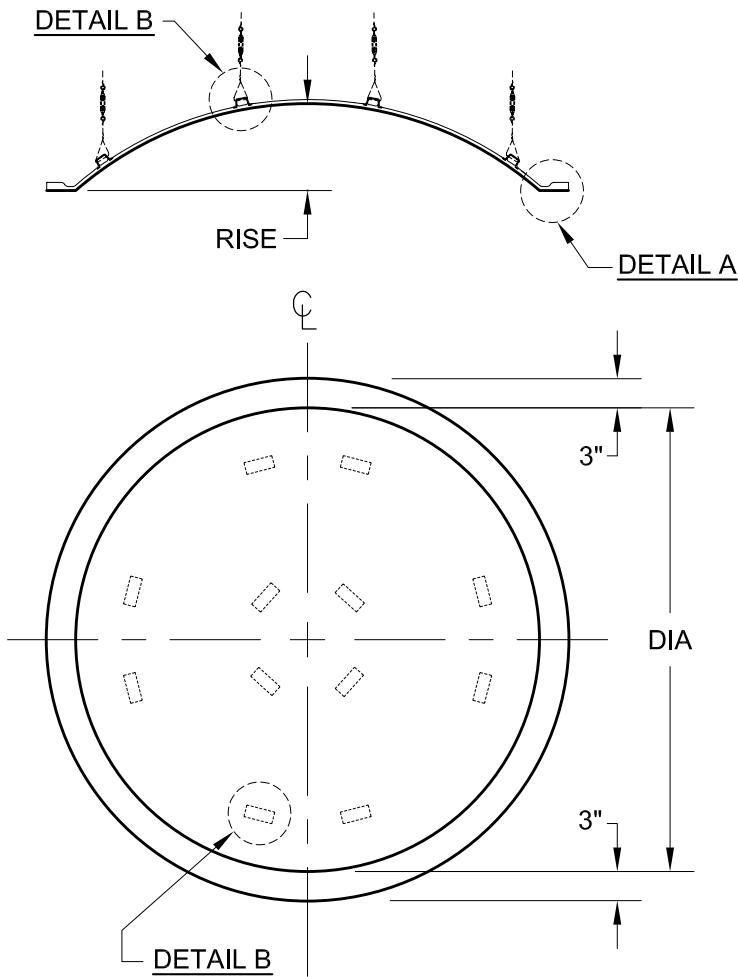
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**Domes
and Trim Options**

DIA	RISE	No OF PIECES	PART No
3'-0"	7"	1	DM8454
4'-0"	9"	1	DM1004
5'-0"	12"	1	DM3222
5'-0"	18"	1	DM7227
6'-0"	15"	4	DM1006
6'-11 3/4"	14 3/8"	4	DM5164
8'-0"	16"	4	DM7111
9'-0"	21"	4	DM1009
10'-0"	18"	6	DM6262
11'-6"	9 3/16"	6	DM7272
11'-10"	34"	6	DM6350
14'-0"	84"	8	DM7100

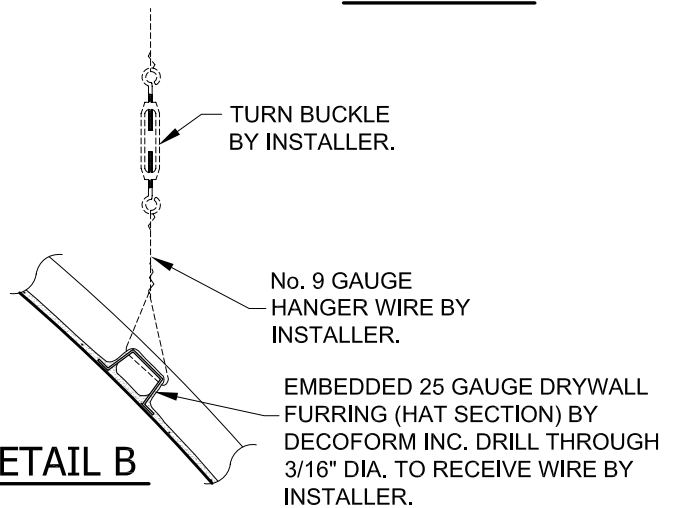


TAPE JOINT (GRG ONLY)
CONSULT WITH DECOFORM
FOR DETAILS WHEN USING
OTHER MATERIALS.

DETAIL A



DOME SHADED PERSPECTIVE VIEW



DETAIL B

(1) SUPPORTING METHOD WILL VARY WITH DIAMETER AND NUMBER OF PIECES. CONSULT WITH DECOFORM IF MORE DETAIL IS REQUIRED.

(3) STANDARD DOMES ARE SHIPPED IN VARYING NUMBER OF PIECES DEPENDING UPON DIAMETER (SEE CHART ABOVE).

(2) NUMBER OF HANGERS (DETAIL B) WILL VARY WITH SIZE OF DOME

(4) SEE GENERAL INFORMATION PAGE i.

N.T.S.

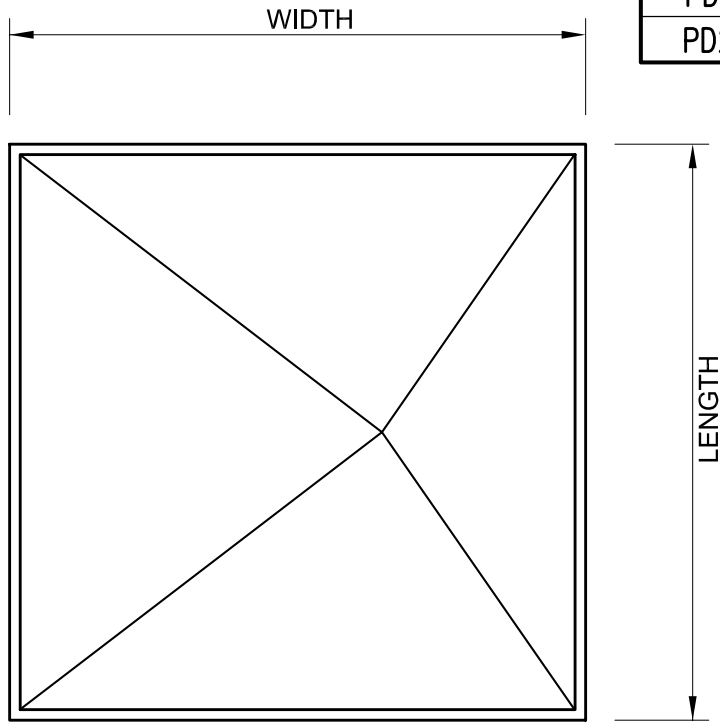
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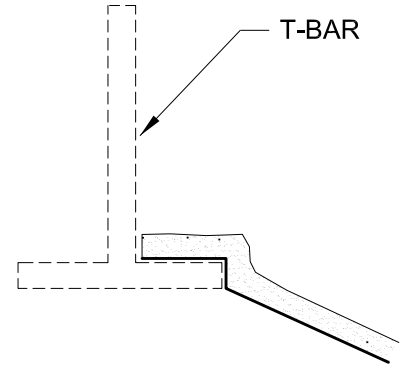
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Domes

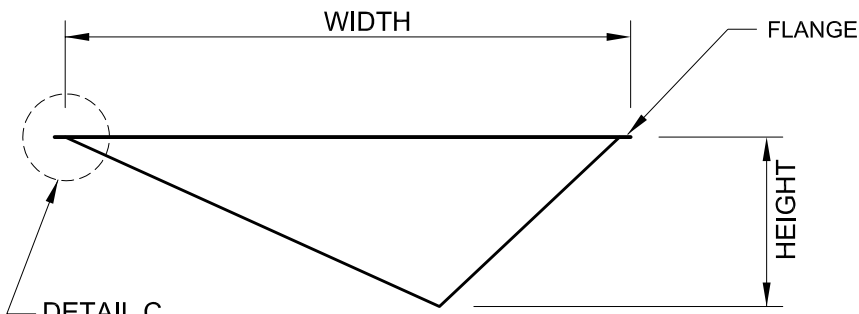
PART NO.	LENGTH	WIDTH	HEIGHT
PD4848 G	47 ½"	47 ½"	11 ¼"
PD2424 G	23 ½"	23 ½"	8"
PD4848 F	47 ½"	47 ½"	11 ¼"
PD2424 F	23 ½"	23 ½"	8"



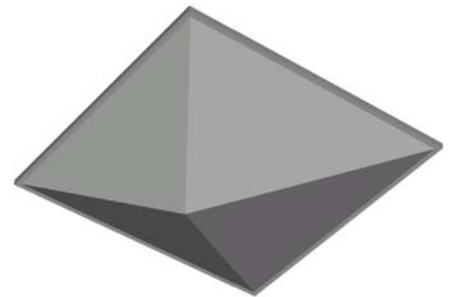
DETAIL A



DETAIL C



DETAIL B



PYRAMID DIFFUSER
SHADED PERSPECTIVE VIEW

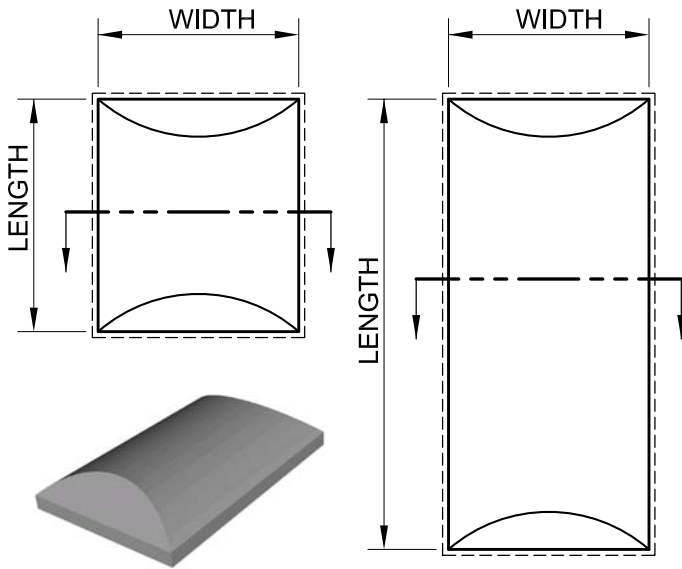
(1) AVAILABLE IN FIBERGLASS AND GRG ONLY
(2) ADD SUFFIX FOR MATERIAL: F-FOR FRP, G-FOR GRG

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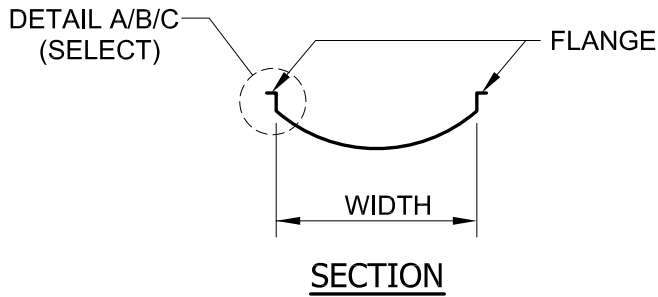


Pyramid Diffusers

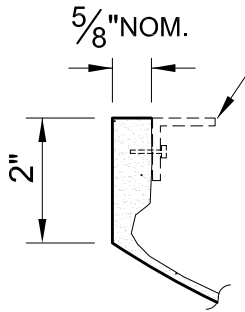


DOMES DIFFUSER

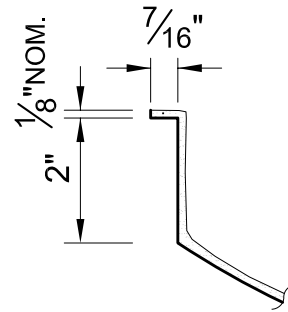
SHADED PERSPECTIVE VIEW



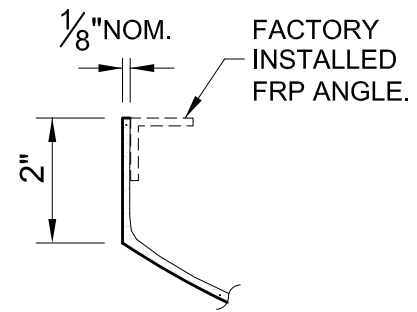
PART NO.	W	L	PART NO.	W	L
DD1848 A	17"	47"	DD3672 A	35¼"	71"
DD1848 B	17"	47"	DD3672 B	35¼"	71"
DD1848 C	17"	47"	DD3672 C	35¼"	71"
DD2448 A	23"	47"	DD4848 A	47"	47"
*DD2448 B	23"	47"	*DD4848 B	47"	47"
DD2448 C	23"	47"	DD4848 C	47"	47"
DD2472 A	23½"	71"	DD4872 A	47"	71"
DD2472 B	23½"	71"	DD4872 B	47"	71"
DD2472 C	23½"	71"	DD4872 C	47"	71"
DD2496 A	23½"	95"	DD4896 A	47"	95"
DD2496 B	23½"	95"	DD4896 B	47"	95"
DD2496 C	23½"	95"	DD4896 C	47"	95"
DD3096 A	29½"	95"	DD6036 A	59"	35"
DD3096 B	29½"	95"	DD6036 B	59"	35"
DD3096 C	29½"	95"	DD6036 C	59"	35"
DD3696 A	34"	95"	DD7236 A	71"	35"
DD3696 B	34"	95"	DD7236 B	71"	35"
DD3696 C	34"	95"	DD7236 C	71"	35"
DD3660 A	35"	59"	DD7248 A	71"	47"
DD3660 B	35"	59"	DD7248 B	71"	47"
DD3660 C	35"	59"	DD7248 C	71"	47"



GRG FLANGE
DETAIL A
(SELECT)



FRP FLANGE
DETAIL B
(SELECT)



FRP FLANGE
DETAIL C
(SELECT)

(1) * FITS STANDARD 1" T-BAR GRID

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Dome Diffusers

A Guide to Material Selection

DecoForm manufactures quality, molded, interior and exterior architectural components. Any project involving repetitive, linear or modular shapes are prime candidates. DecoForm products are used primarily for:

Bulkheads	Coves	Capitals and Bases
Light Coves	Ceiling Coffers	Pediments
Column Covers	Pilasters	Cornices
Wall Panels	Chair Rails	Brackets
Domes	Vaults	

Dramatic savings in site labor can often be realized and superstructure requirements reduced as the result of the use of pre-molded shapes.

DecoForm offers products in four different materials:

GRG (Glassfiber Reinforced Gypsum) (Spec. Section 09540)

GRC (Glassfiber Reinforced Cement) (Spec. Section 03500)

FRP (Fiberglass Reinforced Polyester) (Spec. Section 06600)

SandScape™ (FRP faux sandstone/limestone) (Spec. Section 06600)

Selection Criteria

- (1) Is the product to be used outside or inside?
 - GRG products are for interior use only.
 - GRC, FRP and SandScape™ products are for interior or exterior.

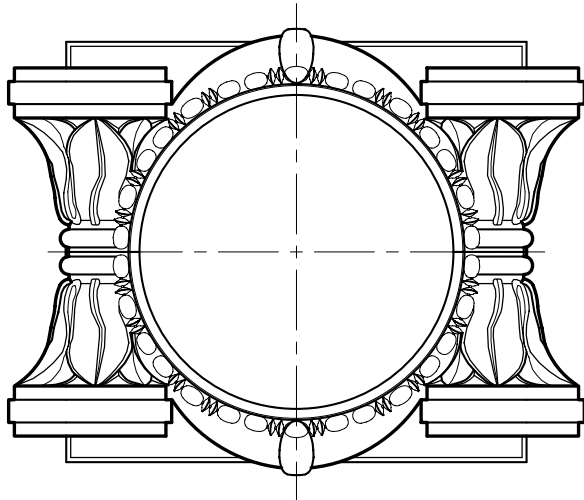
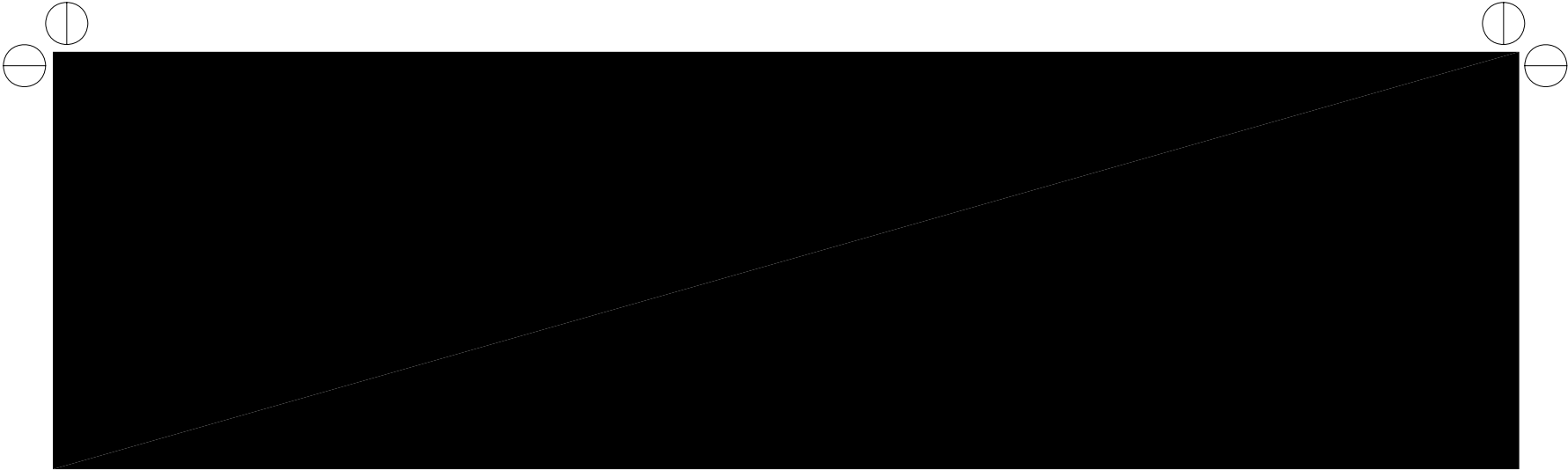
- (2) Is the desired product to be site painted or is it to be pre-finished?
 - GRG requires site finishing (usually prime and paint).
 - GRC requires site finishing. Breathable primer & paint is required.
 - FRP can be supplied pre-finished or paint ready (depending on budget and design criteria). A factory gloss finish is available on request and at a premium.
 - SandScape™ is pre-finished.

- (3) Budget Considerations
 - GRG is the least expensive followed by GRC, FRP and SandScape™ respectively, assuming the same scope and shape.

- (4) Fire Code Consideration

All DecoForm products/materials listed herein are available to suit a Class 1 designation.

DecoForm offers complete specification and design assistance.



Presenterd By:

DecoForm Inc.
Decoform
Molded Architectural Products

49 Sheffield Street
Toronto, ON, Canada M6M 3E5
E-mail: sales@decoform.com
www.decoform.com

Phone: (416) 745 - 4970
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CAT #DF101

An Introduction to:

Decoform Inc.

90 Milvan Drive,
Toronto, Ontario M9L 1Z6

DecoForm manufactures quality, molded, interior and exterior architectural components. Any project involving repetitive linear or modular shapes are prime candidates. DecoForm products are used primarily for:

Column Covers	Light Reflectors
Cornice	Light Coves
Bulkheads	Pediments
Capitals and Bases	Pilasters, Brackets
Ceiling coffers, Domes and Vaults	Wall Coverings

DecoForm offers products in three different materials:	Spec. Section:	<u>Applications:</u>
GRG (Glassfiber Reinforced Gypsum)	09540	Interior
GRC (Glassfiber Reinforced Cement)	03540	Interior/Exterior
FRP (Glassfiber Reinforced Polyester)	06600	Interior/Exterior

Selection Criteria:

(1) Is the desired product to be site painted or is it pre-finished?

GRG requires site finishing, usually prime & finish paint.

GRC requires site finishing. breathable primer & paint required

FRP can be supplied pre-finished or paint ready (depending on budget and design criteria). A factory gloss finish is available on request and at a premium.

(2) Budget Considerations:

GRG is least expensive, followed by GRC & FRP assuming the same shape and scope.

(3) Fire Code consideration:

All DecoForm products are manufactured with a Class 1 (Class A) designation (unless otherwise specified).

Contact us at:

DecoForm Inc.

Telephone: 416 745-4970

Website: www.decoform.com

Contact: Wally Omran (Ext. 204)

Fax: (416) 745-6636

E-mail: sales@decoform.com

E-mail: wally@decoform.com



Company Information

DecoForm Inc., is a premier manufacturer of high quality molded architectural products for commercial construction. Founded in 1991, DecoForm has successfully completed projects across North America and offshore that range from small and simple to very large and highly complex. DecoForm's many awards for excellence are a testimony to a dedicated staff with strength in architecture, design, manufacturing and construction.

DecoForm manufactures interior and exterior products in various materials and finishes. Projects with repetitive or modular shapes are prime candidates. Dramatic savings in site labor can often be realized and superstructure requirements reduced as the result of using pre-molded shapes.

DecoForm offers products in four different materials:

1. GRG [Glassfiber Reinforced Gypsum] Master specification 09 27 00
2. GRC [Glassfiber Reinforced Cement] Master specification 03 49 00
3. FRP [Glassfiber Reinforced Plastic] Master specification 06 60 00
4. SandScape™ [FRP faux sandstone / limestone] Master specification 06 60 00

Material Information

Specifications for all our products are available from the DecoForm website, DecoForm representatives or by contacting DecoForm directly.

If you require further information please contact us at:

DecoForm Inc.
49 Sheffield Street
Toronto, Ontario Canada M6M 3E5
Tel: (416)745-4970
Fax: (416) 745-6636
www.decoform.com

Our Shapes and Materials:

DecoForm manufactures shapes such as column covers in the four basic architectural styles, Tuscan, Doric, Ionic and Corinthian. We also provide bases and capitals to match each style.

Also manufactured are domed, vaulted and coffered ceiling modules along with the light coves and reflectors required to finish the job perfectly.

Cornices, signage, wall decorations and ornamental trim shapes are also part of our offerings.

Materials offered:

GRG (Glassfiber Reinforced Gypsum) Interior only product

DecoForm GRG is a high density gypsum matrix, skillfully reinforced with glassfibers and cast from specialty molds. The product is light weight (1.7 lbs/sq.ft.) and made with the industry standard 3/16" nominal thickness. Shapes can be made to almost any form, all of which are easily installed by Drywall trades people using the traditional tools. GRG requires site finishing (prime and paint).

GRC (Glassfiber Reinforced Cement) Interior / Exterior product

DecoForm GRC is a high density cementitious matrix reinforced with glassfibers and cast from specialty molds. Relatively lightweight at 2.9 lbs/sq.ft. this product has a 1/4" (3/8" nominal) minimum thickness. Shapes can be made to almost any form, all of which are easily installed by site trades people using the traditional tools and commonly available materials. GRC requires site finishing by priming and painting with *breathable paints*.

FRP (Glassfiber Reinforced Plastic) Interior / Exterior product

DecoForm FRP is a polymer matrix reinforced with glassfibers and cast from specialty molds. Light in weight at 1.65 lbs/sq.ft. and thin walled (1/8" shell thickness – 3/16" nominal) this durable extremely strong product can be molded into almost any shape. FRP is easy to install by site trades people and installation requires normal jobsite tools and materials. DecoForm FRP is available in a matte or gloss finish and shipped pre-colored or paint ready for site finish.

PART 1 - GENERAL**1.01 SUMMARY:**

- .01 Provide special glassfiber reinforced gypsum (GRG) shapes in accordance with the requirements of the contract documents.
- .02 The installing contractor shall be responsible for verifying that all required blocking is provided and installed in the correct locations for GRG component's proper installation.

1.02 WORK INCLUDED:

- .01 Supply of GRG units.
- .02 Erection / Installation.
- .03 Joint treatment.
- .04 Supply and installation of backup supports, shims, labor and materials, etc.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

- .01 Gypsum wallboard and joint treatment.
- .02 Metal framing and support systems.
- .03 Rough carpentry.
- .04 Lath and gypsum plaster
- .05 Finishes: Paint manufacturer shall recommend paint suitable for GRG surfaces.
- .06 Wall coverings

1.04 RELATED DOCUMENTS:

- .01 Glass Reinforced Gypsum - A Guide (Published by CISCA – Ceiling & Interior Systems Construction Association).
- .02 Recommended Specification: Levels of Gypsum Board Finish. See 3.03.14

1.05 QUALITY ASSURANCE:

- .01 Materials and work shall conform to the latest edition of reference specifications specified herein and to applicable codes and requirements of local authorities having jurisdiction.

1.06 QUALIFICATION:

- .01 The manufacturer of glassfiber reinforced gypsum work shall submit evidence of satisfactory projects it has achieved over the last 10 years.
- .02 The installer of the work specified herein shall be approved by the manufacturer of the specified material.
- .03 The installer of the work, with more than 5 years experience in the installation of glassfiber reinforced gypsum units, shall carry out the installation efficiently and cooperate fully with other trades.

1.07 CERTIFICATION/REFERENCES:

- .01 Submit manufacturer's product data, including copies of fire test reports.
- .02 Except as otherwise additionally indicated on the drawings or specified herein, the standards referred to below, shall apply to work under this section.
 - .1 ASTM A 370 Nail Pull Resistance
 - .2 ASTM C 11 Terminology
 - .3 ASTM C 472 Physical Testing of Gypsum
 - .4 ASTM C 473 Humidified Deflection
 - .5 ASTM C 473 Nail Pull Resistance
 - .6 ASTM C 947 Flexural Strength
 - .7 ASTM C 1355 Standard Specifications for GRG Composites
 - .8 ASTM D 256 Impact Resistance
 - .9 ASTM D 578 Specification of Glass Fibre Strands
 - .10 ASTM D 638 Ultimate Tensile Strength
 - .11 ASTM D 638 Young's Modulus
 - .12 ASTM D 638 Compressive Strength
 - .13 ASTM D 696 Coefficient of Linear Thermal Expansion
 - .14 ASTM D 790 Modulus of Elasticity in Flexural
 - .15 ASTM D 2583 Barcol Hardness
 - .16 ASTM E 84 Fuel Contribution
 - .17 ASTM E 84 Flame Spread Index,
 - .18 ASTM E 84 Smoke Developed Index
 - .19 ASTM E 136 Behaviour in Vertical Tube Furnace

1.08 DESCRIPTION OF WORK:

- .01 This specification is intended to outline the general requirements of the DecoForm (GRG) units as they pertain to the overall design of the project. The manufacturer's recommendations shall not govern the work in this section.
- .02 The installing contractor shall perform all work in this section, including installation, taping and patching and will assume responsibility for coordinating installation with gypsum wallboard work and associated trades.

1.09 DESIGN CRITERIA:

- .01 Unless stated on DecoForm drawings, fabrication tolerances are as indicated below.
 - .1 Dimensional - all directions (0' - 10') ± 1/8" (3.2mm)
 - .2 Dimensional - all directions (10' -20') ± 3/16" (4.8mm)
 - .3 Straightness along an edge or surface ± 1/8"/linear ft.
 - .4 All reveals, setbacks or returns 5° draft
 - .5 All corners 1/16" - 1/8" radius

1.10 SAMPLES:

- .01 Submit duplicate min. 6" x 6" glassfiber reinforced gypsum samples.

1.11 SHOP DRAWINGS:

- .01 Submit for approval, shop drawings of units which show sections, details, joint treatment and the relation of the GRG units to adjoining components.

1.12 SCHEDULING:

- .01 Special scheduling for site coordination must be specified at time of bidding.

1.13 DELIVERY, STORAGE AND HANDLING:

- .01 Units shall be handled and transported per manufacturer's recommendation, in a manner so as not to create damage or excessive stresses.
- .02 GRG units shall be stored level on a clean dry surface in an area protected from weather, moisture and damage. The units shall not be stacked or leaned unless instructed otherwise by the manufacturer.
- .03 Environmental Limitations: Do not deliver or install glassfiber reinforced gypsum components until building is enclosed, wet-work is complete and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

1.14 WARRANTY:

- .01 The manufacturer warrants that the delivered material supplied will conform to sample and to specifications and will be free from defects in workmanship or material under normal use and conditions for a period of One year from date of shipment. Should defects, attributable to the manufacturer, appear within one year of the date of shipment, the manufacturer has the option of replacing or repairing the defective material.
- .02 Limitations: The aforementioned general warranty is exclusive. All other warranties whether expressed or implied or arising by operation of law, usage of trade, course of dealings or otherwise, are excluded. The only warranties are those expressed above. The manufacturer shall not be liable for any penalty or for any loss or damages associated with the removal or installation of its product or claims of third parties against the Purchaser.

PART 2 - PRODUCTS**2.01 MANUFACTURER:**

DecoForm Inc.
49 Sheffield
Toronto, Ontario
CANADA M6M 3E5
Phone: (416) 745-4970
FAX: (416) 745-6636
E-mail: sales@decoform.com website: www.decoform.com

2.02 MATERIALS:

- .01 Glassfiber reinforced gypsum (GRG) fabrication: ASTM C 1355/C 1355M.
- .02 Gypsum: high density, free of asbestos and resins.
- .03 Water: potable
- .04 Glassfiber: continuous filament or random glassfiber mat.
- .05 Anchors and fasteners: Type 304 stainless steel where exposed; hot dip galvanized steel where unexposed.
- .06 Form stripping agent: colorless mineral oil, free of kerosene and must be compatible with and for application of sealant and applied finishes.
- .07 Units will be suitably reinforced with additional materials as required.

2.03 PHYSICAL PROPERTIES:

- | | | |
|---------------------------------|---------------|---|
| .01 Glass content | | 5 - 6% by weight |
| .02 Density | | 103 - 112 lb./cu. ft. |
| .03 Shell Thickness | | 3/16" nominal (1/8" minimum) |
| .04 Flame Spread Index | (ASTM E 84) | 0 (Class 1) (Class A) |
| .05 Fuel Contribution | (ASTM E 84) | 0 (Class 1) (Class A) |
| .06 Smoke Developed Index | (ASTM E 84) | 0 (5, water vapor) |
| .07 Compressive Strength | (ASTM C 472) | 11,289 phi (77.83 Mpa) (average) |
| .08 Flexural Strength (M.O.R.) | (ASTM C 947) | 3,084 psi (21.27 MPa) (mean value) |
| .09 Flexural Strength (P.E.L.) | (ASTM C 947) | 2,857 psi (19.70 MPa) (mean value) |
| .10 Ultimate Tensile Strength | (ASTM D 638) | 1,220 psi (8.41 MPa) (mean value) |
| .11 Compressive Strength | (ASTM D 638) | 5,790 psi (39.9 Mpa) (mean value) |
| .12 Impact Resistance | (ASTM D 256) | 7.88 ft.lb./in. (mean value) |
| .13 Barcol Hardness | (ASTM D 2583) | 75 avg. |
| .14 Consistency | | 25 - 30 c.c. |
| .15 Specific Heat | | 0.253 Btu/lb./°F |
| .16 Dielectric Strength | | same as air w/dry, conductive w/wet |
| .17 Coef. of Thermal Expansion | (ASTM D 696) | $(7.3 \times 10^{-6} \text{ in/in/}^\circ\text{F}) 13.1 \times 10^{-6} \text{ mm/}^\circ\text{C}$ |
| .18 Nail Pull (wood embedment) | (ASTM C 473) | 480 lbf. (min.) |
| .19 Nail Pull (metal embedment) | (ASTM A 370) | 590 lbf. (min.) |
| .20 Behaviour at 750EC | (ASTM E 136) | Passed |
| .21 Humidified Deflection | (ASTM C 473) | 3 mm. mid-point defl. (mean value) |
| .22 Young's Modulus | (ASTM D 638) | 2.08×10^6 (14,300 Mpa) |
| .23 Weight | | 1.7 lb/sq. ft. |

PART 3 - EXECUTION**3.01 EXAMINATION:**

- .01 Prior to the manufacture of components, the installer shall check all pertinent site dimensions and conditions against the manufacturer's drawings and relay discrepancies to the manufacturer for inclusion in the drawings.
- .02 Prior to installation, the installer shall compare job site dimensions and conditions against the Architect's drawings and shall report any discrepancies to the General Contractor and the Architect. Work shall not proceed until discrepancies are corrected.
- .03 Prior to installation, the installer shall examine pertinent job-site conditions to insure proper arrangement and fit of the work. Start of work implies acceptance of job-site conditions.
- .04 All surfaces or framing structures shall be plumb and true as required.

3.02 PREPARATION:

- .01 Examine the contract drawings and specifications in order to ensure the completeness of the work required under this section.
- .02 Verify measurements and dimensions at the job-site and cooperate in the coordination and scheduling of the work of this section with the work of related trades, with particular attention given to the installation of support items installed in drywall, so as not to delay job progress.

3.03 ERECTION:

- .01 Install work as indicated on drawings, as specified herein and in accordance with approved shop drawings and manufacturer's recommendations.
- .02 Provide all support framing/reinforcing/support brackets required for work of this section and to ensure solid and secure installation.
- .03 Provide temporary supports to maintain position as units are being installed. Use concealed shims where required for alignment.
- .04 Pre-drill fastener holes in GRG components. Clean fastener holes to remove dirt and oil.
- .05 Attach GRG components to framing and substrate with steel drill screws. Do not use pneumatic staple guns. Countersink screw heads below adjoining finished surface.
- .06 Fasten not less than 5/16" from edge or end.
- .07 Cover screw heads with joint compound to produce, smooth, flush and level surfaces.

3.03 ERECTION (Cont'd)

- .08 Immediately prior to installing each unit, "butter" the back of each unit with plaster as necessary. Press units tightly against backing and ensure that all voids between the back of each unit and the backing are completely filled. Immediately remove all excess plaster from affected surfaces.
- .09 GRG units shall be handled with care and lifted with appropriate equipment.
- .10 GRG units shall be installed true and plumb, shimmed where necessary.
- .11 Butt joints may be cemented together using "Liquid Nail" or equivalent.
- .12 Tape, float and sand joints where indicated and control joints shall be provided where required as specified under the gypsum drywall section of the specifications and as described in the U.S.G. Gypsum Construction Handbook, current edition.
- .13 Expansion joints shall be installed at a minimum of every 35 linear feet.
- .14 Reference the publication: "RECOMMENDED SPECIFICATION: LEVELS OF GYPSUM BOARD FINISH" which is endorsed by AWCI, PAINTING AND DECORATING CONTRACTORS OF AMERICA, GYPSUM ASSOCIATION and CISCA. Among other items this publication addresses such applications as:
 - critical lighting
 - joint photographing / telegraphing
 - primer / sealer
 - skim coat
 - spotting

3.04 TOLERANCES - ERECTED UNITS

- | | | |
|-----|---|--------------------|
| .01 | Face width of joint | ± 1/8" / (3.2 mm.) |
| .02 | Variation from plumb (in any dist. of 20' max.) | ± 1/8" / (3.2 mm.) |
| .03 | Variation from level (in any dist. of 20' max.) | ± 1/8" / (3.2 mm.) |
| .04 | Max. differential between adjacent units in erected position (non-cumulative) | ± 1/8" / (3.2 mm) |

3.05 PATCHING AND CLEANING:

- .01 Repair any defects found after the work of all trades has been completed, regardless of how, or whom, the damage was caused. Patching shall match the original work.
- .02 Patch all countersunk fasteners and damages to match unit's texture, finished flush with face of unit.

3.06 FINISHING:

- .01 DecoForm GRG requires site prime and paint. References shall be made to the painting/texturing section of the specifications listed in the project documents by the Architect.
- .02 The painting contractor shall comply with ASTM C-840 specifications, specifically with regard to sealing.

Decoform**Material Safety Data Sheet**

Section 1
Product and Company Information

PRODUCT NAME: **Glassfiber Reinforced Gypsum (GRG)**

PRODUCT USE: Architectural Decorations

MANUFACTURER: DecoForm Inc.
49 Sheffield Street
Toronto, ON
Canada M6M 3E5
Tel.: 416-745-4970
Fax: 416-745-6636

Section 2
Composition Information on Ingredients

CHEMICAL NAMES	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Glassfiber Mat	6	10	15	65997-17-3
Plaster of Paris	93 - 94	10	15	26499-65-0
Crystalline Silica	<1	0.05	0.1	14808-60-7

Section 3
Hazard Identification

EMERGENCY OVERVIEW

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat or upper respiratory tract. When mixed with water, this material hardens and becomes very hot – sometimes very quickly. DO NOT attempt to make a cast enclosing any part of the body using this material.

Section 4 First Aid Measures

FIRST AID PROCEDURES

Eyes: Flush thoroughly with water. If irritation persists, consult a physician.

Skin: Wash with mild soap and water. Commercially available hand lotion may be used to treat dry skin areas. If irritation persists consult a physician.

Inhalation: Remove to fresh air. Other measures are usually not necessary, however if conditions warrant consult a physician.

Ingestion: This product is not intended to be ingested or eaten. If gastric disturbance occurs, call a physician.

Section 5 Fire Fighting Measures

General Fire Hazards:	Not expected to burn
Unusual Fire & Explosion Hazards:	None
Hazardous Combustion Products:	
Plaster of Paris:	Above 1450° C – decomposes to calcium oxide (CaO) and sulfur dioxide (SO ₂)
Glass mat:	Primary decomposition products include hydrocarbons and water. Due to the low polyester content, the material should self extinguish when the heat source is removed.

Section 6 Accidental Release Measures

CONTAINMENT:

No special precautions.

CLEAN-UP:

Use normal clean up procedures.

DISPOSAL:

Follow local, state, provincial and federal regulations when disposing industrial waste. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Section 7
Handling and Storage

HANDLING:

Avoid dust contact with eyes. Wear appropriate eye protection against dust. Avoid breathing dust. Wear appropriate respiratory protection against dust in poorly ventilated areas. Use good safety and industrial hygiene practices.

STORAGE:

Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

Dew point conditions or other conditions causing the presence of liquid will harden this material during storage.

Section 8

The information contained herein is believed to be true and accurate but is not warranted To be, whether originating with DecoForm or not. Customers are advised to confirm that information is current, applicable and suitable to the circumstances.

DecoForm Inc. will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

Preparation Date: July 10, 2006 Issue: 1 Replaces Issue: Original

MANUFACTURER CERTIFICATION FOR LEED CREDIT

I, the manufacturer of _____ as specified in Master Specification Section Number _____

Do herein certify that:

1. The materials were manufactured at our plant in Toronto, Ontario, Canada.
2. The materials were extracted or harvested at the United States Gypsum Company (USG) in Norman, OK.
3. The manufactured product contains 0% Post Consumer recycled materials and 5% Pre Consumer recycled materials.
4. Product data submitted under separate cover.

DecoForm contributes to greener construction management by:

1. Using a single mould to **produce many** parts and **retooling** allows moulds to be **reused** for more than one project.
2. **Minimizing construction waste** with our pre-molded easy to install products.
3. Our glassfiber reinforced gypsum and cement (similar to concrete) can be **reused** as filler in many construction products.

Manufacturer: DecoForm Inc.

Certification by: _____

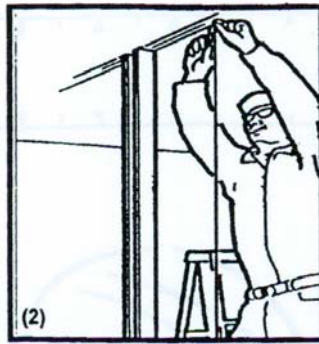
Date: _____

Name: Wally Omran

Title: President



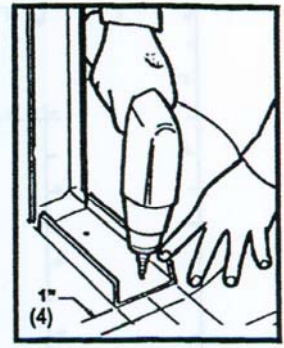
(1) Locate the center-line of the structural column and scribe a line on the floor on both sides which extend further than the dia. of the column cover.



(2) Use a plumb bob or laser to transfer center line onto ceiling.



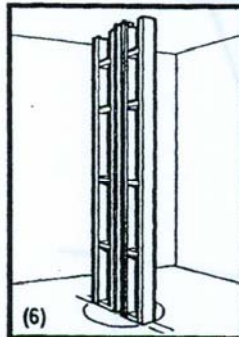
(3) Prepare a template with a cutout representing the outside diameter of the column cover and scribe a line on the floor and ceiling.



(4) Fasten framing to structural column on center-line and plumb.
Fasten framing on center-line 1" from circle scribed on floor.



(5) Locate and scribe center-line of structural column. Cut and instal studs to structural column.



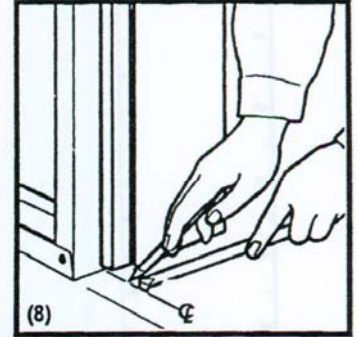
(6) Cut and instal cross-bracing @ 24" centers.

Insure that vertical framing does not bow and that skeleton is solid and plumb.

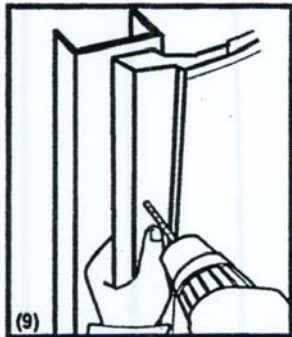


(7) Locate first column cover half and position over scribed circular line on floor. Shim at floor if necessary.

For ease of installation it is recommended that column covers penetrate the ceiling whenever possible.



(8) Place the half column cover with the outside diameter at the center-line.



(9) Drill pilot holes in center of flange on 16" centers starting at 5" from either end.

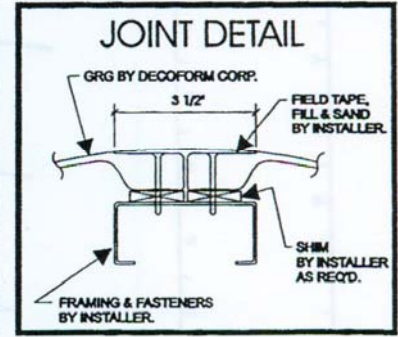


(10) Locate mating half column cover and position around skeleton against vertical stud. Shim at base to match first column cover half.



(11) Insure fit and fasten through column and into stud on 16" centers. Tape and float joints.

Sand smooth, prime and paint as required.



Decoform Inc.
Decoform
Molded Architectural Products

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www.decoform.com

Printed in Canada
Cat. #D1028

IN ADDITION TO GRG COLUMN COVERS DECOFORM MANUFACTURES UNLIMITED MOLDED ARCHITECTURAL PRODUCTS INCLUDING:

domes	niches
vaults	brackets
cornice	frieze
fascia	rosettes
soffit	piasters
medallions	moldings
pediments	wall surfaces
bulkheads	chair rails
sills	base boards

Our range of materials includes:

- GRG (Glassfiber Reinforced Gypsum)
- GRC (Glassfiber Reinforced Cement)
- FRP (Fiber Reinforced Polyester)

Decoform

PART 1 - GENERAL**1.01 SUMMARY:**

- .01 Provide special glassfiber reinforced cement (GRC) shapes in accordance with the requirements of the contract documents.
- .02 The installing contractor shall be responsible for verifying that all required blocking is provided and installed in the correct locations for GRC component's proper installation.

1.02 WORK INCLUDED

- .01 Supply of GRC units.
- .02 Erection/installation.
- .03 Joint treatment
- .04 Supply and installation of backup supports, shimming labor and materials, etc.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

- .01 Framing and support systems.
- .02 Caulking.
- .03 Finishes. The paint manufacturer shall recommend a breathable primer and paint, suitable for cement surfaces.

1.04 QUALITY ASSURANCE:

- .01 Materials and work shall conform to the latest edition of reference specifications specified herein and to applicable codes and requirements of local authorities having jurisdiction.

1.05 QUALIFICATION:

- .01 The manufacturer of glassfiber reinforced cement work shall submit evidence of satisfactory projects completed over the last 10 years.
- .02 The installer of the work specified herein shall be approved by the manufacturer of the specified material.
- .03 The installer of the work, with more than 5 years experience in the installation of GRC units, shall carry out the installation efficiently and co-operate fully with other trades.

1.06 CERTIFICATION/REFERENCES:

- .01 Submit manufacturer's product data, including copies of fire test reports.
- .02 Except as otherwise additionally indicated on the drawings or specified herein, the standards referred to below, shall apply to work under this section.

.1	ASTM C 473	Nail Pull Resistance
.2	ASTM C 473	Humidified Deflection
.3	ASTM C 947	Elastic Limits
.4	ASTM D 256	Impact Resistance
.5	ASTM D 638	Ultimate Tensile Strength
.6	ASTM D 638	Young's Modulus
.7	ASTM D 696	Coefficient of Linear Thermal Expansion
.8	ASTM D 790	Flexural Strength
.9	ASTM D 790	Flexural Modulus
.10	ASTM D 2583	Barcol Hardness
.11	ASTM E 84	Flame Spread Index,
.12	ASTM E 84	Smoke Developed Index

1.07 DESCRIPTION OF WORK:

- .01 This specification is intended to outline the general requirements of the DecoForm (GRC) units as they pertain to the overall design of the project. The manufacturer's recommendations shall not govern the work in this section.
- .02 The installing contractor shall perform all work in this section, including installation, caulking, filling and patching and will assume responsibility for coordinating installation with associated trades.
- .03 GRC is a decorative non-load bearing material and as such the manufacturer cannot be held responsible for structural, load, or seismic considerations.

1.08 DESIGN CRITERIA:

- .01 Unless stated on DecoForm's drawings, fabrication tolerances are as indicated below.

.1	Dimensional - all directions (0' - 10')	± 1/8" (3.2mm)
.2	Dimensional - all directions (11' - 20')	± 3/16" (4.8mm)
.3	Straightness along an edge or surface	± 1/8"/linear ft.
.4	All reveals, setbacks or returns	5° draft
.5	All corners	1/16" - 1/8" radius

1.09 SAMPLES:

- .01 Submit duplicate min. 6" x 6" GRC samples.

1.10 SHOP DRAWINGS:

- .01 Submit for approval, shop drawings of units which show sections, details, joint treatment and the relation of the GRC units to adjoining components.

1.11 SCHEDULING:

- .01 Special scheduling for site coordination must be specified at time of bidding.

1.12 DELIVERY, STORAGE AND HANDLING:

- .01 Units shall be handled and transported in a manner so as not to create damage or excessive stresses.
- .02 GRC units shall be stored level on a clean dry surface in an area protected from weather, moisture and damage. The units shall not be stacked or leaned unless instructed otherwise by the manufacturer.

1.13 WARRANTY:

- .01 The manufacturer warrants that the delivered material supplied will conform to sample and to specifications and will be free from defects in workmanship or material under normal use and conditions for a period of one year from date of shipment. Should defects, attributable to the manufacturer, appear within one year of the date of shipment, the manufacturer has the option of replacing or repairing the defective material.
- .02 Limitations: The aforementioned general warranty is exclusive. All other warranties whether expressed or implied or arising by operation of law, usage of trade, course of dealings or otherwise, are excluded. The only warranties are those expressed above. The manufacturer shall not be liable for any penalty or for any loss or damages associated with the removal or installation of its product or claims of third parties against the Purchaser.

PART 2 - PRODUCTS**2.01 MANUFACTURER:**

DecoForm Inc.
49 Sheffield Street
Toronto, Ontario
CANADA M6M 3E5
Phone: (416) 745-4970
Toll-free 1-877-DECOFORM
FAX: (416) 745-6636
E-mail: sales@decoform.com
Website: www.decoform.com

2.02 MATERIALS:

- .01 GRC units shall be prefabricated with glassfiber reinforced cement.
- .02 Units will be suitably reinforced with additional materials as required.
- .03 GRC units are supplied primer ready. Finishing is specified elsewhere and shall be applied after the GRC units are installed.
- .04 Exposed fasteners shall be stainless steel. All other fastening or attachment devices shall be appropriately plated or galvanized.
- .05 Where cast-in texture is specified, the texture shall be approved at time of sample submission.
- .06 Related product sections include:
 - .1 Columns Master Spec. 03 49 13
 - .2 Trim Master Spec. 03 49 43
 - .3 Cementitious Panels Master Spec. 07 44 53

2.03 PHYSICAL PROPERTIES:

- | | | |
|---------------------------------------|---------------|--|
| .01 Glass content | | 5 - 6% by weight, |
| .02 Weight (depending on reinforcing) | | 2.9 lbs/sq.ft. |
| .03 Shell Thickness | | 3/8" nominal (1/4" min.) |
| .04 Flame Spread Index | (ASTM E 84) | 0 (Class 1) (Class A) |
| .05 Smoke Developed Index | (ASTM E 84) | 0 (Class 1) (Class A) |
| .06 Flexural Strength | (ASTM D 790) | 4,650 psi (32.1 MPa) |
| .07 Flexural Modulus | (ASTM D 790) | 1.43 x 10 ⁶ (9,860 MPa) |
| .08 Elastic Limit | (ASTM C 947) | 981 psi (6.70 MPa) avg. |
| .09 Ultimate Tensile Strength | (ASTM D 638) | 1,480 psi (10.2 MPa) |
| .10 Impact Resistance | (ASTM D 256) | 7.83 ft.lb./in (mean value) |
| .11 Barcol Hardness | (ASTM D 2583) | 81 Avg. |
| .12 Coef. of Thermal Expansion | (ASTM D 696) | 5.50 x 10 ⁻⁶ in/in °F/9.95 x 10 ⁻⁶ mm/mm |
| .13 Nail Pull (wood embedment) | (ASTM C 473) | 466 lbf. Avg. |
| .14 Nail Pull (metal embedment) | (ASTM A 473) | 139 lbf. Avg. |
| .15 Humidified Deflection | (ASTM C 473) | 0.2 mm. mean deflection |
| .16 Compressive Strength | (ASTM C 472) | 10,364 psi. |
| .17 Young's Modulus | (ASTM D 638) | 1.48 x 10 ⁶ |

PART 3 - EXECUTION**3.01 EXAMINATION:**

- .01 Prior to the manufacture of components, the installer shall check all pertinent site dimensions and conditions against the manufacturer's drawings and relay discrepancies to the manufacturer for inclusion in the drawings.
- .02 Prior to installation, the installer shall compare job site dimensions and conditions against the Architect's drawings and shall report any discrepancies to the General Contractor and the Architect. Work shall not proceed until discrepancies are corrected.
- .03 Prior to installation, the installer shall examine pertinent job-site conditions to insure proper arrangement and fit of the work. Start of work implies acceptance of job-site condition.
- .04 All surfaces or framing structures shall be plumb and true as required.

3.02 ERECTION:

- .01 Install work as indicated on drawings, as specified herein and in accordance with approved shop drawings and manufacturer's recommendations.
- .02 Provide all support framing/reinforcing/support brackets required for work of this section and to ensure solid and secure installation.
- .03 Provide temporary supports to maintain position as units are being installed.
- .04 Fasten units with screws through the face of the GRC unit(s), or from the rear.
- .05 Adequate control and/or expansion joints shall be employed.
- .06 Pre-drill fastener holes in GRC components. Clean fastener holes to remove dirt and oil.
- .07 Attach GRC components to framing and substrate with steel drill screws. Do not use pneumatic staple guns. Countersink screw heads below adjoining finished surface.
- .08 Fasten not less than 5/16" from edge or end.
- .09 Cover screw heads with joint compound to produce, smooth, flush and level surfaces.
- .10 GRC units shall be handled with care and lifted with appropriate equipment.
- .11 GRC units shall be installed true and plumb, shimmed where necessary.
- .12 Caulk joints where required with a one-compound elastomeric low modulus urethane sealant equivalent to Sonolastic Ultra. Control joints shall be provided where required as specified by Architect. Color of caulk to be selected by Architect.
- .13 Expansion joints shall be installed as per Architect's recommendation.
- .14 Anchors and fasteners: Type 304 stainless steel where exposed; hot dip galvanized steel where unexposed.

3.03 PATCHING AND CLEANING:

- .01 Repair any defects found after the work of all trades has been completed, regardless of how, or by whom, the damage was caused. Patching shall match the original work. Use Auto Body filler or a polymer modified cementitious product with migrating corrosion inhibitors equivalent to Sika Top to repair any defects and areas requiring patching. Select the correct product by application.
- .02 Patch all countersunk fasteners and damages to match unit's texture, finished flush with face of unit.
- .03 Soiled units may be cleaned using detergent and water.

3.04 FINISHING:

- .01 All DecoForm GRC requires site prime and paint. Use only breathable primers and paints/coatings equivalent to Sherwin-Williams Loxon A-100 breathable primers and paints).

Decoform**Material Safety Data Sheet**

Section 1
Product and Company Information

PRODUCT NAME: **Glassfiber Reinforced Cement (GRC)**

PRODUCT USE: Architectural Decorations

MANUFACTURER: DecoForm Inc.
49 Sheffield Street
Toronto, ON
Canada M6M 3E5
Tel.: 416-745-4970
Fax: 416-745-6636

Section 2
Composition Information on Ingredients

CHEMICAL NAMES

	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Glassfiber Mat	6	10	15	65997-17-3
Plaster of Paris	21	10	15	26499-65-0
Portland Cement	42	10	15	65997-15-1
Sand	31	0.05 (R)	0.1 (R)	14808-60-7
Acrylic Polymer				107-21-1

Section 3
Hazard Identification

EMERGENCY OVERVIEW

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat or upper respiratory tract. Portland Cement is a nuisance dust.

Section 4 First Aid Measures

FIRST AID PROCEDURES

Eyes: Flush thoroughly with water. If irritation persists, consult a physician.

Skin: Wash with mild soap and water. Commercially available hand lotion may be used to treat dry skin areas. If irritation persists consult a physician.

Inhalation: Remove to fresh air. Other measures are usually not necessary, however if conditions warrant consult a physician.

Ingestion: This product is not intended to be ingested or eaten. If gastric disturbance occurs, call a physician.

Section 5 Fire Fighting Measures

General Fire Hazards:	Not expected to burn
Unusual Fire & Explosion Hazards:	None
Hazardous Combustion Products:	
Plaster of Paris:	Above 1450° C – decomposes to calcium oxide (CaO) and sulfur dioxide (SO ₂)
Glass mat:	Primary decomposition products include hydrocarbons and water. Due to the low polyester content, the material should self extinguish when the heat source is removed.

Section 6 Accidental Release Measures

CONTAINMENT:

No special precautions.

CLEAN-UP:

Use normal clean up procedures.

DISPOSAL:

Follow local, state, provincial and federal regulations when disposing industrial waste. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Section 7
Handling and Storage

HANDLING:

Avoid dust contact with eyes. Wear appropriate eye protection against dust. Avoid breathing dust. Wear appropriate respiratory protection against dust in poorly ventilated areas. Use good safety and industrial hygiene practices.

STORAGE:

Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

Dew point conditions or other conditions causing the presence of liquid will harden this material during storage.

Section 8

The information contained herein is believed to be true and accurate but is not warranted To be, whether originating with DecoForm or not. Customers are advised to confirm that information is current, applicable and suitable to the circumstances.

DecoForm Inc. will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

Preparation Date: September 1, 2007 Issue: 3 Replaces Issue: 2

MANUFACTURER CERTIFICATION FOR LEED CREDIT

I, the manufacturer of _____ as specified in Master Specification Section Number _____

Do herein certify that:

1. The materials were manufactured at our plant in Toronto, Ontario, Canada.
2. The materials were extracted or harvested at the United States Gypsum Company (USG) in Norman, OK.
3. The manufactured product contains 0% Post Consumer recycled materials and 5% Pre Consumer recycled materials.
4. Product data submitted under separate cover.

DecoForm contributes to greener construction management by:

1. Using a single mould to **produce many** parts and **retooling** allows moulds to be **reused** for more than one project.
2. **Minimizing construction waste** with our pre-molded easy to install products.
3. Our glassfiber reinforced gypsum and cement (similar to concrete) can be **reused** as filler in many construction products.

Manufacturer: DecoForm Inc.

Certification by: _____

Date: _____

Name: Wally Omran

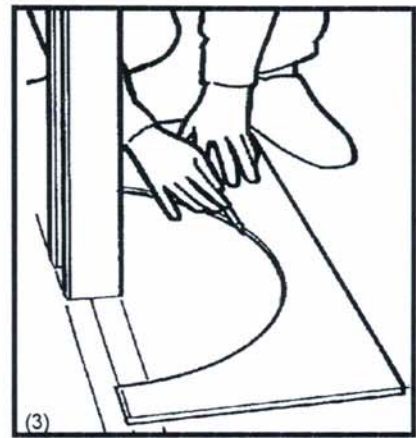
Title: President



(1) Locate center of structural column and scribe a line on both sides which extend further than the base to be installed later.



(2) Use a plumb bob or laser to transfer center line onto ceiling.



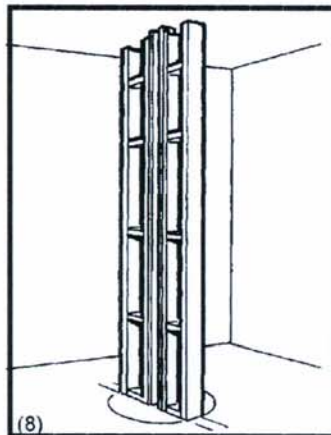
(3) Cut "base" and "capital" plywood templates using paper outline supplied by DecoForm. Place "base" template on floor, center on structural column and trace entire outline. With "capital" template, duplicate this procedure on the ceiling tracing the rectangular profile only.



(7) Scribe line on structural column at height "Y" as measured in step (6).

Cut and instal top cross brace at height "Y" to insure Dia. "X" minus 1/4".

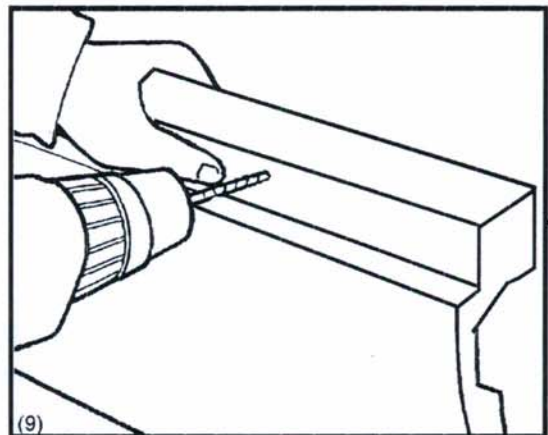
Repeat @ 180 degrees on column.



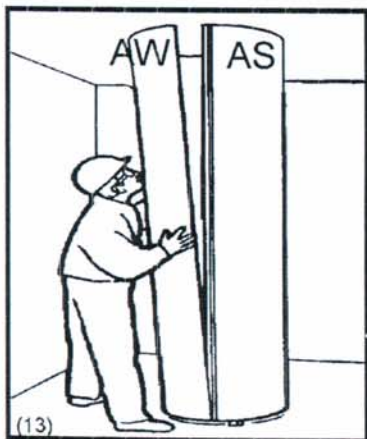
(8) Measure and cut cross-bracing to appropriate lengths and instal @ 24" centers.

Using straight edge on outer, vertical frame, insure that there is no bowing.

Skeleton should be solid and plumb.



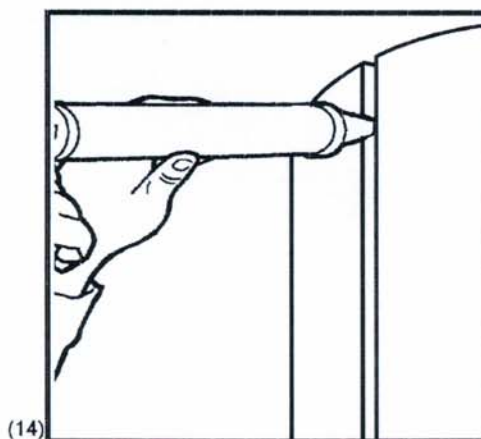
(9) On the column cover half with the larger vertical flange ("AS"), drill and countersink hole 6" from lower end of column cover half and at 16" centers thereafter. Repeat on other column cover half starting at 5" from lower end but drill holes in center of flange as well as into the overlap joint at capital. Refer to drawing "A" (lower right of opposite page).



(13) Locate mating column cover half and position around flange on other column half so as to insure proper fit.

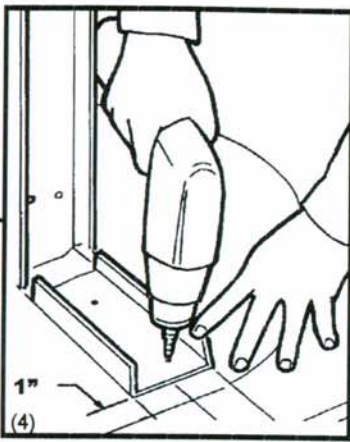
Shim at base to match first column cover half Shim joint with 1/4" spacer.

Refer to Detail "A" on opposite side of page.



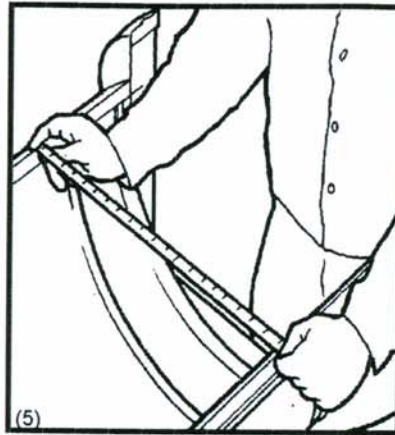
(14) Using a low modulus, paintable caulking, caulk all seams including horizontal reveals at floor and ceiling. Ensure weeping hole at bottom of column. Patch and sand screw holes with joint compound.

Prime & paint using breathable products.



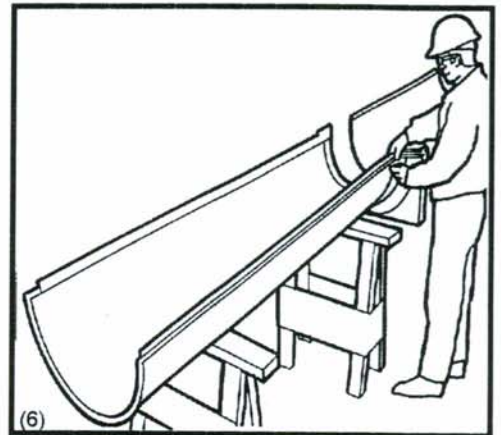
(4) Fasten framing to structural column on center-line and plumb.

Fasten base blocking on center-line 1" back from circle scribed on floor.



(5) Locate column cover half which has the larger, indented vertical flange.

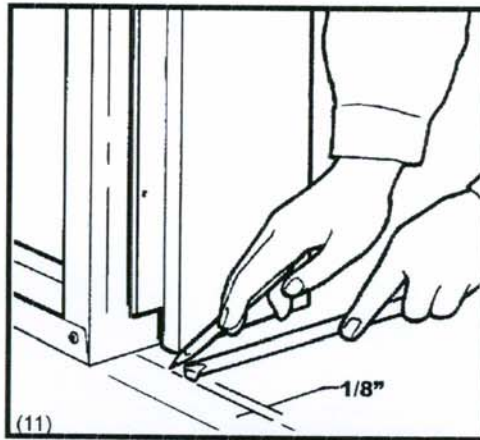
Measure the inner diameter between flanges (at the capital). (Dia. "X").



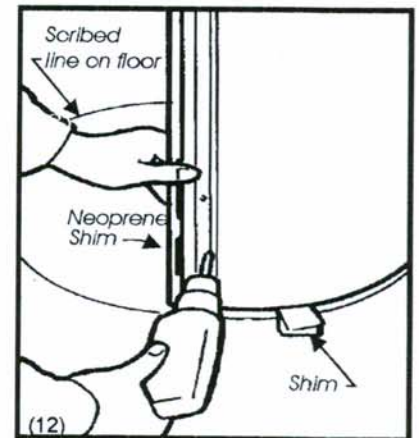
(6) Measure length of column cover half from lower end to the point at which the diameter was measured in step #5. (Dim. "Y").



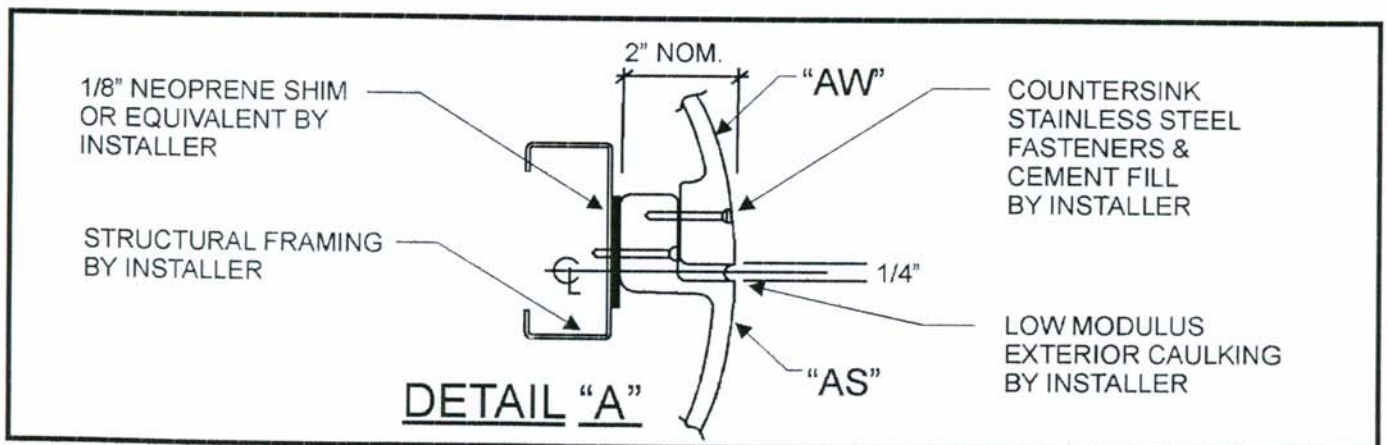
(10) Locate column cover half as identified by the larger, indented vertical flange and position over scribed circular line on floor.



(11) Place the column cover half with the outside diameter, 1/8" back of scribed center line.



(12) Shim bottom of column cover half until top is 1/8" from ceiling or passes through ceiling. Use neoprene shim between column cover and framing to insure O.D. of column cover is held. Plumb and fasten through previously drilled holes.



PART 1 - GENERAL**1.01 SUMMARY:**

- .01 Provide special fiberglass reinforced plastic (FRP) shapes in accordance with the requirements of the contract documents.
- .02 The installing contractor shall be responsible for verifying that all required blocking is provided and installed in the correct locations for FRP components proper installation.

1.02 WORK INCLUDED:

- .01 Supply of FRP units.
- .02 Erection / installation.
- .03 Joint treatment.
- .04 Supply and installation of backup supports, shimming, labor and materials, etc.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

- .01 Masonry work.
- .02 Structural steel: Support framing for fiberglass components.
- .03 Rough carpentry.
- .04 Joint sealants.
- .05 Finishing: Paint manufacturer shall recommend paint suitable for FRP surfaces.

1.04 RELATED DOCUMENTS:

- .01 Composites Fabricators Associations (CFA) Guidelines and Recommended Practices for Fiberglass Reinforced Plastic Architectural Products.

1.05 QUALITY ASSURANCE:

- .01 Materials and work shall conform to the latest edition of reference specifications specified herein and to applicable codes and requirements of local authorities having jurisdiction.

1.06 QUALIFICATION:

- .01 The manufacturer of FRP work shall submit evidence of satisfactory projects it has achieved in the last 10 years.
- .02 The installer of the work specified herein shall be approved by the manufacturer of the specified material.
- .03 The installer of the work, with more than 5 years experience in the installation of FRP units, shall carry out the installation efficiently and co-operate fully with other trades.

1.07 CERTIFICATION & REFERENCES:

- .01 Submit manufacturer's product data, including copies of fire test reports.
- .02 Except as otherwise additionally indicated on the drawings or specified herein, the standards referred to below, shall apply to work under this section.
 - .1 ASTM D-256 - Impact Resistance
 - .2 ASTM D-570 - Water Absorption
 - .3 ASTM D-638 - Ultimate Tensile Strength
 - .4 ASTM D-638 - Young's Modulus
 - .5 ASTM D-648 - Deflection Temperature
 - .6 ASTM D-696 - Coefficient of Linear Thermal Expansion
 - .7 ASTM D-790 - Flexural Properties
 - .8 ASTM D-2583 - Barcol Hardness
 - .9 ASTM E-84 - Surface Burning

1.08 DESCRIPTION OF WORK:

- .01 This specification is intended to outline the general requirements of the DecoForm (FRP) units as they pertain to the overall design of the project. The manufacturer's recommendations shall not govern the work in this section.
- .02 The installing contractor shall perform all work in this section, including installation, caulking (filling) and patching and will assume responsibility for coordinating installation with the work and associated trades.

1.09 DESIGN CRITERIA:

- .01 Unless otherwise stated on DecoForm's drawings, fabrication tolerances are as indicated below.
 - .1 Dimensional - all directions (0' - 10') $\pm 1/8"$
 - .2 Dimensional - all directions (10' - 20') $\pm 3/16"$
 - .3 Straightness along an edge or surface $\pm 1/16"/\text{linear ft.}$
 - .4 All reveals, grooves, setbacks or returns 3° draft (min.)
 - .5 All outside corners $1/16" - 1/8"$ radius

1.10 SAMPLES:

- .01 Submit duplicate, minimum 6" x 6" FRP samples.

1.11 SHOP DRAWINGS:

- .01 Submit for approval, shop drawings of units which show sections, details, joint treatment and the relation of the FRP units to adjoining components

1.12 SCHEDULING:

- .01 Special scheduling for site coordination must be specified at time of bidding.

1.13 DELIVERY, STORAGE AND HANDLING:

- .01 Units shall be handled and transported per manufacturer's recommendation, in a manner so as not to create damage or excessive stresses.
- .02 FRP units shall be stored level on a clean dry surface in an area protected from weather, moisture and damage. The units shall not be stacked or leaned unless instructed otherwise by the manufacturer.
- .03 The installer is responsible for chipping, cracking, or other damage to fiberglass components, after delivery to the job-site and until installation is completed and inspected approved by the Owner's representative.

1.14 WARRANTY:

- .01 The manufacturer warrants that the delivered material supplied will conform to samples and to specifications and will be free from defects in workmanship or material under normal use and conditions for a period of ONE year from date of shipment. Should defects, attributable to the manufacturer, appear within one year of the date of shipment, the manufacturer has the option of replacing or repairing the defective material.
- .02 Limitations: The aforementioned general warranty is exclusive. All other warranties whether expressed or implied or arising by operation of law, usage of trade, course of dealings or otherwise, are excluded. The only warranties are those expressed above. The manufacturer shall not be liable for any penalty or for any loss or damages associated with the removal or installation of its product or claims of third parties against the Purchaser.

PART 2 - PRODUCTS**2.01****.01 MANUFACTURER:**

DecoForm Inc.
49 Sheffield Street
Toronto, Ontario
CANADA M6M 3E5
Phone: (416) 745-4970
FAX: 416 745-6636
E-mail: sales@decoform.com
Website : www.decoform.com

2.02 MATERIALS:

- .01 Show face shall be as per the TYPE selected and may include the following special features: ISO/NPG, ultra violet stabilized, polyester gel-coat minimum thickness 15-20mil. Color to be matt white, ready for field painting.
- .02 Fiberglass reinforcement shall consist of a glassfiber reinforced polyester composite with glass content and thickness to meet structural design. Additional stiffeners (as required) shall be encased in the fiberglass composite to ensure straightness and strength. Flat surfaces equal to or greater than 12" x 12" or any running surface equal to or greater than 9" in width, shall be fabricated with a minimum 1/4" thick sandwich core.
- .03 Anchors and fasteners: Type 304 stainless steel where exposed; hot dip galvanized steel where unexposed.
- .04 Form stripping agent must be compatible with and for application of sealant and applied finishes.
- .05 Units will be reinforced (by design) with additional materials (such as wood, metal, etc.) as required.
- .06 Caulk joints where required with, one-compound elastomeric low modulus urethane sealant equivalent to Sonolastic Ultra. Do not use acrylic based products. Color of caulk to be selected by Architect.

.03 PHYSICAL PROPERTIES:

- | | | |
|--|--------------|---------------------------------|
| .01 Glass Content | | - 25% by weight |
| .02 Specific Gravity | | - 1.7 |
| .03 Shell Thickness | | - 1/8" min. |
| .04 Flame Spread Index (FSI) | (ASTM E84) | - 20 (Class 1)(Class A) |
| .05 Smoke Developed (SD) | (ASTM E84) | - 375 (Class 1)(Class A) |
| .06 Flexural Strength | (ASTM D790) | - 24.4 x 10 ³ p.s.i. |
| .07 Flexural Modulus | (ASTM D790) | - 1.03 x 10 ⁶ p.s.i. |
| .08 Tensile Strength | (ASTM D638) | - 10.6 x 10 ³ p.s.i. |
| .09 Young's Modulus | (ASTM D638) | - 1.45 x 10 ⁶ p.s.i. |
| .10 Ultimate Elongation | (ASTM D638) | - 1.09% |
| .11 Impact Strength (Method A) | (ASTM D256) | - 11.4 ft.-lb./in. |
| .12 BarcolHardness | (ASTM D2583) | - 45 - 51 |
| .13 Water Absorption | (ASTM D570) | - Mean value - .350%/24hrs. |
| .14 Heat Deflection | (ASTM D648) | - >220°C |
| .15 Coefficient of Thermal Expansion (ASTM D696) | | - 2.06 x 10 ⁻⁵ 1°C |
| .16 Crosshatch Adhesion* | (ASTM D3359) | -Coating not scored |
| .17 Weight | | - 1.65 to 2.3 lbs/sq.ft. |

PART 3 - EXECUTION**3.01 EXAMINATION:**

- .01 Prior to the manufacture of components, the installer shall check all pertinent site dimensions and conditions against the manufacturer's drawings and relay discrepancies to the manufacturer for inclusion in the drawings.
- .02 Prior to installation, the installer shall compare job site dimensions and conditions against the Architect's drawings and shall report any discrepancies to the General Contractor, the Architect and the manufacturer. Work shall not proceed until discrepancies are corrected.
- .03 Prior to installation, the installer shall examine pertinent job-site conditions to insure proper arrangement and fit of the work. Start of work implies acceptance of job-site condition.
- .04 All surfaces or framing structures shall be plumb and true as required.

3.02 PREPARATION:

- .01 Examine the contract drawings and specifications in order to ensure the completeness of the work required under this section.
- .02 Verify measurements and dimensions at the job-site and cooperate in the coordination and scheduling of the work of this section with the work of related trades, so as not to delay job progress.

3.03 ERECTION:

- .01 Install work as indicated on drawings, as specified herein and in accordance with approved shop drawings and manufacturer's recommendations.
- .02 Provide all support framing/reinforcing/support brackets required for work of this section and to ensure solid and secure installation.
- .03 Provide temporary supports to maintain position as units are being installed.
- .04 FRP units shall be handled with care and lifted with appropriate equipment.
- .05 FRP units shall be installed true and plumb, shimmed where necessary.
- .06 Caulk or fill all joints as required following Manufacturers recommendations. Control joints shall be provided where required as specified by Architect.
- .07 Where a Monolithic Joint has been specified, fill with Autobody filler or an equivalent product and sand the complete component assembly following Manufacturers recommendations under "Typical Monolithic Joint Installation". Use a primer which is compatible with high solids polyurethane paints for exterior and acrylic, polyurethane or oil based enamel paints for interior applications.
- .08 Expansion joints shall be installed as per Architect's recommendation.

3.04 TOLERANCES - ERECTED UNITS

- | | | |
|-----|---|------------------|
| .01 | Face width of joint | ± 1/8" (3.2 mm.) |
| .02 | Variation from plumb (in any dist. of 20' max.) | ± 1/8" (3.2 mm.) |
| .03 | Variation from level (in any dist. of 20' max.) | ± 1/8" (3.2 mm.) |
| .04 | Max. differential between adjacent units in erected position (non-cumulative) | ± 1/8" (3.2 mm) |

3.05 PATCHING AND CLEANING:

- .01 Repair any defects found after the work of all trades has been completed, regardless of how, or by whom, the damage was caused. Patching shall match the original work. Use Manufacturers recommended materials when available.
- .02 Patch all countersunk fasteners and damages to match unit texture, finished flush with face of unit. . Use Manufacturers recommended materials when available

3.06 FINISHING:

- .01 Reference shall be made to the painting/texturing section of the specifications.

Decoform**Material Safety Data Sheet****Section 1
Product and Company Information**

PRODUCT NAME: **Fiberglass Reinforced Polyester (FRP)**

PRODUCT USE: Architectural Decorations

MANUFACTURER: DecoForm Inc.
49 Sheffield Street
Toronto, ON
Canada M6M 3E5
Tel.: 416-745-4970
Fax: 416-745-6636

**Section 2
Important Product Information**

Fiberglass Reinforced Polyester is classified as an 'article' under the Hazard Communication Standard (29 CFR 1901200) by the US Occupational Safety and Health Administration (OSHA).

This product is therefore considered to be non-hazardous based on evaluations made by Maxxam Analytics under the OSHA Hazard Communication Standard (29 CFR 1901200).

An 'article' is defined as a manufactured item, other than fluid or a particle, which:

- ◆ Is formed to a specific shape or design during manufacture
- ◆ Has end use function(s) dependent in whole or part upon its shape or design during end use.
- ◆ Under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of hazardous chemical and does not pose a physical hazard or health risk to individuals who might come in contact with the finished product.

Section 3 Hazard Identification

EMERGENCY OVERVIEW

This product is not expected to produce any unusual hazards during normal use.

When fiberglass reinforced polyester is abraded, machined or mechanically disturbed, excessive dust may be released. Adequate control of released dust must be established (e.g., vacuum up any dust deposits or clean the area by applying wet methods).

Exposure to high dust levels may irritate the skin, eyes, nose, throat or upper respiratory tract.

Section 4 First Aid Measures

FIRST AID PROCEDURES

Eyes: Flush thoroughly with water. If irritation persists, consult a physician.

Skin: Wash with mild soap and water. Commercially available hand lotion may be used to treat dry skin areas. If irritation persists consult a physician.

Inhalation: Remove to fresh air. Other measures are usually not necessary, however if conditions warrant consult a physician.

Ingestion: This product is not intended to be ingested or eaten. If gastric disturbance occurs, call a physician.

Section 5 Fire Fighting Measures

Flash Point: N/A

Flammability: FRP meets the requirements for a Class 1 fire rating with Flame Spread Index (FSI) of 14 and Smoke Developed Index (SDI) of 375.

Explosion Data: N/A

Extinguishing Media: Carbon dioxide, dry chemical powder, foam and water spray.

Section 6
Accidental Release Measures

CONTAINMENT:

No special precautions.

CLEAN-UP:

Use normal clean up procedures.

DISPOSAL:

Follow local, state, provincial and federal regulations when disposing industrial waste. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Section 7
Handling and Storage

HANDLING:

Avoid dust contact with eyes. Wear appropriate eye protection against dust. Avoid breathing dust. Wear appropriate respiratory protection against dust in poorly ventilated areas. Use good safety and industrial hygiene practices.

STORAGE:

Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

Section 8

The information contained herein is believed to be true and accurate but is not warranted To be, whether originating with DecoForm or not. Customers are advised to confirm that information is current, applicable and suitable to the circumstances. DecoForm Inc. will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

Preparation Date: September 1, 2007 Issue: 2 Replaces Issue: Original

MANUFACTURER CERTIFICATION FOR LEED CREDIT

I, the manufacturer of _____ as specified in Master Specification Section Number _____

Do herein certify that:

1. The materials were manufactured at our plant in Toronto, Ontario, Canada.
2. The materials were extracted or harvested at the United States Gypsum Company (USG) in Norman, OK.
3. The manufactured product contains 0% Post Consumer recycled materials and 5% Pre Consumer recycled materials.
4. Product data submitted under separate cover.

DecoForm contributes to greener construction management by:

1. Using a single mould to **produce many** parts and **retooling** allows moulds to be **reused** for more than one project.
2. **Minimizing construction waste** with our pre-molded easy to install products.
3. Our glassfiber reinforced gypsum and cement (similar to concrete) can be **reused** as filler in many construction products.

Manufacturer: DecoForm Inc.

Certification by: _____

Date: _____

Name: Wally Omran

Title: President



(1) Locate center of structural column and scribe a line on both sides which extend further than the base to be installed later (step #18).



(2) Use a plumb bob or laser to transfer center line onto ceiling.

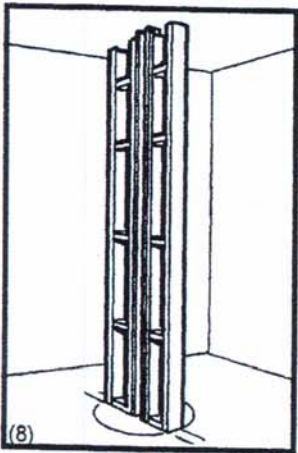


(3) Cut "base" and "capital" plywood templates using paper outline supplied by DecoForm. Place "base" template on floor, center on structural column and trace entire outline. With "capital" template, duplicate this procedure on the ceiling tracing the rectangular profile only.



(4) Fasten framing to structural column on center-line and plumb.

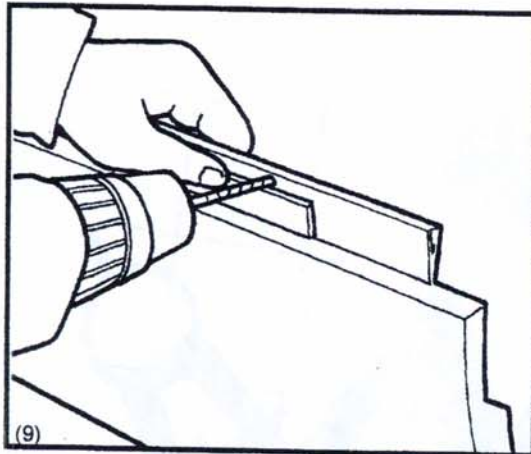
Fasten base blocking on center-line 1" back from circle scribed on floor.



(8) Measure and cut cross-bracing to appropriate lengths and instal @ 24" centers.

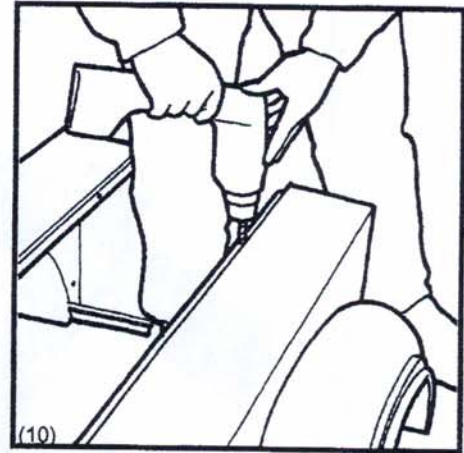
Using straight edge on outer, vertical frame, insure that there is no bowing.

Skeleton should be solid and plumb.



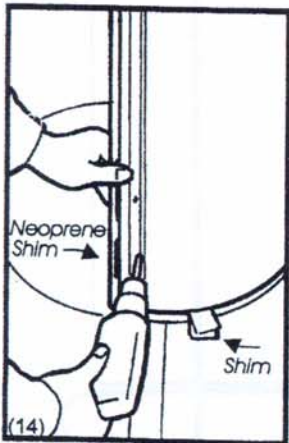
(9) Fabricate a 3/4" wide x 6" long height gauge.

On the column cover half with the larger vertical flange, drill 3/16" dia. clearance hole 6" from lower end of column cover half and at 16" centers thereafter. Repeat on other column cover half starting at 5" from lower end but drill holes in center of flange as well as into the overlap joint at capital.

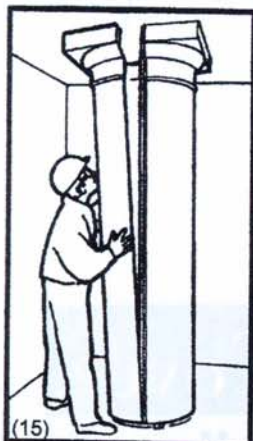


(10) Into the "base" and "capital" caulk recess, drill 3/16" dia. clearance holes in caulk recess, 6" from each end.

Also drill 3/16" dia. clearance holes in caulk recess of 2nd. column cover half, spaced on 16" centers.



(14) Shim bottom of column cover half until top is 1/8" from ceiling. Use neoprene shim between column cover and framing to insure O.D. of column cover is held. Plumb and fasten through previously drilled clearance holes.

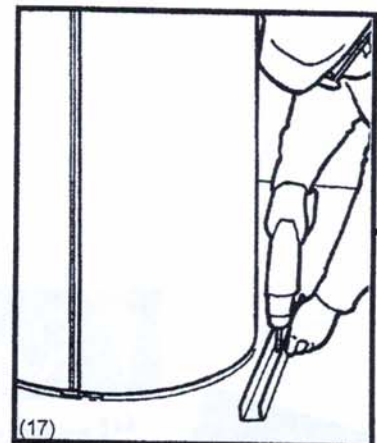


(15) Locate mating column cover half and position around flange on other column half so as to insure proper fit.

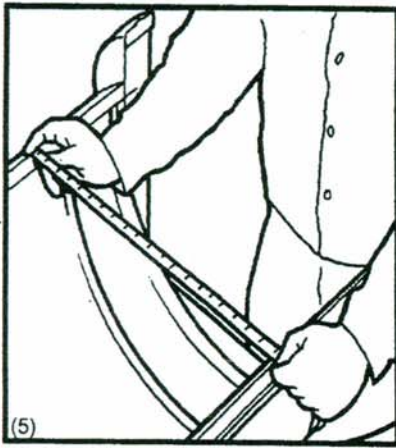
Shim at base to match first column cover half.



(16) While ensuring that the column cover halves are held tight together use #10 x 1 1/4" "TEK" screws and fasten through both flanges into support stud down entire length of column covers.

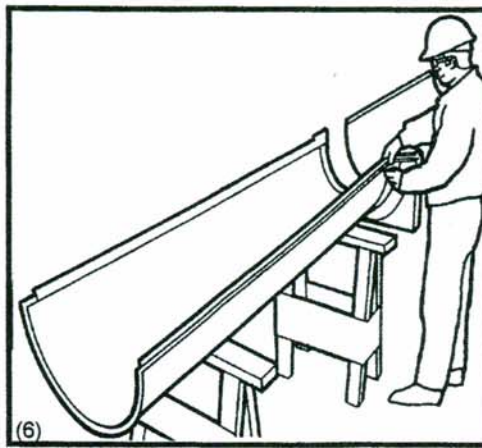


(17) Position blocking along inside of both scribed lines and fasten to floor.



(5) Locate column cover half which has the larger vertical flange.

Measure the inner diameter between flanges (at the capital). (Dia. "X").



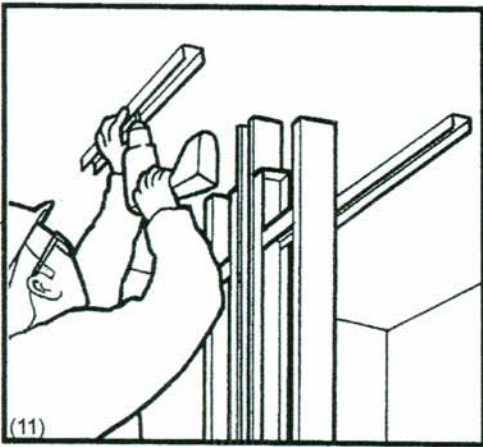
(6) Measure length of column cover half from lower end to the point at which the diameter was measured in step #5. (Dim. "Y").



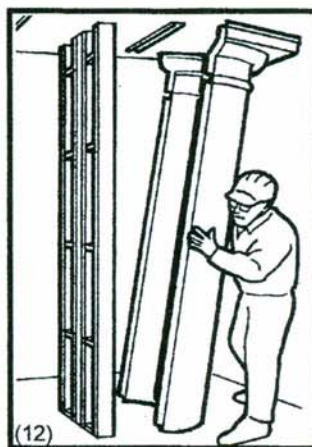
(7) Scribe line on structural column at height "Y" as measured in step (6).

Cut and install top cross brace at height "Y" to insure Dia. "X" minus 1/4".

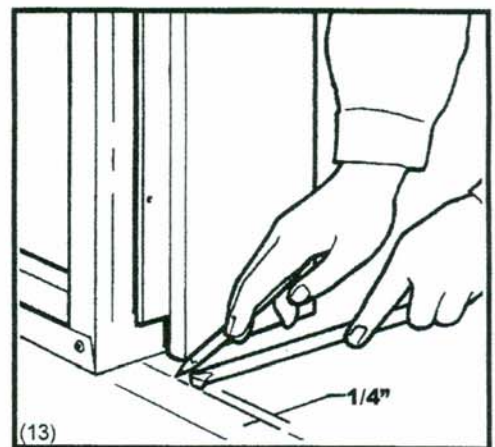
Repeat @ 180 degrees on column.



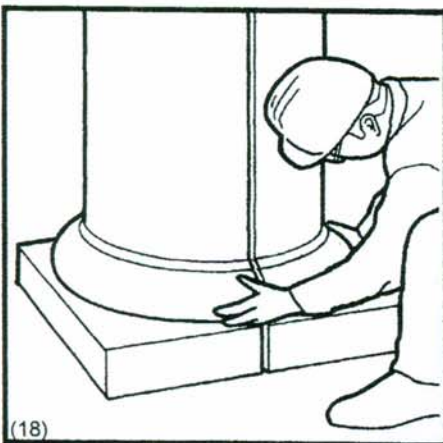
(11) Install blocking inside scribed lines on ceiling.



(12) Locate column cover half as identified by the larger vertical flange and position over scribed circular line on floor.

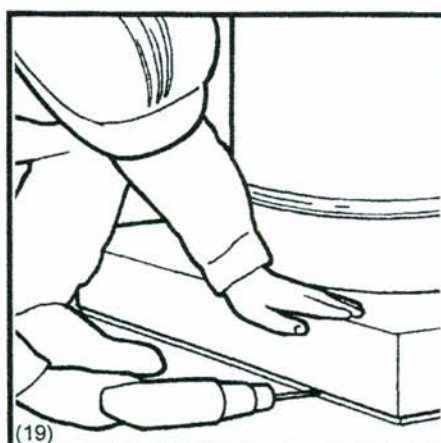


(13) Place the column cover half with the outside diameter, 1/4" back of scribed center line.



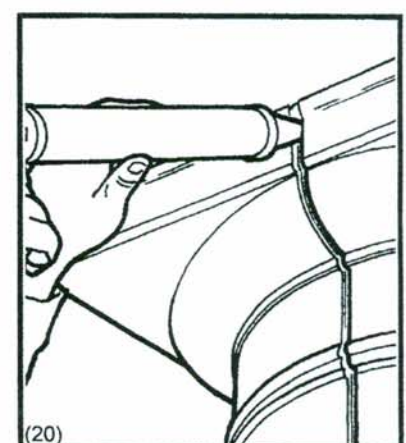
(18) Position both base halves around column cover assembly. Fasten both base halves together through vertical reveals.

Align base assembly with reveal of column cover shaft.



(19) At caulk recess, fasten base assembly through to blocking.

Repeat procedure at capital.



(20) Using a low modulus, paintable caulking, caulk all seams including horizontal reveals at floor and ceiling.

SandScape™ FIBERGLASS REINFORCED POLYESTER (LIMESTONE / SANDSTONE)

PART 1 - GENERAL

1.01 SUMMARY:

- .01 Furnish all labor, materials, joint treatment, suspension systems, scaffold, equipment and related services necessary for the complete installation of the SandScape units. Items not noted herein, which are required to make a complete installation shall also be included. The installing contractor will be responsible for supply, installation and coordination of the work outlined in this section and will do so in compliance with local codes and/or ordinances.

1.02 WORK INCLUDED:

- .01 Supply of SandScape™ units.
- .02 Erection / installation.
- .03 Joint treatment.
- .04 Supply and installation of backup supports, shimming, labor and materials, etc.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

- .01 Masonry work.
- .02 Structural steel: Support framing for fiberglass components.
- .03 Rough carpentry.
- .04 Joint sealants.

1.04 QUALITY ASSURANCE:

- .01 The manufacturer of SandScape™ shall conform to the latest edition of reference specifications specified herein and applicable codes and requirements of local authorities having jurisdiction, whichever is more stringent.

1.06 QUALIFICATION:

- .01 The manufacturer of SandScape™ work shall submit evidence of satisfactory projects it has achieved in the last (5) years.
- .02 The installer of the work specified herein shall be approved by the manufacturer of the specified material.
- .03 The installer of the work shall be fully experienced in the installation of SandScape™ units shall carry out the installation efficiently and co-operate fully with other trades.

1.07 CERTIFICATION / REFERENCES:

- .01 Submit manufacturer's product data, including copies of fire test reports.
- .02 Except as otherwise additionally indicated on the drawings or specified herein, the standards referred to below, shall apply to work under this section.
 - .1 ASTM C-947 - Flexural Strength
 - .2 ASTM D-256 - Impact resistance
 - .3 ASTM D-638 - Ultimate Tensile Strength
 - .4 ASTM D-696 - Coefficient of Linear Thermal Expansion
 - .5 ASTM D-785 - Rockwell Hardness
 - .7 ASTM D-790 - Modulus of Elasticity in Flexural
 - .8 ASTM D-2583 - Indentation Hardness
 - .9 ASTM E-84 - Flame Spread Index, Smoke Developed Index

1.08 DESCRIPTION OF WORK:

- .01 This specification is intended to outline the general requirements of the DecoForm SandScape™ units as they pertain to the overall design of the project. The manufacturer's recommendations shall not govern the work in this section.
- .02 The installing contractor shall perform all work in this section, including installation, caulking (filling) and patching and will assume responsibility for coordinating installation with the work and associated trades.

1.09 DESIGN CRITERIA:

- .01 Unless otherwise stated on DecoForm's drawings, fabrication tolerances are as indicated below.
 - .1 Dimensional - all directions (0' - 10') ± 1/8"
 - .2 Dimensional - all directions (10' - 20') ± 3/16"
 - .3 Straightness along an edge or surface ± 1/16"/linear ft.
 - .4 All reveals, grooves, setbacks or returns 3° draft (min.)
 - .5 All outside corners 1/16" - 1/8" radius

1.10 SAMPLES:

- .01 Submit duplicate, minimum 3" x 3" SandScape™ samples.

1.11 SHOP DRAWINGS:

- .01 Submit for approval, shop drawings of units which show sections, details, joint treatment and the relation of the SandScape™ units to adjoining components

1.12 SCHEDULING:

.01 Special scheduling for site coordination must be specified at time of bidding.

1.13 DELIVERY, STORAGE AND HANDLING:

.01 Units shall be handled and transported per manufacturer's recommendation, in a manner so as not to create damage or excessive stresses.

.02 SandScape™ units shall be stored level on a clean dry surface in an area protected from weather, moisture and damage. The units shall not be stacked or leaned unless instructed otherwise by the manufacturer.

.03 The installer is responsible for chipping, cracking, or other damage to fiberglass components, after delivery to the job-site and until installation is completed and inspected approved by the Owner's representative.

1.14 WARRANTY:

.01 The manufacturer warrants that the delivered material supplied will conform to samples and to specifications and will be free from defects in workmanship or material under normal use and conditions for a period of ONE year from date of shipment. Should defects, attributable to the manufacturer, appear within one year of the date of shipment, the manufacturer has the option of replacing or repairing the defective material.

.02 Limitations: The aforementioned general warranty is exclusive. All other warranties whether expressed or implied or arising by operation of law, usage of trade, course of dealings or otherwise, are excluded. The only warranties are those expressed above. The manufacturer shall not be liable for any penalty or for any loss or damages associated with the removal or installation of its product or claims of third parties against the Purchaser.

PART 2 - PRODUCTS

2.01

.01 MANUFACTURER:

DecoForm Inc.
90 Milvan Drive
Toronto, Ontario
CANADA M9L 1Z6
Phone: (416) 745-4970
FAX: 416 745-6636
E-mail: sales@decoform.com

2.02 MATERIALS:

- .01 Show face shall be aggregate with polyester resin and ISO/NPG, ultra violet stabilized gelcoat. Standard color as per sample.
- .02 SandScape™ shall consist of a glassfiber reinforced polyester composite with glass content and thickness to meet structural design. Additional stiffeners (as required) shall be encased in the fiberglass composite to ensure straightness and strength.
- .03 Anchors and fasteners: Type 304 stainless steel where exposed; hot dip galvanized steel where unexposed.
- .04 Units will be suitably reinforced with additional materials (such as wood, metal, etc.) as required.
- .05 Caulk joints where required, with Sonneborn Ultra , one-component elastomeric sealant or equivalent low modulus urethane product. Do not use acrylic based products. Color of caulk to be selected by Architect.

2.03 PHYSICAL PROPERTIES:

- | | | | |
|-----|--------------------------|--------------|--------------------------------------|
| .01 | Glass Content | | - 25% by weight |
| .02 | Specific Gravity | | - 1.7 |
| .03 | Shell Thickness | | - 3/16 nominal - 1/8" min. |
| .04 | Flame Spread Index (FSI) | (ASTM E84) | - (Class 1)(<25 FSR) |
| .05 | Flexural Strength | (ASTM D790) | - 19,000 p.s.i. |
| .06 | Flexural Modulus | (ASTM D790) | - 12,000 |
| .07 | Tension Modulus | (ASTM D790) | - 2.7 – 3.8-x 10 ⁶ p.s.i. |
| .08 | Impact Strength | (ASTM D256) | - 16 ft.-lb./in. |
| .09 | Barcol Hardness | (ASTM D2583) | - 35 - 60 |
| .10 | Weight | | - 1.65 to 2.3 lbs/sq.ft. |

PART 3 - EXECUTION

3.01 EXAMINATION:

- .01 Prior to the manufacture of components, the installer shall check all pertinent site dimensions and conditions against the manufacturer's drawings and relay discrepancies to the manufacturer for inclusion in the drawings.
- .02 Prior to installation, the installer shall compare job site dimensions and conditions against the Architect's drawings and shall report any discrepancies to the General Contractor, the Architect and the manufacturer. Work shall not proceed until discrepancies are corrected.
- .03 Prior to installation, the installer shall examine pertinent job-site conditions to insure proper arrangement and fit of the work. Start of work implies acceptance of job-site condition.

.04 All surfaces or framing structures shall be plumb and true as required.

3.02 PREPARATION:

- .01 Examine the contract drawings and specifications in order to ensure the completeness of the work required under this section.
- .02 Verify measurements and dimensions at the job-site and cooperate in the coordination and scheduling of the work of this section with the work of related trades, so as not to delay job progress.

3.03 ERECTION:

- .01 Install work as indicated on drawings, as specified herein and in accordance with approved shop drawings and manufacturer's recommendations.
- .02 Provide all support framing/reinforcing/support brackets required for work of this section and to ensure solid and secure installation.
- .03 Provide temporary supports to maintain position as units are being installed.
- .04 SandScape™ units shall be handled with care and lifted with appropriate equipment.
- .05 SandScape™ units shall be installed true and plumb, shimmed where necessary.
- .06 Caulk or fill all joints as required following Manufacturer's recommendations. Control joints shall be provided where required as specified by Architect.
- .07 Expansion joints shall be installed as per Architect's recommendation.

3.04 TOLERANCES - ERECTED UNITS

- | | |
|---|------------------|
| .01 Face width of joint | ± 1/8" (3.2 mm.) |
| .02 Variation from plumb (in any dist. of 20' max.) | ± 1/8" (3.2 mm.) |
| .03 Variation from level (in any dist. of 20' max.) | ± 1/8" (3.2 mm.) |
| .04 Max. differential between adjacent units in erected position (non-cumulative) | ± 1/8" (3.2 mm) |

3.05 PATCHING AND CLEANING:

- .01 Repair any defects found after the work of all trades has been completed, regardless of how, or by whom, the damage was caused. Patching shall match the original work. Use Manufacturers recommended materials when available.
- .02 Patch all countersunk fasteners and damages to match unit texture, finished flush with face of unit. . Use Manufacturers recommended materials when available

Cutting DecoForm Material

Blade:

For Best results, use a **Diamond Blade** or **Diamond Abrasive Wheel**.

Tools:

Depending on the style and detail of the profile, a hand held **Circular Saw** or a **Sawzall** will do the trick.

Small Profiles:

Depending on the size and detail of the profile, one can construct a mitre box to house the shape, enabling the person to cut the form to it's preferred angle.

Large Profiles:

Depending on the size and detail of the profile, one would first support the shape in a manner that will best represent the position as it would be when fastened. On that surface, draw a line representing the desired angle. Slide a piece of wood along this angle against the profile. Cut the wood as close as possible to the new profile. Mark the new profile on the shape and proceed to cut.

Frequently asked questions:

1. Does DecoForm install their products?

No, DecoForm is a manufacturer only. We do not install or take site measurements but we may be able to provide names of contractors in your area who have installed our products.

2. What is the difference between GRC and GFRC?

GFRC is a glassfiber reinforced concrete with a minimum thickness of ½". True GFRC incorporates cast-in-place steel skeletons with rebar outriggers which in turn are welded to the building structure. GFRC components can be supplied pre-colored.

GRC is glassfiber reinforced cement that is typically 3/8" thick and mechanically attached via screws. GRC is lighter in weight which makes it possible to install larger components without major lifting equipment. GRC is primed and painted on site.

3. What is the lowest cost vs most expensive material manufactured by DecoForm?

With projects of equal scope, SandScape is the most expensive material followed by FRP, GRC then GRG respectively.

4. Is there asbestos in DecoForm products?

There is no asbestos in any product manufactured by DecoForm.

5. What finishes can be used on DecoForm products?

SandScape and FRP are pre-finished, however FRP may also be painted. GRG components are typically primed then coated with compatible finishing material (check with finish material manufacturer). GRC components must be coated with a breathable primer then coated with a compatible overcoat (check with finish material manufacturer).

6. How are DecoForm products best cut?

All DecoForm products can be cut with tungsten or carborundum blades. If many parts are cut, diamond encrusted blades / wheels should be used.