



# City of Foster City

## ESTERO MUNICIPAL IMPROVEMENT DISTRICT

610 FOSTER CITY BOULEVARD  
FOSTER CITY, CA 94404-2222  
(650) 286-3200  
FAX (650) 574-3483

### **BUILDING PERMIT IS REQUIRED NOT APPROVED FOR CONSTRUCTION**

CITY OF FOSTER CITY

COMMUNITY DEVELOPMENT DIRECTOR'S ACTION

NOTICE OF DECISION

APPLICATION RECEIVED: October 4, 2006

APPLICATION COMPLETE: October 5, 2006

ACTION DATE: October 5, 2005

CASE NO.: UP-72-020P

OWNER: Winston Square HOA

OWNER ADDRESS: c/o Ed Pierce, Pierce Property Management, 969G Edgewater Blvd., Foster City, CA 94404

APPLICATION FOR: Common area light pole fixture replacement prototype

LOCATION: Winston Square planned development

ZONING: R-T/PD (Townhouse Residence) District

ACTION TAKEN: Approved with Conditions

On the date listed above, the Community Development Director of the City of Foster City, took the action described above on the subject Architectural Review application based on the following findings:

1. That the proposal to replace light poles in the common areas throughout the Winston Square Planned Development, as conditioned in Exhibit A is consistent with the Foster City General Plan and Title 17, Zoning, and Chapter 2.28, Planning, of the Foster City Municipal Code because the proposed design will the maintain the existing appearance of residential units in the development, will allow for necessary replacement of existing light fixtures, will preserve "the quality of the City's residential neighborhoods" as stated in the Land Use and Circulation Goal (LUC-A) and Land Use Policies (LUC-38 and LUC-39) contained in the Land Use and Circulation Element of the Foster City General Plan, and will be consistent with the residential use of the residences in the Winston Square Planned Development.
2. That the design of the proposal is appropriate to the City, the neighborhood and the lot in which it is proposed because the design, colors, and materials of the replacement light poles are compatible with the architectural style, character, and proportions of residential units and in the development and will be in keeping with similar improvements in the neighborhood.

3. That the design of the proposal is compatible with its environment with respect to use, forms, materials, colors, setbacks, location, height, design, or similar qualities as specified in Section 17.58.010, Intent and Purpose, of Chapter 17.58, Architectural Control and Supervision, of the Foster City Municipal Code because the design will ensure that light pole replacements are orderly and consistent for all residential units in the development, and will preserve the overall architectural style and characteristics throughout the Winston Square Planned Development.
  
4. That the proposal will not, under the circumstances of the particular case, be detrimental to the health, safety, morals, comfort and general welfare of the persons residing or working in the neighborhood of such proposed use, and will not be injurious or detrimental to property and improvements in the neighborhood or the general welfare of the City because the design will ensure that all common light poles maintain similar architectural characteristics and will not have detrimental visual impacts on the neighborhood, the Winston Square Planned Development, or the property values in the area.

This action is subject to any conditions contained in Exhibit A, attached.

Expiration

Any Architectural Review approval shall, without further action, become null and void if not used within two (2) years from the date of approval thereof, or within any shorter or longer period of time if so approved by the Community Development Director.

Appeal

Pursuant to Section 17.06.150 of the Foster City Municipal Code, an action of the Community Development Director on an application may be appealed within ten (10) calendar days after the date of the Community Development Director's decision, in writing, to the Planning Commission. Appeals may be filed using the appeal form available in the Community Development Department or by letter. There is a fee for filing an appeal. All appeals must be filed in accordance with Section 17.06.150.

Acknowledgment by Applicant

Pursuant to Section 17.58.040.E of the Foster City Municipal Code, any Architectural Review decision shall not be effective until the permittee acknowledges acceptance of any conditions of approval and any appeal period has lapsed, or if there is an appeal, until a final decision has been made on the appeal. In order to demonstrate that you are aware of and understand the Architectural Review conditions of approval (attached hereto as Exhibit A), please sign the original of this letter and return it to the Planning/Code Enforcement Division. Please keep the duplicate for your records. *Please be advised that a Building Permit **will not** be issued until the Planning/Code Enforcement Division has received the signed Notice of Decision.*

Sincerely,



Richard B. Marks  
Community Development Director

\_\_\_\_\_  
(Applicant's Name) (Please Print)

Planners Initials: KET

\_\_\_\_\_  
(Applicant's Signature)

## EXHIBIT A

### WINSTON SQUARE HOMEOWNERS' ASSOCIATION Prototypical Design Guidelines for Replacement of Common Area Light Poles

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The following guidelines shall govern the installation and replacement of all common area light poles in the Winston Square Planned Development:

#### CONDITIONS OF APPROVAL

1. **Prior to commencement of work, a building permit shall be obtained from the Building Inspection Division. Four (4) sets of final construction drawings shall be submitted with the building permit application.**
  2. All materials and colors shall be as approved. Once constructed or installed, all improvements shall be maintained in accordance with the approved plans. Any changes which affect the exterior character of the work shall be resubmitted for approval.
  3. Standard residential security requirements as established by Chapter 15.28 of the Foster City Municipal Code shall be provided.
  4. All vents, gutters, downspouts, flashings, etc., shall be painted to match the color of the adjacent surfaces. No electrical conduits or similar piping shall be allowed on the exterior of the building unless approved prior to installation by the Community Development Director.
  - \* 5. Prior to installation, a Building Permit shall be obtained from the Building Inspections Division. As part of the Building Permit application, a detailed site plan shall be submitted showing the location of each light pole to be replaced as well as the proposed location of any new light poles.
  6. Prior to any final inspection approval, these conditions and all improvements shall be completed to the satisfaction of the City.
  7. Once a building permit is issued, it is the permit holder's responsibility to ensure that the project receives a final inspection before the building permit expires (180 days after the last inspection). Failure to receive and/or pass a final inspection will result in the expiration of the building permit which will require additional fees to reactivate.
  - \* 8. Replacement light poles shall be Oden fixture ODN-1-T5-70P-6-AM-SL-C5-H2 with the Custom Arm 152 as shown in Exhibit B (attached).
- \* Site Specific Conditions

**APPROVAL PROCESS**

1. The applicant shall obtain an approval letter from the Winston Square Homeowners' Association for the proposed common area light pole replacements. The letter shall indicate that the proposed changes conform to the established design criteria of the prototype.
2. The contractor shall apply for a Building Permit from the Building Inspection Division and shall submit any required drawings and fees, including a detailed site plan showing the locations for the replacement light poles and the location(s) of new light poles.
3. The Planning/Code Enforcement Division staff will review the Building Permit application to confirm that the proposal is consistent with the prototypical design approved for replacement common area light poles.

\_\_\_\_\_  
Ed Pierce, Pierce Property Management  
Winston Square Homeowners' Association

\_\_\_\_\_  
Date

\_\_\_\_\_  
Richard B. Marks, Community Development Director  
City of Foster City

\_\_\_\_\_  
Date

# VISIONAIRE LIGHTING

21FT

18FT

15FT

12FT

9FT

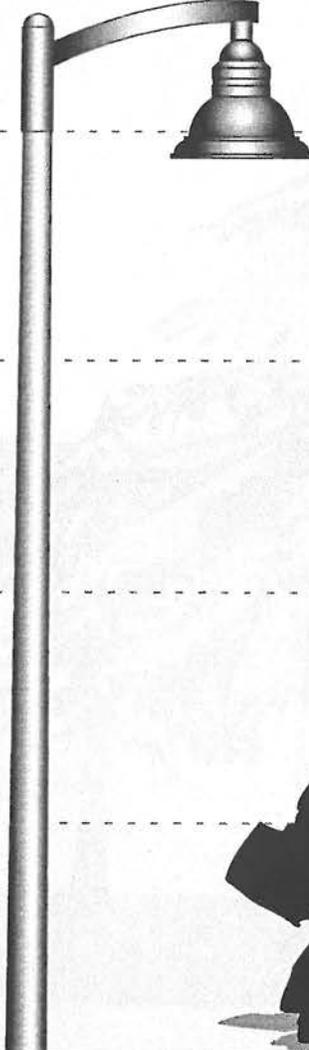
6FT

3FT

## Inter Mountain Electric Winston Square Foster City, Ca.

Fixture: Oden ODN-1-T5- 70P -6-AM-SL-C5-H2  
Arm: Custom Arm 152  
Pole: By Others

24"



*UP-72-020P*  
CITY OF FOSTER CITY  
PLANNING DEPARTMENT

OCT 05 2006  
*[Signature]*  
ADMINISTRATIVE APPROVAL  
WITH CONDITIONS *KAT*

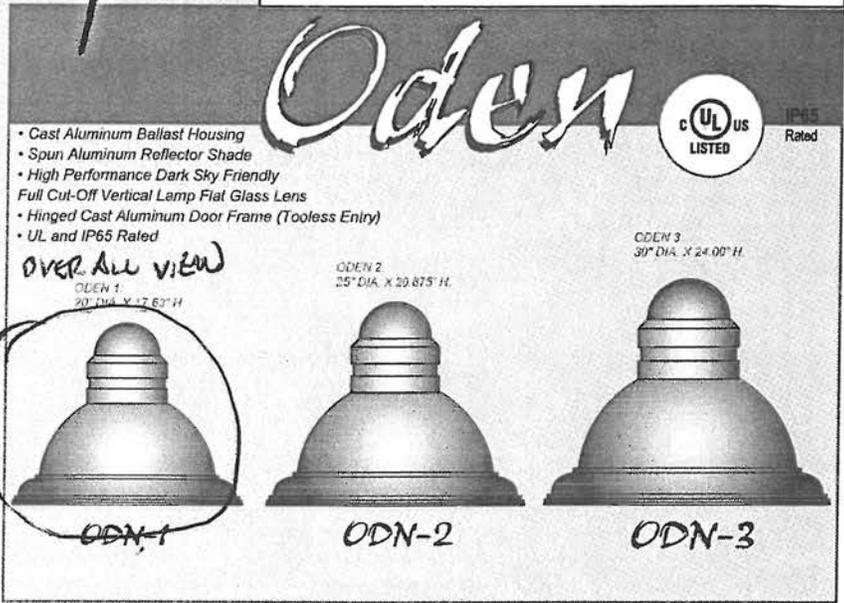
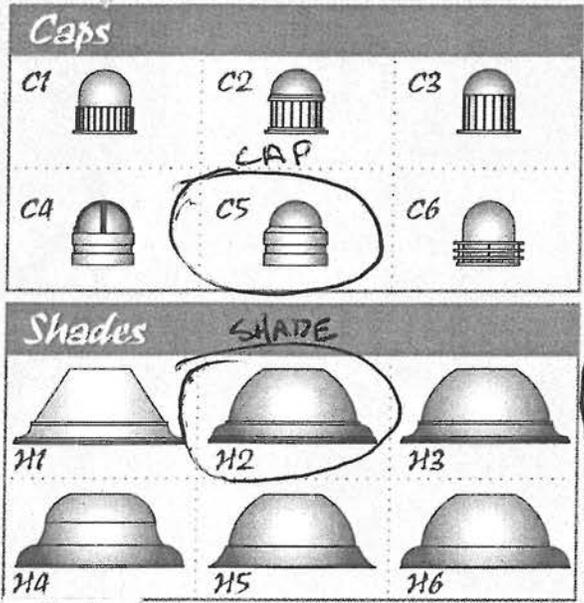
FOSTER-CITY  
RECEIVED

OCT 04 2006

PLANNING  
DIVISION



# VISIONSCAPES BY VISIONAIRE LIGHTING



- Cast Aluminum Ballast Housing
- Spun Aluminum Reflector Shade
- High Performance Dark Sky Friendly Full Cut-Off Vertical Lamp Flat Glass Lens
- Hinged Cast Aluminum Door Frame (Toolless Entry)
- UL and IP65 Rated

Model No.	Optics	Wattage	Source	Voltage	Mounting	Finish	Caps / Shades / Options
<b>ODN-1</b>	<b>T5</b>	<b>70</b>	<b>P</b>	<b>6</b>	<b>AM</b>	<b>SL</b>	<b>C5 / H2</b>

Model No.	Optics	Wattage	Source	Voltage	Mounting	Finish	Caps	Shades
<input checked="" type="checkbox"/> <b>ODN-1</b> <small>ODEN 1 20" DIA. X 17.63" H</small>	<input type="checkbox"/> Type II (T2) <input type="checkbox"/> Type III (T3) <input type="checkbox"/> Type IV (T4) <input checked="" type="checkbox"/> Type V (T5)	<input checked="" type="checkbox"/> 70 (70) <input type="checkbox"/> 100 (100) <input type="checkbox"/> 150 (150) <input type="checkbox"/> 175 (175)	<input checked="" type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S) <input type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S) <input type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S) <input type="checkbox"/> MH (M) <input type="checkbox"/> PS (P)	<input type="checkbox"/> 120 (1) <input type="checkbox"/> 208 (2) <input type="checkbox"/> 240 (3) <input type="checkbox"/> 277 (4) <input type="checkbox"/> 480 (5) <input checked="" type="checkbox"/> M.Tap (6)	<input checked="" type="checkbox"/> Arm Mount (AM) <input type="checkbox"/> Pendant Mount *Pendant Rod is 1/2" OD. Consult factory for length. (PM) <input type="checkbox"/> Mast Arm Fitter *Cast Mast Arm Fitter is designed to slip over 2-3/8" Ø (MAP-01)	<input type="checkbox"/> Bronze (BZ) <input type="checkbox"/> Black (BK) <input type="checkbox"/> White (WH) <input type="checkbox"/> Green (GN) <input type="checkbox"/> Gray (GY) <input checked="" type="checkbox"/> Silver Metallic (SL) <input type="checkbox"/> Weathered Brown (WB) <input type="checkbox"/> Forest Green (FG) <input type="checkbox"/> Sandstone (SS) <input type="checkbox"/> Verdigris (VG) <input type="checkbox"/> Custom (CC)	<input type="checkbox"/> Cap 1 (C1) <input type="checkbox"/> Cap 2 (C2) <input type="checkbox"/> Cap 3 (C3) <input type="checkbox"/> Cap 4 (C4) <input checked="" type="checkbox"/> Cap 5 (C5) <input type="checkbox"/> Cap 6 (C6)	<input type="checkbox"/> Shade 1 (H1) <input checked="" type="checkbox"/> Shade 2 (H2) <input type="checkbox"/> Shade 3 (H3) <input type="checkbox"/> Shade 4 (H4) <input type="checkbox"/> Shade 5 (H5) <input type="checkbox"/> Shade 6 (H6)
<input type="checkbox"/> <b>ODN-2</b> <small>ODEN 2 25" DIA. X 20.875" H</small>		<input type="checkbox"/> 200 (200) <input type="checkbox"/> 250 (250) <input type="checkbox"/> 320 (320) <input type="checkbox"/> 350 (350) <input type="checkbox"/> 400 (400)	<input type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S) <input type="checkbox"/> MH (M) <input type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S) <input type="checkbox"/> PS (P)	<input type="checkbox"/> 400 (400)	<input type="checkbox"/> Mast Arm Fitter *Cast Mast Arm Fitter is designed to slip over 2-3/8" Ø (MAP-01)	<input type="checkbox"/> Silver Metallic (SL) <input type="checkbox"/> Weathered Brown (WB) <input type="checkbox"/> Forest Green (FG) <input type="checkbox"/> Sandstone (SS) <input type="checkbox"/> Verdigris (VG) <input type="checkbox"/> Custom (CC)	<input type="checkbox"/> Cap 5 (C5) <input type="checkbox"/> Cap 6 (C6)	<input type="checkbox"/> Shade 5 (H5) <input type="checkbox"/> Shade 6 (H6)
<input type="checkbox"/> <b>ODN-3</b> <small>ODEN 3 30" DIA. X 24.00" H</small>		<input type="checkbox"/> 750 (750) <input type="checkbox"/> 1000 (1000)	<input type="checkbox"/> MH (M) <input type="checkbox"/> PS (P) <input type="checkbox"/> MH (M) <input type="checkbox"/> PS (P) <input type="checkbox"/> HPS (S)	<input type="checkbox"/> 1000 (1000)				
<div style="text-align: center;"> </div>		<div style="text-align: center;"> </div>						

- Additional Options**
- Photo Cell Button Type (PC)
  - Photo Receptacle Twistlock (PER) \*Please consult factory when choosing this option
  - Fusing: Single (SF) / Double (DF)
  - Harsh Environment Package (HEP) \*Consult Factory For Component List



## Round Tapered Composite Tuff-Poles®



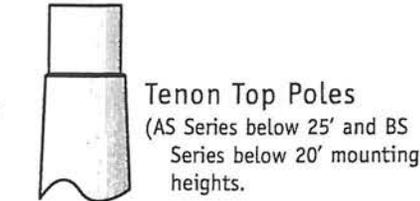
Tenon Top and Capped  
Direct Burial and Anchor Base

Tenon Top

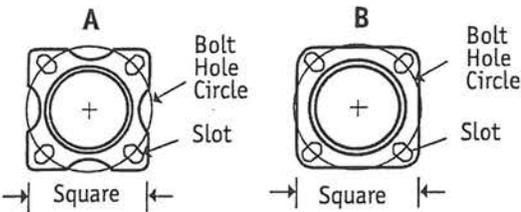
Capped

Anchor Base

Direct Burial



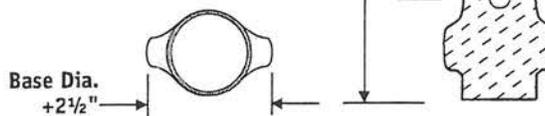
TENONS: 2<sup>3</sup>/<sub>8</sub>", 3", 4" OD, if pole dimensions permit. Tenons are A356-T6 aluminum or hot-dipped galvanized steel, and are available in all standard sizes; for other optional tenons contact Shakespeare. Post top fixtures, flood lights, or brackets mount with ease.



### Anchor Base Dimensions

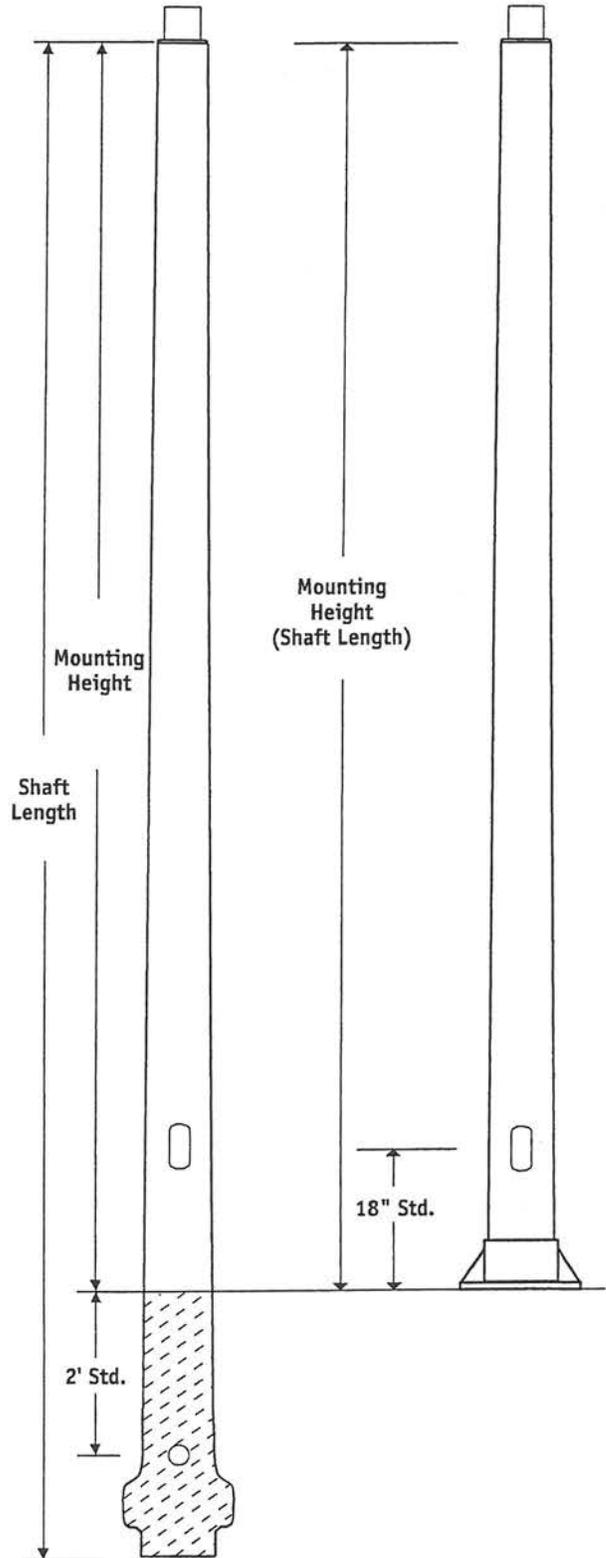
Bolt Hole Circle	Drawing	Square	Slot
8"	A	7.75"	1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>16</sub> "
8 <sup>1</sup> / <sub>2</sub> "	A	8.125"	1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>16</sub> "
9 <sup>1</sup> / <sub>2</sub> "	A	8.8"	1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>16</sub> "
11 <sup>1</sup> / <sub>2</sub> "	B	11"	1 <sup>1</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> "
14"	B	12.9"	1 <sup>1</sup> / <sub>2</sub> " x 2"
14 <sup>1</sup> / <sub>2</sub> "	B	13.3"	1 <sup>1</sup> / <sub>2</sub> " x 2"
15"	B	13.5"	1 <sup>1</sup> / <sub>2</sub> " x 2"
15 <sup>1</sup> / <sub>2</sub> "	B	14"	1 <sup>1</sup> / <sub>2</sub> " x 2"

For poles with one, two or more arms, see Mast Arm Poles.



ANCHOR BASE: Cast A356-T6 aluminum, polyurethane coated to match pole color.

Hot dipped galvanized steel anchor bolts complete with nuts (2) and washers (2) are supplied standard (5/8" x 21" x 3", 1" x 30" x 4", or 1<sup>1</sup>/<sub>4</sub>" x 36" x 6" depending on the pole specified).





## COMPOSITE TUFF-POLE

AA, AB, AC, AD, AG, AH, AO, and AS Series

BA, BB, BC, BD, BG, BH, BO, BS and BX Series

Anchor Base and Direct Burial



Anchor Base



Direct Burial Base

- Mounting heights to 47'
- Natural or smooth finish
- Eight standard colors - pigments integrated into the resin
- High-performance UV- and weather resistant pigmented polyurethane coating
- Tenon Top (Post Top) or Capped (except AS Series below 25' mounting height)
- EPA ratings are the same for Capped or Tenon Top poles
- Poles can be predrilled for bolt-on side mount fixture(s), arms, etc. (except AS Series below 25' mounting height)
- Composite shrouds (1- or 2-piece) optional. Optional bolt covers available for some styles
- Poles are individually ID tagged
- Wrapped individually for shipment

- Mounting heights to 40'
- Natural or smooth finish
- Eight standard colors - pigments integrated into the resin
- High-performance UV- and weather resistant pigmented polyurethane coating
- Tenon Top (Post Top) or Capped (except BS Series below 20' mounting height)
- EPA ratings are the same for Capped or Tenon Top poles
- Wiring access hole standard
- Poles can be predrilled for bolt-on side mount fixture(s), arms, etc. (except BS Series below 20' mounting height)
- Poles are individually ID tagged
- Wrapped individually for shipment
- Direct Burial style for fast, easy installation and improved ground line appearance
- Anti-rotation flare structurally integrated into pole base during manufacture
- Shakespeare fiberglass won't rust, rot, or corrode in the ground, and insects won't eat it.
- No concrete foundations or anchor bolts

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Capped or Tenon Top	20
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### Series:

- AA BA
- AB BB
- AC BC
- AD BD
- AG BG
- AH BH
- AO BO
- AS BS
- BX

■ Standard handhole: 2½" x 5" oval. Optional 4" x 6" or 4" x 12" handholes, depending on pole dimensions. For other handhole options, contact factory. All handhole covers are polyurethane coated to match pole color.

Shakespeare calculates all EPA recommendations based on poles with handholes, and in accordance with the AASHTO standard, allowing for a 30% gust factor for all wind ratings, including 120mph.

For applications requiring extremely large loads and extra height, ask for information on Shakespeare Transmission and Distribution poles - up to 70' long and capable of large luminaires typical of sports stadiums and the like.

# Round Tapered Composite Tuff-Poles®

BA, BB, BC, BD, BG, BH, BO, BS, and BX Series, Direct Burial Base Tenon Top or Capped



**COMPOSITE  
TUFF-POLE**

Nominal Mounting Height (ft.)	Shaft Length (ft.)	Pole Weight (lbs.)	POLE DIAMETER		Standard Handhole Location from Base (in.)	SUGGESTED MAXIMUM TOTAL LOADING					Suggested Burial Depth (ft.)	BASIC CATALOG NUMBER	Comment
			Shaft Top (in.)	Shaft Base (in.)		Total Weight (lbs.)	80 MPH EPA* (sq. ft.)	90 MPH EPA* (sq. ft.)	100 MPH EPA* (sq. ft.)	120 MPH EPA* (sq. ft.)			
<b>Direct Burial Base, Series BA, BB, BC, BD, BG, BH, and BS, Tenon Top or Capped</b>													
8	11	21	4.1	5.5	54	150	23.4	18.1	14.4	9.5	3	<b>BO11</b>	
10	13	24	4.1	5.8	54	150	19.0	14.6	11.4	7.3	3	<b>BO13</b>	
10	13	27	4.4	6.2	54	200	26.1	20.1	15.7	10.1	3	<b>BG13</b>	
12	15	28	4.1	6.1	54	150	16.0	12.1	9.3	5.7	3	<b>BO15</b>	←
12	15	31	4.4	6.6	54	200	22.0	16.7	12.8	7.9	3	<b>BG15</b>	
14	18	34	4.1	6.5	66	150	14.0	10.4	7.9	4.6	4	<b>BO18</b>	
14	18	38	4.4	6.9	66	200	19.3	14.3	10.9	6.3	4	<b>BG18</b>	
16	20	38	4.1	6.7	66	100	10.0	7.4	5.5	3.0	4	<b>BO20</b>	
16	20	42	4.4	7.1	66	150	13.8	10.2	7.6	4.1	4	<b>BG20</b>	
16	20	52	4.6	7.3	66	200	16.2	12.6	10.1	6.7	4	<b>BH20</b>	
18	22	42	4.1	6.7	66	100	9.0	6.5	4.8	2.4	4	<b>BO22</b>	
18	22	46	4.4	7.1	66	150	12.4	9.0	6.6	3.3	4	<b>BG22</b>	
20	24	46	4.1	6.7	66	100	8.2	5.8	4.1	1.9	4	<b>BO24</b>	
20	24	50	4.4	7.1	66	150	10.4	8.0	5.6	2.6	4	<b>BG24</b>	
20	24	62	4.6	7.3	66	200	11.2	8.6	6.8	4.5	4	<b>BH24</b>	
25	30	71	4.5	8.2	78	100	6.2	4.7	3.6	2.2	5	<b>BS30</b>	
25	30	98	4.7	8.4	78	200	14.5	11.2	8.9	5.9	5	<b>BH30</b>	
25	30	132	4.9	8.5	78	300	20.1	15.7	12.5	8.2	5	<b>BX30</b>	
25	30	159	6.4	10.3	78	300	23.2	18.2	14.3	9.0	5	<b>BB30</b>	
25	30	187	6.6	10.4	78	300	33.5	26.2	20.8	13.6	5	<b>BC30</b>	
30	35	82	4.5	8.3	78	100	3.7	2.6	1.9	0.8	5	<b>BS35</b>	
30	35	116	4.7	8.4	78	200	10.5	8.0	6.2	3.8	5	<b>BH35</b>	
30	35	153	4.9	8.5	78	300	14.8	11.4	9.0	5.6	5	<b>BX35</b>	
30	35	186	6.4	11.0	78	300	19.7	16.2	11.7	7.1	5	<b>BB35</b>	
30	35	218	6.6	11.1	78	300	28.7	22.4	17.4	11.0	5	<b>BC35</b>	
30	35	266	6.9	11.3	78	300	37.4	29.1	22.9	14.8	5	<b>BD35</b>	
35	41	154	6.2	11.7	90	300	8.1	6.0	3.9	1.3	6	<b>BA41</b>	
35	41	218	6.4	11.8	90	300	14.3	10.8	7.8	4.0	6	<b>BB41</b>	
35	41	156	6.6	11.9	90	300	21.8	16.6	12.5	7.2	6	<b>BC41</b>	
35	41	311	6.9	12.0	90	300	29.0	22.1	17.5	10.3	6	<b>BD41</b>	
40	47	176	6.2	11.7	102	300	6.4	4.3	2.4	--	7	<b>BA47</b>	
40	47	249	6.4	11.8	102	300	12.2	8.8	6.0	2.5	7	<b>BB47</b>	
40	47	292	6.6	11.9	102	300	19.2	14.1	10.4	5.4	7	<b>BC47</b>	
40	47	357	6.9	12.0	102	300	25.8	19.3	14.5	6.3	7	<b>BD47</b>	



■ Standard handhole: 2½" x 5" oval. All handhole covers are polyurethane coated to match pole color. ■ EPA ratings are the same for capped or tenon top poles. ■ Poles can be predrilled for bolt-on side mount fixture(s), arms, brackets, etc. ■ All poles are individually wrapped for shipment.

\*All EPA recommendations are based on poles with handholes, and in accordance with the AASHTO standard, include a 30% gust factor.

A complete Shakespeare Composite Structures™ Composite Tuff-Pole® Catalog Number includes all of the information detailed below, in order from left to right, including the dash. The letters and numbers to the left of the dash are the Basic Catalog Number found in the listings of the poles. Poles with mast arms include two digits to the right of the dash. The remainder of the Catalog Number details the options which you can specify in the order listed to define accessories, handholes, colors, etc. Please use the

standard specification for these options whenever possible.

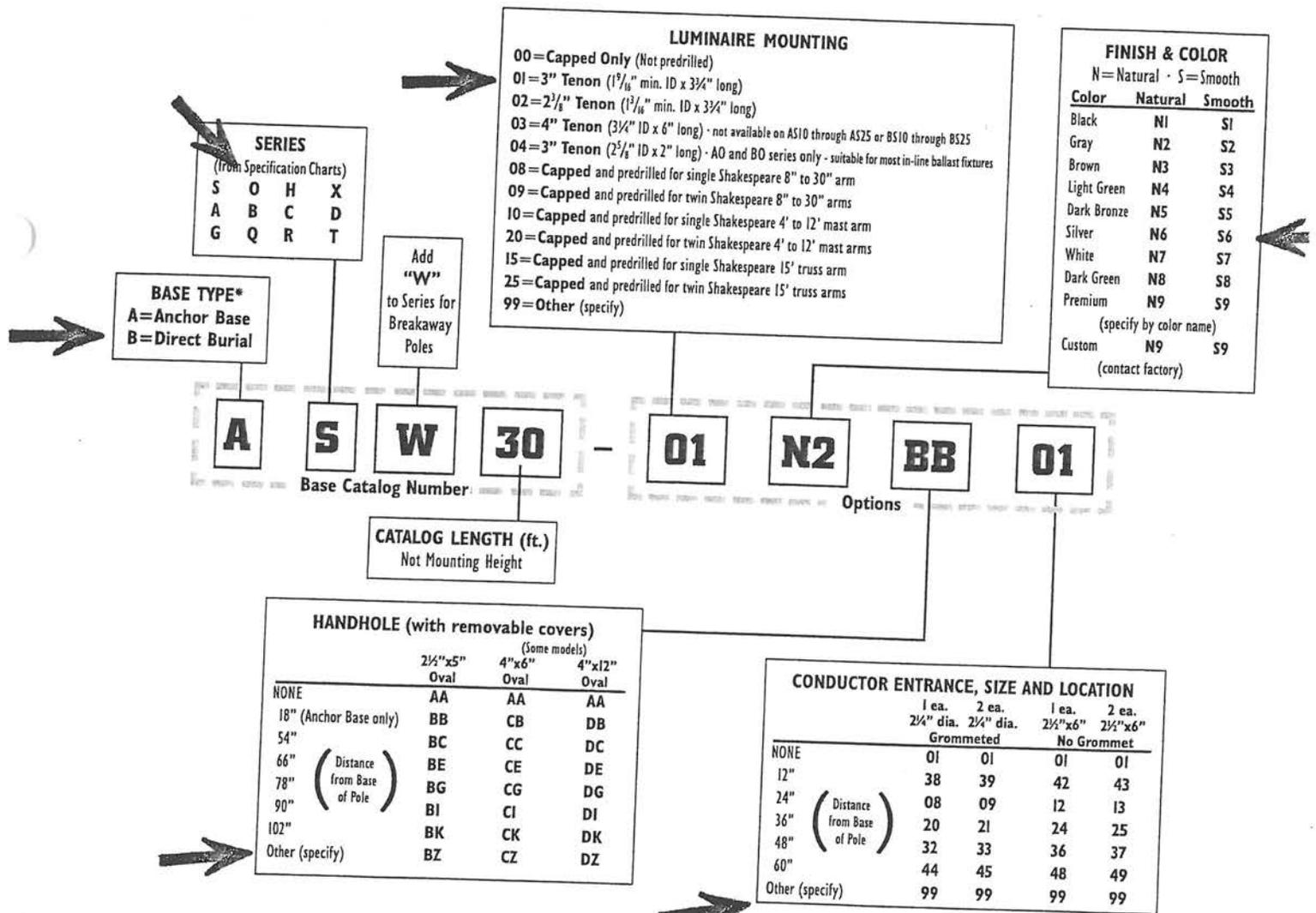
You can assemble your own catalog numbers, or call for assistance. Most of the available options are listed in the template. Call for information on all other options.

## How to use this manual

To decide which Tuff-Pole® you need, first consider your application: Anchor Base or Direct Burial. Shakespeare Composite Structures™ recommends Direct Burial

style poles for cost efficiency and ease of installation, if your application permits. Next choose round or square, standard or Breakaway, hinge or stub styles, and the method of luminaire attachment and wiring access. Then, using your required mounting height, wind speed, and the total EPA and weight of all intended attachments, select a pole with loading ratings that meet your needs.

If you need help choosing or specifying, our experienced staff will be glad to help. Just call.



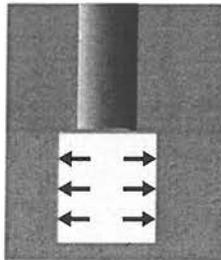
\*Order logic and specifications for Tuff-Stub base poles are detailed in Shakespeare Composite Structures™ publication LSP-I. Order logic and specifications for Tuff-Hinge hinged base poles are detailed in Shakespeare publication LHP-I

# NEW PRODUCT

## Tamping, Tipping, and Concrete Mixing are History!

**PoleCrete™ lets you set poles quickly, permanently, and inexpensively in any soil without pouring concrete.**

- Eliminates time, labor, and material expense of forming, pouring, and curing reinforced concrete
- Requires no special equipment for use
- Can be used year round, even in extremely cold climates
- Environmentally safe - no ozone depleting chemicals
- Safe to use
- Packaging acts as storage, mixing, and disposal container
- Long lasting, with long shelf life
- Install new poles, including fiberglass, wood, etc., or straighten and stabilize old ones



PoleCrete™ grips the pole from inside the hole and presses against the soil to hold the pole much better than tamped soil.

Available in convenient 1-gallon, 2-gallon, 3-gallon, and 5-gallon kits which include pre-assembled mixing blade for 3/4" drill, gloves, and stirring paddle.

### Done!

After only 15 minutes, remove supports, tidy the ground line, and move on to the next pole.



**1**  
Mix the two parts together in the box they come in.



**2**  
Pour the liquid into the hole around the pole.



**Shakespeare  
Composite Structures™**

# Fast, easy pole installation without soil tamping or concrete

Advanced-formula PoleCrete™, puts the squeeze on the surrounding soil to set poles fast, easy, and inexpensively without time consuming soil tamping and without pouring concrete. The foam works in virtually any type of soil, even rock and sand. It works in any climate, even extremely cold ones.

Use PoleCrete™ for:

- Setting new poles
- Uprighting damaged poles
- Communication dishes
- Cable protection
- Pedestal fill
- Gate and fence posts
- Billboard poles
- Pole barn poles
- Highway sign poles
- H-Frame supports

Environmentally safe: The EPA does not classify PoleCrete™ as a hazardous material or hazardous waste, and the product contains no ozone depleting chemicals, no CFC's.

## Specifications

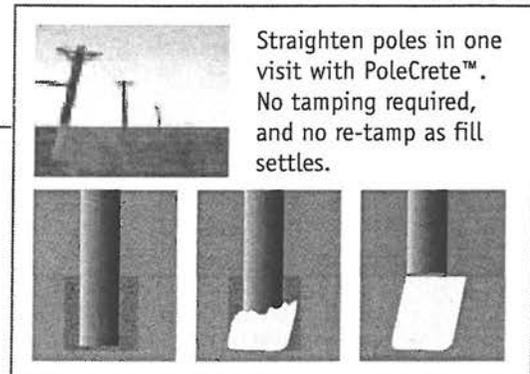
Definition: PoleCrete™ Stabilizer is a 3.5-4.0 pcf density NON-CFC blown, rigid urethane foam system.

Product Data (Typical Properties)

	<b>A</b>	<b>B</b>
Viscosity @ 77° F, cps	200	1700-2100
Specific Gravity	1.24	1.10
Mix ratio, by volume	1	1
Cream Time, seconds		35-55
Gel Time, seconds		120-155
Tack Free Time		On Rise
Demold Time		8-12 minutes @ 77° F
Free Rise Core Density, pcf (ASTM D-1622)		3.5-4.0
Compressive Strength (ASTM D-1621)		70-80 psi
Flexural Strength (ASTM D-790)		85-95 psi
Shear Strength (ASTM C-273)		45-55 psi
Tensile Strength (ASTM D-1623)		90-110 psi
Impact		1.2-1.6 lbs/sq. in.

## Benefits:

- Safe and economical to use
- Convenient kits, easy to use and dispose
- Expands up to 20 times its volume
- Compressive strength 3 to 4 times that of undisturbed soil
- Equal to crushed stone against uplift
- Superior to stone in resistance to overturning
- Helps reduce ground level decay in wood poles
- Reduces labor costs by 50%
- No tamping required



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## Frequently asked questions

Q: Can I use PoleCrete™ on fiberglass poles?

A: Yes. The foam works equally well with fiberglass, wood, metal, or concrete poles.

Q: Is special clothing needed to safely use foam?

A: We recommend wearing gloves and protective glasses when mixing the chemicals. Gloves are provided with 1-gallon, 2-gallon, 3-gallon, and 5-gallon kits.

Q: Will cold temperatures affect the foam?

A: Yes. As with all chemical reactions, low temperatures will slow the reaction. We recommend raising the temperature of the chemicals above 50° F. prior to mixing by simply storing kits in the truck's cab before using.

Q: Is PoleCrete™ ruined if it freezes?

A: No. We formulate PoleCrete™ Stabilizer with ingredients that are not affected by freezing. If freezing occurs, we recommend bringing the chemicals to liquid state by raising the temperature. Then, simply tumble the containers prior to mixing.

Q: In northern climates there are times when we set new poles in the winter. Frequently, before we can put the soil back into the hole, it freezes. Then we cannot properly tamp it. It takes twice as long to tamp a pole under these conditions and we always have to return in the spring to re-tamp and finish the job. This is very costly. Will PoleCrete™ help us?

A: Yes. The bottom of the hole stays 55°-58° (F.) year round. PoleCrete™ Stabilizer is formulated to react at this temperature. We recommend drilling the hole just prior to setting the pole. If this isn't possible, cover the hole with a tarp to prevent wind, snow, or rain from blowing in until you are ready to set the pole. If the hole is left uncovered and freezes, you can still use the foam. Simply put a fire in the hole to warm it. Light a kerosene-soaked rag and throw it in the hole. When the fire goes out, set the pole in, plumb it, mix the PoleCrete™ Stabilizer, and pour the mixture in the hole. In ten minutes the foam is hard enough to hold the pole, so you can move to the next pole. Springtime revisits are not needed.

Q: Can I set a pole in standing water using PoleCrete™?

A: No. We recommend pumping water from the hole prior to foaming. A damp hole will not adversely affect foam.

Q: Will the foam cause the pole to rise from the hole during a flood?

A: No. The amount of buoyancy the foam gives to the pole is as negligible as the amount of flotation tires give to an automobile in a lake.

Q: You always include a pre-assembled mixing blade with PoleCrete™ kits. If a hand drill is not available on site, can we hand stir it to mix the chemicals?

A: No. We recommend always using a drill to insure thorough blending, proper expansion, and maximum strength.

Q: We have been using a competitor's foam out of 55-gallon drums. In order to keep the "B" side mixed we have to stir it at least once a day. Is this necessary with PoleCrete™ Stabilizer?

A: No. We do not add "extenders" to our product because they adversely affect results. Consequently, daily mixing of either of the components is not necessary. Also, because we use only top quality ingredients, we guarantee shelf life for 12 months.

Q: Is PoleCrete™ Stabilizer foam affected by acid soil conditions?

A: No. It's not only not affected by acids, it also keeps the preservatives in wood poles from leaving the poles. If you set new wood poles in foam, you can expect them to last longer. Utility companies have reported virtually no ground line decay on poles set with foam.

Q: Are poles originally set with foam difficult to remove?

A: Yes. This is why companies have used foam to counteract wind uplift on H-frame structures. Poles can be removed by drilling one or two holes next to them and rocking them back and forth. The foam will stay on the pole and can be removed with a shovel or saw. However, by leaving the foam on wood poles that are to be reset, and setting them in new holes with additional PoleCrete™ Stabilizer, the preservatives will remain in the pole, and a much longer pole life should result.

Q: The foam is hard enough in 10 minutes to support a newly set pole. Is it rigid enough in that time to stabilize a leaning pole?

A: Probably not. Since a leaning pole is under load from conductors, it is advisable to hold the pole straight for 15 minutes before releasing it. Unlike straightening a pole using conventional backfill materials (earth, rock riprap), which often requires several trips due to compression, you only have to perform the job once with PoleCrete™ Stabilizer. The foam provides continuous support from the butt of the pole to the ground line with a compressive strength of over 10,000 psf. That's three to four times that of undisturbed earth. This feature alone makes using foam very cost effective.

Q: If more rigid foam is needed in a hole, can more be added?

A: Yes. However, never pour more PoleCrete™ Stabilizer on foam while it is rising. It is recommended to wait five minutes between pours.

**How to calculate how much PoleCrete™ is needed**

The chart at right lists the net volume of an installation by pole diameter (inches) or circumference (inches). Determine Pole Diameter or Circumference (PD) at butt of pole (inches). Determine Auger Size (AS) in inches. From Pole Diameter/Circumference, read across to Auger Size column to determine Gallons of Material per Foot (GpF). Determine Burial Depth (BD) in feet. Multiply the GpF shown in the table by the Burial Depth.

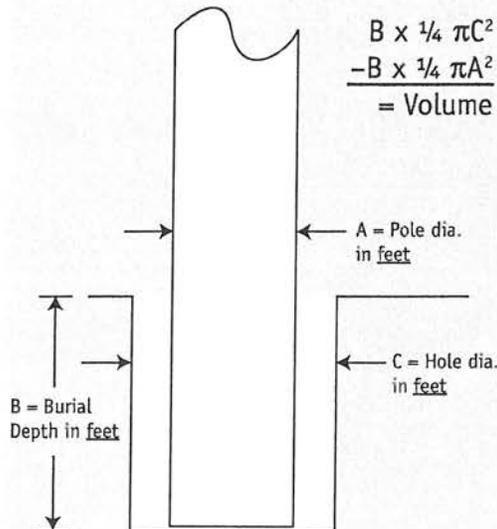
Example:  
PD=10.5; AS=18; BD=5; GpF=0.44

$$0.44 \times 5 = 2.2 \text{ gallons}$$

**Kit Size per Foot of Burial Depth**

Pole Dia. "	Pole Circumference	Auger Diameter (inches)										
		8	10	12	14	16	18	20	22	24	30	36
5	15.7	0.08	0.15	0.25	0.35	0.48	0.62	0.77	0.95	1.14	1.81	2.63
5.5	17.3	0.07	0.14	0.23	0.34	0.47	0.61	0.76	0.94	1.13	1.80	2.61
6	18.8	0.06	0.13	0.22	0.33	0.45	0.59	0.75	0.93	1.12	1.78	2.60
6.5	20.4	0.04	0.12	0.21	0.32	0.44	0.58	0.74	0.91	1.10	1.77	2.59
7	22	0.03	0.11	0.20	0.30	0.43	0.57	0.72	0.90	1.09	1.76	2.58
7.5	23.6	0.02	0.09	0.18	0.29	0.41	0.55	0.71	0.88	1.07	1.74	2.56
8	25.1		0.07	0.17	0.27	0.40	0.54	0.69	0.87	1.06	1.73	2.54
8.5	26.7		0.06	0.15	0.26	0.38	0.52	0.68	0.85	1.04	1.71	2.53
9	28.3		0.04	0.13	0.24	0.36	0.50	0.66	0.83	1.02	1.69	2.51
9.5	29.8		0.02	0.11	0.22	0.34	0.48	0.64	0.81	1.00	1.67	2.49
10	31.4			0.09	0.20	0.32	0.46	0.62	0.79	0.98	1.65	2.47
10.5	33			0.07	0.18	0.30	<b>0.44</b>	0.60	0.77	0.96	1.63	2.45
11	34.6			0.05	0.15	0.28	0.42	0.58	0.75	0.94	1.61	2.43
11.5	36.1			0.02	0.13	0.26	0.40	0.55	0.73	0.92	1.59	2.40
12	37.7				0.11	0.23	0.37	0.53	0.70	0.89	1.56	2.38
12.5	39.3				0.08	0.21	0.35	0.50	0.68	0.87	1.54	2.35
13	40.8				0.06	0.18	0.32	0.48	0.65	0.84	1.51	2.33
13.5	42.4				0.03	0.15	0.29	0.45	0.62	0.81	1.48	2.30
14	44					0.12	0.26	0.42	0.59	0.78	1.45	2.27
14.5	45.6					0.09	0.23	0.39	0.57	0.76	1.42	2.24
15	47.1					0.06	0.20	0.36	0.53	0.72	1.39	2.21
15.5	48.7					0.03	0.17	0.33	0.50	0.69	1.36	2.18
16	50.3						0.14	0.30	0.47	0.66	1.33	2.15
16.5	51.8						0.11	0.26	0.44	0.63	1.30	2.11
17	53.4						0.07	0.23	0.40	0.59	1.26	2.08
17.5	55						0.04	0.19	0.37	0.56	1.23	2.04
18	56.5							0.16	0.33	0.52	1.19	2.01
18.5	58.1							0.12	0.29	0.48	1.15	1.97
19	59.7							0.08	0.25	0.44	1.11	1.93
19.5	61.3							0.04	0.21	0.40	1.07	1.89

You can also use the formula below to calculate the amount you need. In the formula, all dimensions are in feet, not inches.



**How To Order**

Each gallon of PoleCrete™ Stabilizer makes approximately 2.5 cubic feet of rigid backfill. Since PoleCrete™ works well in confined spaces, you may wish to reduce the diameter of augered holes to further reduce costs. Use the formula at left to provide a guideline for how much foam is needed. Order PoleCrete™ in kits of 1 gallon, 2 gallons, 3 gallons, or 5 gallons.

**PoleCrete™ Stabilizer:**

	Catalog Number
1 Gallon Kit	BMK-01-PS
2 Gallon Kit	BMK-02-PS
3 Gallon Kit	BMK-03-PS
5 Gallon Kit*	BMK-05-PS



\*5-Gallon Kit is supplied in a 3-gallon (Part A) bucket and a 6-gallon (Part B) bucket. Contents of 3-gallon bucket are poured into 6-gallon bucket for mixing with supplied mixing blade for 1/4" drill.

Also available: PadCrete™ structural foam for pad transformer stabilization.

