

CraftSmart® Fiber Protection Vaults (FPV)



Application

CraftSmart Fiber Protection Vaults (FPV) can be used to securely mount a FieldSmart® Fiber Scalability Center (FSC) 288, 432, 576 or 1,152 port PON cabinet, a 432 or 864 port cross-connect cabinet or FieldSmart Fiber Delivery Point (FDP) pedestal for above grade deployment with below grade slack cable storage. It can also be used in conjunction with a mounting bracket to deploy the FieldSmart SCD Case as a below grade drop cable solution with integrated slack storage. FPVs are equally suited for drop cable, splicing, interconnect and mid-span scenarios, which allows for maximum flexibility and customization in the customers' network.

Description

The Clearfield® CraftSmart product line provides physical fiber protection for products. It completes and delivers a turn-key passive solution from the central office/headend to the customer premise. CraftSmart Fiber Protection Vaults (FPV) provide the most cost-effective thermoplastic enclosures in the industry - meeting and exceeding the industry standards for strength, reliability and environmental concerns.

Formed from a High Density Polyethylene (HDPE) Thermoplastic, these vaults provide a solid base and light-weight material alternative to traditional polymer concrete enclosures. Multiple industry standard sizes can be ordered with solid covers or pre-cut covers to accommodate various FieldSmart cabinet solutions.



Features and Benefits

Integrity

- RUS accepted
- Compliant to Telcordia GR-902
- Compliant to ANSI/SCTE 77 2010 as specified by N.E.C. ANSI C57 Enclosure Integrity
- Compliant to Western Underground Guide 3.6
- Stainless steel hardware

Protection

- Hex head security bolts
- All boxes incorporate a unique "T" style overlapping cover design to reduce soil mitigation into box

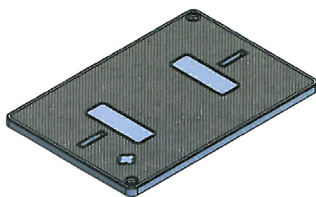
Access

- Multiple cover options, including single piece solid thermoplastic, split thermoplastic, solid or split polymer concrete, provide ease of access and the ability to be used in multiple applications for the products
- Universal mounting bracket (VA-STUB) is available for SCD Case applications
- Mounting bolts and templates are available for HDPE split lids for FieldSmart cabinet mounting
- Custom split lids with cut outs for FieldSmart cabinets

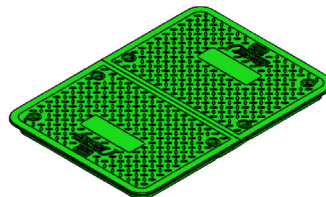
Investment

- High strength rigid construction ensures long term reliability in the harshest environments
- Lighter and easier to handle than concrete, which increases the overall safety factor

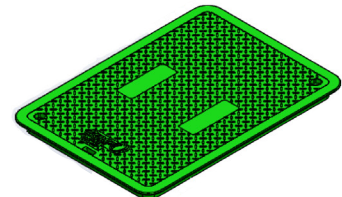
Cover Options



Polymer Concrete Ring and Cover
Application: Sidewalk
Static Load: 20,000 lbs

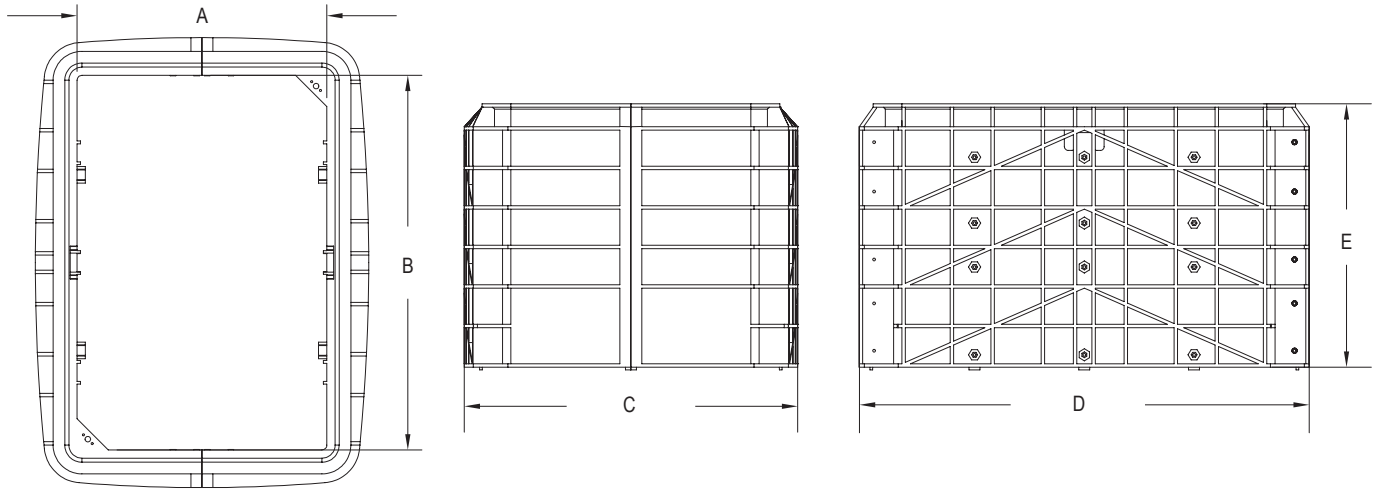


Split Thermoplastic Cover
Application: Greenbelt
Static Load: 5,000 lbs



Standard Thermoplastic Cover
Application: Greenbelt
Static Load: 5,000 lbs

Technical Specifications



Straight Wall	A Inside Dim. Width	B Inside Dim. Width	C Outside Dim. Width	D Outside Dim. Width	E Height	Approx. Weight with HDPE Cover	Recommended Clearfield® Product
17 x 30" (431.80 mm x 762.00 mm)	16 ¹ / ₁₆ " (407.99 mm)	29 ¹ / ₁₆ " (738.19 mm)	22 ¹ / ₁₆ " (560.39 mm)	35 ¹ / ₁₆ " (890.59 mm)	24 ¹ / ₂ " (622.30 mm)	40 lbs (18.14 kg)	YOURx-Terminal
24 x 36" (609.60 mm x 914.40 mm)	22 ³ / ₄ " (577.85 mm)	34 ¹ / ₈ " (866.78 mm)	30 ³ / ₈ " (771.53 mm)	41" (1041.40 mm)	24" (609.60 mm)	83 lbs (37.65 kg)	YOURx-Terminal, FieldSmart® 144, 288 and 432 PON or 432 Cross-Connect Cabinet, Hub Collapse Cabinet
30 x 48" (762.00 mm x 1219.20 mm)	28 ³ / ₄ " (730.25 mm)	46 ¹ / ₈ " (1171.58 mm)	37 ¹ / ₈ " (942.98 mm)	53 ¹ / ₂ " (1358.90 mm)	24 ⁵ / ₈ " (625.48 mm)	195 lbs (88.45 kg)	YOURx-Terminal, FieldSmart 576 or 1,152 PON or 864 or 1,727 Cross-Connect Cabinet, Makwa™

Flared Wall	A Inside Dim. Width	B Inside Dim. Width	C Outside Dim. Width	D Outside Dim. Width	E Height	Approx. Weight with HDPE Cover	Recommended Clearfield Product
36 x 36" (914.40 mm x 914.40 mm)	36 ¹ / ₈ " (917.58 mm)	36 ¹ / ₈ " (917.58 mm)	40 ⁷ / ₈ " - 46 ³ / ₄ " (1038.23 mm - 1187.45 mm)	40 ⁷ / ₈ " - 46 ³ / ₄ " (1039.23 mm - 1187.45 mm)	24" (609.60 mm)	135 lbs (61.24 kg)	YOURx-Terminal, FieldSmart 576 or 1,152 PON or 864 or 1,727 Cross-Connect Cabinet
36 x 48" (914.40 mm x 1219.20 mm)	36 ¹ / ₈ " (917.58 mm)	40 ¹ / ₈ " (1019.18 mm)	40 ⁷ / ₈ " - 46 ³ / ₄ " (1038.23 mm - 1187.45 mm)	52 ⁷ / ₈ " - 58 ³ / ₄ " (1343.03 mm - 1492.25 mm)	24" (609.60 mm)	155 lbs (70.31 kg)	YOURx-Terminal, FieldSmart 576 or 1,152 PON or 864 or 1,727 Cross-Connect Cabinet
36 x 60" (914.40 mm x 1524.00 mm)	36 ¹ / ₈ " (917.58 mm)	60 ¹ / ₈ " (1527.18 mm)	40 ⁷ / ₈ " - 46 ³ / ₄ " (1038.23 mm - 1187.45 mm)	64 ⁷ / ₈ " - 70 ³ / ₄ " (1647.83 mm - 1797.05 mm)	24" (609.60 mm) 36" (914.40 mm)	170 lbs (77.11 kg) 235 lbs (106.59 kg)	YOURx-Terminal, FieldSmart 576 or 1,152 PON or 864 or 1,727 Cross-Connect Cabinet, Makwa

CraftSmart® Fiber Protection Vaults (FPV)



Pre-Configured Part Numbers

FieldSmart® Cabinets

Part Number	Description	Application/Where Used				
		Slack Storage	FDH 144, FSC 288 PON, 432 CC or HCC	FSC 432 PON	FSC 576 & 1,152 PON or 864 & 1,728 CC	Makwa™: Below Grade In Vault
Vault Size – 13" x 24" (330.20 mm x 609.60 mm)						
VAE-FZP	Vault, below grade Pencil, polymer concrete lid, straight wall 13" W x 24" L x 13" D (330.20 mm x 609.60 mm x 303.20 mm)	✓				
VAD-FZP	Vault, below grade Pencil, polymer concrete lid, straight wall 13" W x 24" L x 18" D (330.20 mm x 609.60 mm x 457.20 mm)	✓				
Vault Size – 17" x 30" (431.80 mm x 762.00 mm)						
V5A-AZP	Vault, below grade Pencil, solid HDPE lid, hex bolts, green, straight wall 17" W x 30" L x 24" D (431.80 mm x 762.00 mm x 609.60 mm)	✓				
V5A-DZP	Vault, below grade Pencil, solid polymer concrete lid, hex bolts, gray, straight wall 17" W x 30" L x 24" D (431.80 mm x 762.00 mm x 609.60 mm)	✓				
VA-1730-3	Spacer for below grade Pencil vault 17" W x 30" L x 3" High (431.80 mm x 762.00 mm x 76.20 mm)		Optional 3" Spacer			
Vault Size – 24" x 36" (609.60 mm x 914.40 mm)						
V6A-AZP	Vault, below grade Pencil, solid HDPE lid, hex bolts, green, straight wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓				
V6D-AZP	Vault, below grade Pencil, solid HDPE lid, hex bolts, green, straight wall 24" W x 36" L x 18" D (609.60 mm x 914.40 mm x 457.20 mm)	✓				
V6A-BZP	Vault, below grade Pencil, split HDPE lid, hex bolts, green, straight wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓				
V6A-CZP	Vault, below grade Pencil, split HDPE Lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included		
V6A-DZP	Vault, below grade Pencil, solid polymer concrete lid, hex bolts, gray, straight wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓				
V6A-DZP-F	Vault, below grade Pencil, solid polymer concrete lid, hex bolts, gray, flared wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓				
V6B-AZP	Vault, below grade Pencil, solid HDPE lid, hex bolts, green, straight wall 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm)	✓				
V6B-BZP	Vault, below grade Pencil, split HDPE lid, hex bolts, green, straight wall 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm)	✓				
V6B-CZP	Vault, below grade Pencil, split HDPE Lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included		
V6B-DZP	Vault, below grade Pencil, solid polymer concrete lid, hex bolts, gray, straight wall 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm)	✓				
VA-2436-6	Spacer for below grade Pencil vault 24" W x 36" L x 6" H (609.60 mm x 914.40 mm x 152.40 mm)		Optional 6" Spacer			

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FieldSmart® Cabinets

Part Number	Description	Application/Where Used				
		Slack Storage	FDH 144, FSC 288 PON, 432 CC or HCC	FSC 432 PON	FSC 576 & 1,152 PON or 864 & 1,728 CC	Makwa™: Below Grade In Vault
Vault Size – 30" x 48" (762.00 mm x 1219.20 mm)						
V7A-AZP	Vault, below grade Pencell, solid HDPE lid, hex bolts, green, straight wall 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)	✓				
V7A-AZP-F	Vault, below grade Pencell, solid HDPE lid, hex bolts, green, flared wall 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)	✓				
V7A-BZP	Vault, below grade Pencell, split HDPE lid, hex bolts, green, straight wall 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)	✓				
V7A-CZP	Vault, below grade Pencell, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V7A-EZP	Vault, below grade Pencell, split polymer concrete lid, hex bolts, gray, straight wall, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)	✓				
V7B-AZP	Vault, below grade Pencell, solid HDPE lid, hex bolts, green, straight wall 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)	✓				✓
V7B-BZP	Vault, below grade Pencell, split HDPE lid, hex bolts, green, straight wall 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)	✓				✓
V7B-CZP	Vault, below grade Pencell, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V7B-EZP	Vault, below grade Pencell, split polymer concrete lid, hex bolts, gray, straight wall 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)	✓				✓
V7B-AZP-SARM	Vault, below grade Pencell, solid HDPE lid, hex bolts, green, straight wall, with swing arm 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)					✓
V7B-BZP-SARM	Vault, below grade Pencell, split HDPE lid, hex bolts, green, straight wall, with swing arm 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)					✓
V7B-EZP-SARM	Vault, below grade Pencell, split polymer concrete lid, hex bolts, green, straight wall, with swing arm 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)					✓
VA-3048-6	Spacer for below grade Pencell vault 30" W x 48" L x 6" H (762.00 mm x 1219.20 mm x 152.40 mm)		Optional 6" Spacer			
Vault Size: 36" x 36" (914.40 mm x 914.40 mm)						
VBA-AZP-F	Vault, below grade Pencell, solid HDPE lid, hex bolts, green, flared wall 36" W x 36" L x 24" D (914.40 mm x 914.40 mm x 609.60 mm)	✓				
VBA-BZP-F	Vault, below grade Pencell, split HDPE lid, hex bolts, green, flared wall 36" W x 36" L x 24" D (914.40 mm x 914.40 mm x 609.60 mm)	✓				
VBA-CZP-F	Vault, below grade Pencell, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 36" L x 24" D (914.40 mm x 914.40 mm x 609.60 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
VBA-EZP-F	Vault, below grade Pencell, split polymer concrete lid, hex bolts, gray, flared wall 36" W x 36" L x 24" D (914.40 mm x 914.40 mm x 609.60 mm)	✓				

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Pre-Configured Part Numbers

FieldSmart® Cabinets

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		Slack Storage	FDH 144, FSC 288 PON, 432 CC or HCC	FSC 432 PON	FSC 576 & 1,152 PON or 864 & 1,728 CC	Makwa™: Below Grade In Vault
Vault Size: 36" x 36" (914.40 mm x 914.40 mm) Continued						
VA-3636-6-GREEN	Spacer for below grade Pencil vault, for HDPE lids 36" W x 36" L x 6" H (914.40 mm x 914.40 mm x 152.40 mm)	Optional 6" spacer for green HDPE lids				
VA-3636-6-GRAY	Spacer for below grade Pencil vault, for PC lids 36" W x 36" L x 6" H (914.40 mm x 914.40 mm x 152.40 mm)	Optional 6" spacer for gray polymer concrete lids				
Vault Size: 36" x 48" (914.40 mm x 1219.20 mm)						
V3A-AZP-F	Vault, below grade Pencil, solid HDPE lid, hex bolts, green, flared wall 36" W x 48" L x 24" D (914.40 mm x 1219.20 mm x 609.60 mm)	✓				
V3A-BZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, flared wall 36" W x 48" L x 24" D (914.40 mm x 1219.20 mm x 609.60 mm)	✓				
V3A-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 48" L x 24" D (914.40 mm x 1219.20 mm x 609.60 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V3G-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 48" L x 30" D (914.40 mm x 1219.20 mm x 762.00 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V3B-CFP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 48" L x 36" D (914.40 mm x 1219.20 mm x 914.40 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
VA-3648-6	Spacer for below grade Pencil vault 36" W x 48" L, 6" High (914.40 mm x 1219.20 mm, 152.4 mm H)	Optional 6" Spacer				
Vault Size: 36" x 60" (914.40 mm x 1524.00 mm)						
V8A-BZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, flared wall 36" W x 60" L x 24" D (914.40 mm x 1524.00 mm x 609.60 mm)	✓				
V8A-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 60" L x 24" D (914.40 mm x 1524.00 mm x 609.60 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V8A-EZP-F	Vault, below grade Pencil, split polymer concrete lid, hex bolts, gray, flared wall 36" W x 60" L x 24" D (914.40 mm x 1524.00 mm x 609.60 mm)	✓				
V8B-BZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, flared wall, no floor 36" W x 60" L x 36" D (914.40 mm x 1524.00 mm x 914.40 mm)	✓				✓
V8B-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 60" L x 36" D (914.40 mm x 1524.00 mm x 914.40 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V8B-EZP-F	Vault, below grade Pencil, split polymer concrete lid, hex bolts, gray, flared wall 36" W x 60" L x 36" D (914.40 mm x 1524.00 mm x 914.40 mm)	✓				✓
V8C-AZP-F	Vault, below grade Pencil, Solid HDPE Lid, hex bolts, green, flared wall 36" W x 60" L x 48" D (914.40 mm x 1524.00 mm x 1219.20 mm)	✓				✓
V8C-BZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, flared wall 36" W x 60" L x 48" D (914.40 mm x 1524.00 mm x 1219.20 mm)	✓				✓

Pre-Configured Part Numbers

FieldSmart® Cabinets

Part Number	Description	Application/Where Used				
		Slack Storage	FDH 144, FSC 288 PON, 432 CC or HCC	FSC 432 PON	FSC 576 & 1,152 PON or 864 & 1,728 CC	Makwa™: Below Grade In Vault
Vault Size: 36" x 60" (914.40 mm x 1524.00 mm) Continued						
V8F-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 60" L x 42" D (914.40 mm x 1524.00 mm x 1066.80 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
V8C-EZP-F	Vault, below grade Pencil, split polymer concrete lid, hex bolts, gray, flared wall 36" W x 60" L x 48" D (914.40 mm x 1524.00 mm x 1219.20 mm)	✓				✓
V8G-CZP-F	Vault, below grade Pencil, split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, flared wall, with bolt kit 36" W x 60" L x 30" D (914.40 mm x 1524.00 mm x 762.00 mm)		✓ Bolt Kit Included	✓ Bolt Kit Included	✓ Bolt Kit Included	
VA-3660-6	Spacer, for below grade Pencil vault 36" W x 60" L, 6" High (914.40 mm x 1524.00 mm, 152.40 mm H)	Optional 6" Spacer				

FieldSmart Electronics Cabinets

Part Number	Description	Application/Where Used
		Electronic Cabinet
Vault Size: 36" x 60" (914.40 mm x 1524.00 mm) Continued		
V8F-CZP-F	Vault, below grade Pencil, solid polymer concrete lid, hex bolts, gray, flared wall 48" W x 48" L x 24" D (1219.20 mm x 1219.20 mm x 609.60 mm)	✓
VA-3660-6	Spacer for below grade Pencil vault 48" W x 48" L x 6" H (1219.20 mm x 1219.20 mm x 152.40 mm)	Optional 6" Spacer

PON in Pedestal

Part Number	Description	Application/Where Used
		144 PON in Pedestal
Pedestal on Lid - Vault Size: 24" x 36" (609.60 mm x 914.40 mm)		
VXZ-ZZZ-02-P	Below grade vault only, split lid, I-bolt, green, telecommunications, 12 x 12" (304.80 mm x 304.80 mm) hole for pedestal mount, straight wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓
FPP-121230-DG-PED	Pedestal cover/bracket for vault above 12 x 12 x 30" (304.80 mm x 304.80 mm x 762.00 mm)	✓
V6A-ZZZ-03-P	Below grade vault and pedestal cover with bracket split lid, I-bolt, green, telecom, 12 x 12" (304.80 mm x 304.80 mm) pedestal cover with bracket, straight wall 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm)	✓
Pedestal on Lid - Vault Size: 30" x 48" (762.00 mm x 1219.20 mm)		
V7A-ZZZ-01-P	Below grade vault and pedestal cover with bracket, split lid, I-bolt, green, telecom, 12 x 12" (304.80 mm x 304.80 mm) pedestal cover with bracket, straight wall 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm)	✓
V7B-ZZZ-02-P	Below grade vault and pedestal cover with bracket, split lid, I-bolt, green, telecom, 12 x 12" (304.80 mm x 304.80 mm) pedestal cover with bracket, straight wall 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm)	✓