

## C&B PIPING, INC.

P.O. Box 942 Leeds, AL 35094 (205) 699-0455

www.cbpiping.com

### **C&B** Piping Coating Submittal

Exterior Coating:Perma-Glaze Series G435 EpoxyManufacturer:TnemecSurface Prep:Remove oil, grease, and other surface contaminants per NAPF 500-03-01<br/>Abrasive blast clean per NAPF 500-03-04 for pipe, NAPF 500-03-05 for cast fittingsThickness:20 mils Nominal DFT

Notes:

- C&B Piping applies this coating per the Tnemec recommendations specific to ductile iron.
- In order to achieve the 20 mils Nominal DFT for this system, C&B Piping may apply additional thickness within the guidelines published in the Tnemec PDS attached.
- Final thickness will be checked and certified in the shop by C&B Piping per SSPC PA2 TABLE A7 pipe example attached.
- C&B Piping will perform shop holiday detection testing and provide certification. After products leave our shop facility and while not in our direct control, piping will be exposed to physical and environmental changes that can result in failed holiday testing in the field. C&B Piping does not participate in such testing and/or remediation of issues if required.

Handling & Storage:

- Careful handling and effective storage are critical in limiting physical and environmental damage to the coating. Coatings exposed to weather and/or chemical exposure will limit the maximum recoat window and potentially cause adhesion issues.
- C&B Piping will use padded forks and/or nylon slings for loading/packaging to limit scuffing. C&B Piping will use padded dunnage and chocks or rubber separators for pipes. C&B will use padding under the truck straps to limit strap markings on the coating. Palletized products will use separators and padding as necessary to limit scuffing. Pallets will be shrink wrapped with plastic. These methods will reduce the amount of paint scuffing, but cannot fully eliminate all exposure to minor scuffs during transit.
- Contractor must use Nylon Slings or Padded Forks for unloading and movement. Nylon slings are best.
- All products should be stored off the ground on wood dunnage with padding, chocks, and separators in place. Carpet, Foam, or Cardboard are commonly used forms of padding.





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- All products should be stored out of the weather or protected from the weather.
- If field top coating is required, C&B Piping recommends final top coat be applied within 28 days of delivery to jobsite, or shorter if the project specifications require.
- Contractor must repair minor and normal scuff damage. C&B Piping will provide price and availability of repair kits for field repair if requested.





PERMA-GLAZE SERIES G435

GENERIC DESCRIPTION COMMON USAGE COLORS FINISH COATING SYSTEM SURFACER/FILLER/PATCHER PRIMERS INTERMEDIATE SURFACE PREPARATION	fume environments. Series resistance to severe waster 5020 Gray, 5023 Beige. No Gloss Series 215, 217, 218. Steel: Self-priming or Seri anaerobic digesters and o 61, L69, L69F, N69, N69F, Concrete: Self-priming or with G435. Note: Series 6 recommended for use in a for more information.	<ul> <li><sup>6</sup> solids, abrasion-resis</li> <li>s 435 provides low per water environments. C</li> <li>ote: Epoxies chalk with</li> <li>ies 61, L69, L69F, N69, ther severe exposures.</li> <li>V69, or V69F must be</li> </ul>	meation to H <sub>2</sub> S gas, pro contains micro-fiber reinf h extended exposure to N69F, V69, V69F. <b>Note:</b>	esigned for domestic wastev ects against MIC and provid orcement for improved film sunlight.	les chemical				
FINISH COATING SYSTEM SURFACER/FILLER/PATCHER PRIMERS INTERMEDIATE	Gloss Series 215, 217, 218. <b>Steel:</b> Self-priming or Seri anaerobic digesters and o 61, L69, L69F, N69, N69F, <b>Concrete:</b> Self-priming or with G435. <b>Note:</b> Series 6 recommended for use in r for more information.	ies 61, L69, L69F, N69, ther severe exposures. V69, or V69F must be	N69F, V69, V69F. <b>Note:</b>	sunlight.					
SURFACER/FILLER/PATCHER PRIMERS INTERMEDIATE	<b>Steel:</b> Self-priming or Seri anaerobic digesters and o 61, L69, L69F, N69, N69F, <b>Concrete:</b> Self-priming or with G435. <b>Note:</b> Series 6 recommended for use in a for more information.	ther severe exposures. V69, or V69F must be							
PRIMERS	<b>Steel:</b> Self-priming or Seri anaerobic digesters and o 61, L69, L69F, N69, N69F, <b>Concrete:</b> Self-priming or with G435. <b>Note:</b> Series 6 recommended for use in a for more information.	ther severe exposures. V69, or V69F must be							
INTERMEDIATE	anaerobic digesters and o 61, L69, L69F, N69, N69F, <b>Concrete:</b> Self-priming on with G435. <b>Note:</b> Series 6 recommended for use in a for more information.	ther severe exposures. V69, or V69F must be							
	Series 434 or 436 (options	<ul> <li>Steel: Self-priming or Series 61, L69, L69F, N69, N69F, V69, V69F. Note: Series 61 is recommended for use in mesophilic anaerobic digesters and other severe exposures. Contact your Themec representative for more information. Note: Series 61, L69, L69F, N69, N69F, V69, Or V69F must be scarified after 7 days before topcoating with G435.</li> <li>Concrete: Self-priming or Series 61, N69, N69F, 201. Note: Series 201 must be scarified after 24 hours before topcoating with G435. Note: Series 61, N69, or N69F must be scarified after 7 days before topcoating with G435. Note: Series 61, N69, or N69F must be scarified after 7 days before topcoating with G435. Note: Series 61 is recommended for use in mesophilic anaerobic digesters and other severe exposures. Contact your Themec representative for more information.</li> </ul>							
SURFACE PREPARATION	belies 191 of 190 (option	Series 434 or 436 (optional)							
SURFACE PREPARATION	<b>Note:</b> To minimize pinhole formation in the topcoat, it is recommended that concrete substrates be fully resurfaced and/or primed prior to topcoat application.								
	Prepare surfaces by methor recommendations.	od suitable for exposur	re and service. Refer to the	ne appropriate primer data s	sheet for specific				
STEEL	SSPC SP5/NACE 1 White Metal Blast Cleaning with a 3.0 mil minimum angular anchor profile.								
CONCRETE	with ASTM F 1869 "Standa Anhydrous Calcium Chlor hour period), F 2170 "Star humidity should not exce Sheet Method" (no moistu Preparation Standards and surfaces to remove laitand	ard Test Method for Me ide" (moisture vapor fr rdard Test Method for ed 80%), or D 4263 "St ire present). Prepare ce HCRI Technical Guide re, curing compounds,	easuring Moisture Vapor ransmission should not e Determining Relative Hu andard Test Method for oncrete surfaces in accor lines. Abrasive blast, sho hardeners, sealers and c	(24°C). Verify concrete dryn Emission Rate of Concrete S xceed three pounds per 1,0 midity in Concrete using in Indicating Moisture in Conc dance with NACE No. 6/SSF t blast, water jet or mechani ther contaminants and to pr ctions should be filled with	Subfloor Using 00 square feet in a 24 situ Probes" (relative rete by the Plastic CS SP13 Joint Surface ically abrade concrete rovide a minimum				
OTHER SUBSTRATES ALL SURFACES	Contact your Tnemec rep Must be clean, dry and fre								
TECHNICAL DATA									
VOLUME SOLIDS RECOMMENDED DFT	100% (mixed) Steel: 15.0 to 40.0 mils (3 Concrete: 30.0 to 40.0 mil High-Build Option: 40.0 Glaze Coat Option (ove	ils (760 to 1015 micron ) to 125.0 mils (1015 to <b>r Series 434 or 436):</b>	s) in one or two coats. 3175 microns) in one of: 15.0 to 20.0 mils (380 to	o 510 microns).					
	your Tnemec representati		ins will vary with subsul	ate, application method, and	exposure. Contact				
CURING TIME	Temperature	To Touch	Dry Through	To Place in Service	Max. Recoat				
	75°F (24°C)	3 hours	14 hours	2 days	7 days				
	before topcoating. Curing "To Touch" cure informat	time will vary with sun ion for minimum recoa	rface temperature, air mo at times if succeeding coa	<u>3 days</u> Dated surface must be mecha wement, humidity and film ats are spray-applied and "D	thickness. Note: Use				
OLATILE ORGANIC COMPOUNDS	succeeding topcoats are a EPA Method 24 <b>Unthinned:</b> 0.32 lbs/gallo	** *	sh.						
HAPS	0.1 lbs/gal solids								
THEORETICAL COVERAGE	1,604 mil sq ft/gal (39.4 m	n²/L at 25 microns). See	e APPLICATION for cove	rage rates.					
NUMBER OF COMPONENTS	Two: Part A (Epoxy) and	Part B (Amine)							
MIXING RATIO	By volume: One (Part A)	to one (Part B)	By volume: One (Part A) to one (Part B)						

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions or you may contact your Themec representative for current technical data and instructions.

**PRODUCT DATA SHEET** 

# PERMA-GLAZE | SERIES G435

NET WEIGHT PER GALLON STORAGE TEMPERATURE TEMPERATURE RESISTANCE SHELF LIFE FLASH POINT - SETA HEALTH & SAFETY	10.85 ± 0.25 lbs ( Minimum 40°F (4 For optimum har between 70°F an (Dry) Continuous	n Kit Kit	5 gallon pai	il	5 gallon pail	0		
STORAGE TEMPERATURE TEMPERATURE RESISTANCE SHELF LIFE FLASH POINT - SETA	Small † Plural Compon- 10.85 ± 0.25 lbs ( Minimum 40°F (4 For optimum har between 70°F an (Dry) Continuous	Kit			0 1	o g:	allons (30.28 L)	
STORAGE TEMPERATURE TEMPERATURE RESISTANCE SHELF LIFE FLASH POINT - SETA	† Plural Component 10.85 ± 0.25 lbs ( Minimum 40°F (4 For optimum har between 70°F an (Dry) Continuous		3 gallon pa	il	6 gallon pail	5 ga	allons (15.14 L)	
STORAGE TEMPERATURE TEMPERATURE RESISTANCE SHELF LIFE FLASH POINT - SETA	10.85 ± 0.25 lbs ( Minimum 40°F (4 For optimum har between 70°F an (Dry) Continuous		1 gallon car	n	1 gallon can	1 g	allon (3.79 L)	
STORAGE TEMPERATURE TEMPERATURE RESISTANCE SHELF LIFE FLASH POINT - SETA	Minimum 40°F (4 For optimum har between 70°F an (Dry) Continuous	† Plural Component application only.						
TEMPERATURE RESISTANCE Shelf Life Flash Point - Seta	For optimum har between 70°F an (Dry) Continuous	$10.85 \pm 0.25$ lbs (4.92 ± 0.11 kg) (mixed)						
SHELF LIFE Flash point - seta		Minimum 40°F (4°C) Maximum 110°F (43°C) For optimum handling and application characteristics, both material components should be stored or conditioned between 70°F and 80°F (21°C and 27°C) 48 hours prior to use.						
FLASH POINT - SETA		(Dry) Continuous 275°F (135°C) Intermittent 300°F (149°C)						
	12 months at recommended storage temperature.							
HEALTH & SAFETY	Part A: >230°F (110°C) Part B: 184°F (84°C)							
	This product contains chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product. <b>Keep out of the reach of children.</b>							
PLICATION								
COVERAGE RATES	Before commence	ing, obtain and	horoughly read th	e Series 435 Surface	Preparation and	Application G	uide.	
	Conventional B	uild (Spray, Bi	ush, or Roller)		High-Bui	ld (Spray On	ly)	
		Dry Mils	Wet Mils	Sq Ft/Gal (m²/Gal)	Dry Mils	Wet Mils	Sq Ft/Ga	
	Minimum	(Microns)	(Microns)	(m²/Gal) 107 (10.0)	(Microns)	(Microns)	(m²/Gal)	
		15.0 (380)	15.0 (380)		40.0 (1015)	40.0 (1015)	40 (3.7)	
	Maximum	40.0 (1015)	40.0 (1015)	40 (3.7) e condition and syst	125.0 (3175)	125.0 (3175)		
	page 1. Allow for	r overspray and bating below the	surface irregularitie	e condition and systems. Film thickness is the maximum recommendation of the systems of the system	rounded to the r	nearest 0.5 mil	or 5 microns.	
MIXING	coating performa Mix the entire co	ontents of Part A	and Part B separat	ely. Scrape all of th	e Part A into the	Part B using a	flexible spatula.	
MIXING	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed	ontents of Part A beed drill with a ss, scrape the si- material within ed in volume. <b>C</b>	PS Jiffy blade and des and bottom of pot life limits after aution: Do not re	ely. Scrape all of th mix the blended co the container to en agitation. <b>Note:</b> A seal mixed mater	mponents for a n sure all of Parts A large volume of r	ninimum of tw A and B are ble naterial will se	o minutes. Durin ended together. t up quickly if no	
MIXING Thinning	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce	ontents of Part A beed drill with a ss, scrape the si- material within ed in volume. <b>C</b>	PS Jiffy blade and des and bottom of pot life limits after aution: Do not re	mix the blended co the container to en agitation. <b>Note:</b> A	mponents for a n sure all of Parts A large volume of r	ninimum of tw A and B are ble naterial will se	o minutes. Durin ended together. t up quickly if no	
	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes	ntents of Part A seed drill with a ess, scrape the signaterial within ed in volume. <b>C</b> ne to one by vol at 70°F (21°C)	PS Jiffy blade and les and bottom of pot life limits after <b>aution: Do not re</b> ime. 15 to 20 minutes	mix the blended co the container to en agitation. <b>Note:</b> A seal mixed mater	mponents for a n sure all of Parts <i>A</i> large volume of r ial. An explosio	ninimum of tw A and B are ble naterial will se	o minutes. Durin ended together. t up quickly if no	
THINNING	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes	ntents of Part A beed drill with a sss, scrape the si material within ed in volume. <b>C</b> at 70°F (21°C) tures above 80°F at 75°F (24°C)	PS Jiffy blade and les and bottom of pot life limits after <b>uution: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi	mix the blended co the container to en agitation. <b>Note:</b> A seal mixed mater is at 80°F (27°C) cantly reduce the s	mponents for a n sure all of Parts <i>A</i> large volume of r ial. An explosio	ninimum of tw A and B are ble naterial will se	o minutes. Durin ended together. t up quickly if no	
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THINNING Pot Life Spray Life	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes Flush the pump a <b>Airless Spray</b>	entents of Part A beed drill with a sss, scrape the si material within ed in volume. <b>C</b> he to one by vol at 70°F (21°C) tures above 80°F at 75°F (24°C) and lines immed <b>e Ti</b> 58:1 or 0.0	PS Jiffy blade and les and bottom of poot life limits after <b>aution: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi iately after sprayin	mix the blended co the container to en agitation. Note: A seal mixed mater s at 80°F (27°C) cantly reduce the s g.	mponents for a n sure all of Parts <i>A</i> large volume of r <b>ial. An explosio</b> pray and pot life.	ninimum of tw a and B are blk naterial will se <b>n hazard may</b> se ID 1/2"	o minutes. Durin inded together. t up quickly if no <b>be created.</b>	
THINNING Pot Life Spray Life	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes Flush the pump a Airless Spray Pump Siz 45:1, 56:1, X50, 6 X60 Note: Material ne Roller: Use high Brush: Recomm	eed drill with a         seed drill with a         sss, scrape the simaterial within         ed in volume. C:         at 70°F (21°C)         tures above 80°F         at 75°F (24°C)         and lines immed <b>e</b> Ti         58:1 or       0.0.1         (533:1 or       0.0.2         eeds to be gravit       ended for small	PS Jiffy blade and les and bottom of pool life limits after <b>aution: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi iately after sprayin <b>p Orifice</b> 21"-0.025" i35 microns) y fed through a ma L/2" synthetic woiya areas only. Use hig	mix the blended cc the container to en agitation. Note: A seal mixed mater at 80°F (27°C) cantly reduce the s g. Atomizing Pressue 3400-4000 psi (234-276 bar) aterial hopper. Mate en nap roller cover gh quality synthetic	mponents for a n sure all of Parts A large volume of r ial. An explosion pray and pot life. <b>e <u>Mat'l Ho</u></b> <u>3/8" to</u> <u>(9.5 to 12.</u> crial will not feed or nylon bristle t	ninimum of tw a and B are blk naterial will se <b>n hazard may</b> se ID 1/2" 7 mm) through a suc prushes.	o minutes. Durin inded together. t up quickly if no <b>be created.</b> <u>Manifold Filter</u> N/R tion tube.	
THINNING POT LIFE SPRAY LIFE APPLICATION EQUIPMENT	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes Flush the pump a Airless Spray Pump Siz 45:1, 56:1, X50, ( X60 Note: Material ne Roller: Use high Brush: Recomm Plural Compone	entents of Part A         weed drill with a         sss, scrape the simaterial within         ed in volume. C:         he to one by vol         at 70°F (21°C)         tures above 80°F         at 75°F (24°C)         and lines immed         e       Ti         68:1 or       0.0         (533-0)         eeds to be gravit         quality 3/8" to         ended for small         ent: Please cont	PS Jiffy blade and les and bottom of pot life limits after <b>untion: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi iately after sprayin <b>p Orifice</b> 21°-0.025" i35 microns) y fed through a ma /2" synthetic wow areas only. Use hig act your Tnemec re	mix the blended co the container to en agitation. <b>Note:</b> A seal mixed mater at 80°F (27°C) cantly reduce the s g. Atomizing Pressue 3400-4000 psi (234-276 bar) aterial hopper. Mate en nap roller cover gh quality synthetic epresentative or Tn	mponents for a n sure all of Parts A large volume of r ial. An explosion pray and pot life. <b>e Mat'l Ho</b> 3/8" to (9.5 to 12. erial will not feed s. or nylon bristle b emec Technical S	ninimum of tw a and B are blk naterial will se <b>n hazard may</b> <b>ise ID</b> 1/2" 7 mm) through a succord orushes. ervice for information	o minutes. Durin nded together. t up quickly if no <b>be created.</b> <u>Manifold Filter</u> N/R tion tube. mation.	
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THINNING POT LIFE SPRAY LIFE APPLICATION EQUIPMENT	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes Flush the pump a <b>Airless Spray</b> <b>Pump Siz</b> 45:1, 56:1, X50, 0 X60 <b>Note:</b> Material ne <b>Roller:</b> Use high <b>Brush:</b> Recomm <b>Plural Compone</b> Minimum of 50°F should be at leas For optimum har between 70°F an	et al the set of the	PS Jiffy blade and les and bottom of pot life limits after <b>untion: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi iately after sprayin <b>p Orifice 4</b> 21°-0.025" i35 microns) y fed through a ma 1/2" synthetic wow areas only. Use hig act your Tnemec re n 65°F to 80°F (18 e the dew point. ation characteristic 12°C) 48 hours p	mix the blended cc the container to en agitation. <b>Note:</b> A seal <b>mixed mater</b> at 80°F (27°C) cantly reduce the s g. <b>Atomizing Pressu</b> <u>3400-4000 psi (234-276 bar)</u> aterial hopper. Mate en nap roller cover gh quality synthetic epresentative or Tn '9°C to 27°C), maxim cs, both material co rior to use. Temper	mponents for a n sure all of Parts A large volume of r ial. An explosion oray and pot life.	ninimum of tw a and B are blk naterial will se <b>n hazard may</b> <b>see ID</b> 1/2" 7 mm) through a suc prushes. ervice for infor C). The substra- le stored or of he workability	o minutes. Durin inded together. t up quickly if no be created. Manifold Filter N/R tion tube. mation. ate temperature conditioned . Cool temperatu	
THINNING POT LIFE SPRAY LIFE APPLICATION EQUIPMENT SURFACE TEMPERATURE	coating performa Mix the entire co Use a variable sp the mixing proce Apply the mixed applied or reduce Mixing ratio is or <b>DO NOT THIN</b> 25 to 30 minutes Material tempera 20 to 25 minutes Flush the pump siz 45:1, 56:1, X50, 6 <b>Note:</b> Material ne <b>Roller:</b> Use high <b>Brush:</b> Recomm <b>Plural Compon</b> Minimum of 50°F should be at leas For optimum har between 70°F an increase viscosity If required by pro-	entents of Part A weed drill with a sss, scrape the si- material within ed in volume. <b>C</b> he to one by vol at 70°F (21°C) tures above 80°F at 75°F (24°C) and lines immed <b>e Ti</b> (58:1 or 0.0 (533-( ceds to be gravit quality 3/8" to ended for small <b>ent:</b> Please cont 7 (10°C), optimu t 5°F (21°C) abov odding and applie d 80°F (21°C an- y and decrease w	PS Jiffy blade and les and bottom of pot life limits after <b>untion: Do not re</b> ime. 15 to 20 minutes (27°C) will signifi iately after sprayin <b>p Orifice 4</b> 21°-0.025° 35 microns) y fed through a ma 1/2° synthetic wow areas only. Use hig act your Tnemer re n 65°F to 80°F (18 e the dew point. cation characteristic 1 27°C) 48 hours p rorkability. Warm t ns, High Voltage E	mix the blended cc the container to en agitation. Note: A seal mixed mater at 80°F (27°C) cantly reduce the s g. Atomizing Pressur 3400-4000 psi (234-276 bar) aterial hopper. Mate en nap roller cover gh quality synthetic epresentative or Tn %C to 27°C), maxim cs, both material co	mponents for a n sure all of Parts A large volume of r ial. An explosion oray and pot life. re <u>Mat'l Hot</u> 3/8" to (9.5 to 12. erial will not feed or nylon bristle h emec Technical S um of 130°F (54° mponents should ature will affect t cerease viscosity a ) testing shall be	ninimum of two and B are ble naterial will se <b>n hazard may</b> <b>ise ID</b> 1/2" 7 mm) through a succorrushes. ervice for infor C). The substra- le stored or content the performed using	o minutes. Durin nded together. t up quickly if no <b>be created.</b> Manifold Filter N/R tion tube. mation. ate temperature conditioned . Cool temperatu e spray and pot l	

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## MIL THICKNESS VERIFICATION METHOD OF TEST FOR PIPE & PIPE SPOOLS

### TABLE A7

#### NUMBER AND LOCATION OF SPOT MEASUREMENTS - PIPE SPOOLS

PIPE DIAMETER	CIRCUMFERENTIAL SPOT MEASUREMENTS	PA2 INTERVAL SPACING	C&B STANDARD INTERVAL SPACING
UP to 12 INCHES (30 cm)	4 EVENLY SPACED	10 FEET (3 METERS) APART*	4 FEET APART
14 to 24 INCHES (36-60 cm)	6 EVENLY SPACED	10 FEET (3 METERS) APART*	4 FEET APART
GREATER THAN 24 INCHES (60 cm)	8 EVENLY SPACED	10 FEET (3 METERS) APART*	4 FEET APART

\*Table From SSPC-PA2



