

Below Grade Enclosure Selection Guide

Amphenol Charles Industries delivers superior protection solutions for underground equipment and buried network components. We offer a wide selection of enclosures to safely house fiber optics, meter/junction boxes, wireless network materials, traffic signals, and more. Each of our Tier Rated Underground Enclosures (TRUE™) and Charles Below Grade Enclosures (CBGE) is engineered for optimal durability and easy management, keeping your equipment safe and accessible in a variety of underground conditions. This selection guide will help you identify the right enclosure for your underground spaces.



LEGEND:

The below grade enclosures are color coded to specify the Tier level that is required for the given application. ■ CBGE ■ TRUE Tier 15 & 22

All applications shown below are Non-deliberate Traffic.

RESIDENTIAL AREAS

For areas where pedestrian-only traffic is expected,

CBGE enclosures are a great fit. Such spaces include:

- Grassy areas not adjacent to vehicle traffic
- Behind or beside structures where only foot traffic is expected

NEAR SIDEWALKS & IN GRASSY AREAS

If non-deliberate vehicular traffic is possible, **TRUE** enclosures are engineered to withstand the occasional traffic. Such spaces may include:

- Crosswalks
- Road-adjacent greenways / landscaped areas

Pedestrian-only sidewalk spaces are good placement options for **CBGE** enclosures, such as:

- Grassy areas non-adjacent to the road
- Sidewalks and walkways non-adjacent to the road

PARKING LOTS

Consider tier-rated **TRUE** enclosures where non-deliberate vehicular traffic may occur. The following areas include:

- Front center of parking spaces not likely to bear the full weight of a vehicle
- Alongside buildings where vehicular traffic is unlikely

CBGE enclosures are structurally sufficient for areas of pedestrian-only traffic.

Such areas include:

- Landscaped areas within parking lots

DIVIDED ROADWAYS

TRUE enclosures are the best solution for divided roadways where non-deliberate vehicular traffic may be possible. Such areas may include:

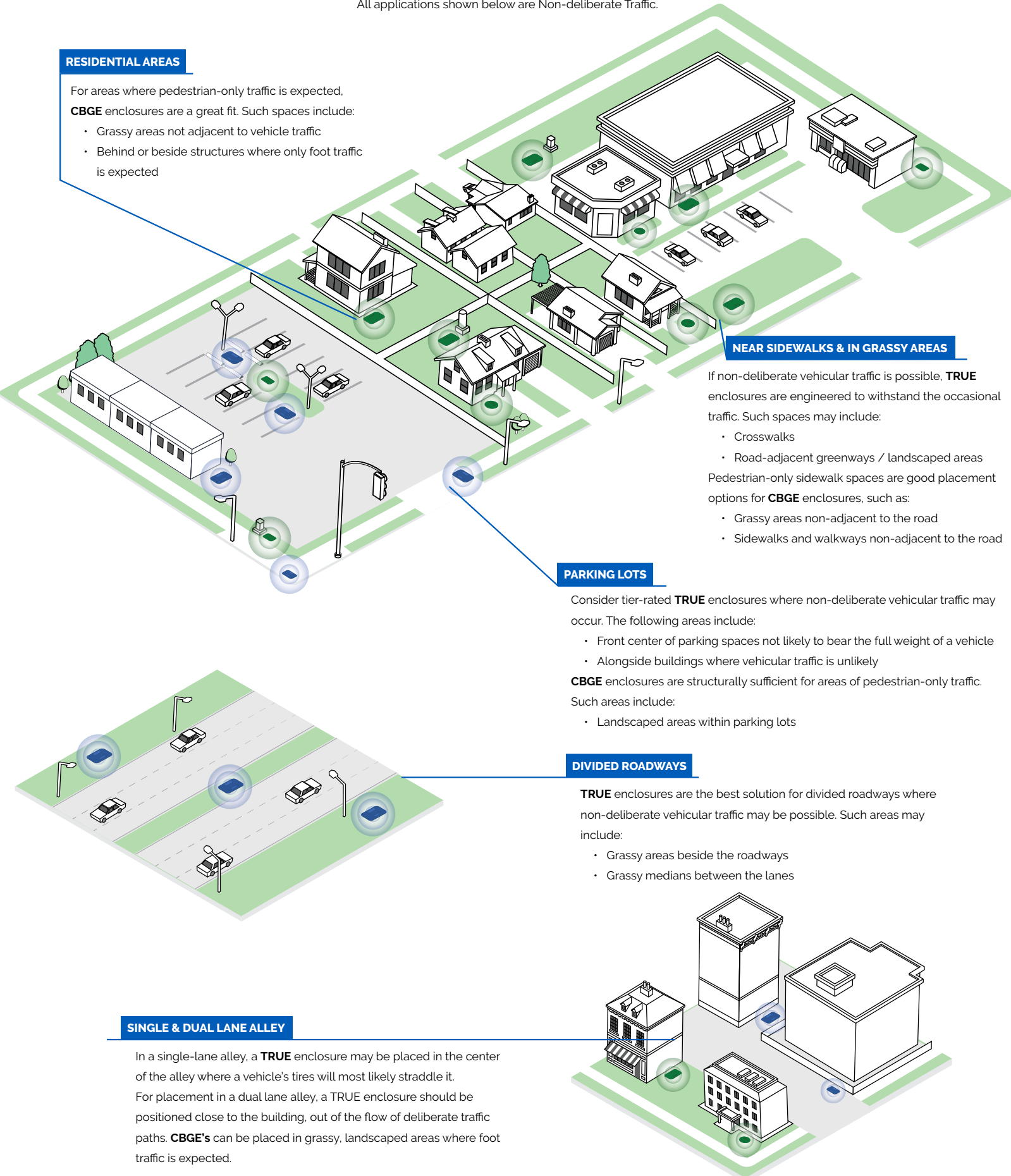
- Grassy areas beside the roadways
- Grassy medians between the lanes

SINGLE & DUAL LANE ALLEY

In a single-lane alley, a **TRUE** enclosure may be placed in the center of the alley where a vehicle's tires will most likely straddle it.

For placement in a dual lane alley, a **TRUE** enclosure should be positioned close to the building, out of the flow of deliberate traffic paths.

CBGE's can be placed in grassy, landscaped areas where foot traffic is expected.





Charles Below Grade Enclosures (CBGE) - Greenway/Light-Duty

CBGE enclosures feature lightweight High-Density Polyethylene (HDPE) construction handholes, which are designed for Light-Duty applications. Designed for light-duty placements (parkway/greenbelt applications), these sturdy below-grade enclosures provide technicians with easy access to splice cases, control valves, slack cables, and other equipment at network junctions. Several security bolt patterns are available.



	P060010	P100010	P141912	P142015	P132415	P173018	P243624
Appx. Dimensions	06"W x 00"L x 10"D	10"W x 00"L x 10"D	14"W x 19"L x 12"D	14"W x 20"L x 15"D	13"W x 24"L x 15"D	17"W x 30"L x 18"D	24"W x 36"L x 24"D
Cover Wgt. (Overlapping Cover)	0.25 lb.	1 lb.	2 lbs.	6 lbs.	5 lbs.	11 lbs.	20 lbs.
Base Weight	1.0 lb.	3 lbs.	6 lbs.	12 lbs.	19 lbs.	21 lbs.	47 lbs.
Assembly Wgt.	1.25 lbs.	4 lbs.	8 lbs.	18 lbs.	25 lbs.	32 lbs.	67 lbs.
Pallet Quantity	500	180	78	100	30	10	6
Loaded Pallet Wgt.	675 lbs.	770 lbs.	635 lbs.	1850 lbs.	800 lbs.	370 lbs.	402 lbs.
Split Cover	—	—	—	—	—	✓	✓
Split Cover w/ Ped Cut-Out	—	—	—	—	—	✓	✓
Applications							

Tier Rated Underground Enclosures (TRUE™) - Tier 15/Tier 22

TRUE enclosures are made lightweight and rugged, and they feature an Advanced Composite Material (ACM) formulation that, when molded, delivers superior performance and structural integrity. A tapered wall design provides greater volume compared to competitive models of the same cover size. These enclosures are stackable, ergonomic, and designed to facilitate easier and safer technician access. TRUE 15 Series meets ANSI/SCTE-77 Tier 15 Rated Loadings specifications. TRUE 22 Series meets ANSI/SCTE-77 Tier 22 Rated Loadings specifications.



Cover Size	17" x 30"				24" x 36"				30" x 48"				30" x 60"						
Depth	18"	24"	30"	36"	18"	24"	30"	36"	18"	24"	30"	36"	18"	24"	30"	36"			
Volume	7.8ft³		N/A	N/A	9ft³	12ft³	15.1ft³	18.3ft³	N/A	20ft³		30.2ft³		N/A	N/A	N/A	20 lbs.		
Cover Wgt. (T15)	26 lbs.				50 lbs.	50 lbs.	50 lbs.	50 lbs.		82 lbs.	82 lbs.		82 lbs.				94 lbs. (47x2)		
Base Wgt. (T15)	52 lbs.				44 lbs.	66 lbs.	71 lbs.	79 lbs.		87 lbs.	120 lbs.		120 lbs.				161 lbs.		
Total Wgt. (T15)	78 lbs.				94 lbs.	116 lbs.	121 lbs.	129 lbs.		169 lbs.	202 lbs.		202 lbs.				255 lbs.		
Cover Wgt. (T22)	26 lbs.		N/A	N/A	50 lbs.	50 lbs.	50 lbs.	50 lbs.	N/A	82 lbs.		82 lbs.		N/A	N/A	N/A	100 lbs. (50x2)		
Base Wgt. (T22)	58 lbs.				48 lbs.	72 lbs.	82 lbs.	89 lbs.		94 lbs.	130 lbs.		130 lbs.				161 lbs.		
Total Wgt. (T22)	84 lbs.				98 lbs.	122 lbs.	132 lbs.	149 lbs.		176 lbs.	212 lbs.		212 lbs.				261 lbs.		
Pallet Qty.	8/pallet				8/pallet		6/pallet			8/pallet		6/pallet					6/pallet		4/pallet
Split Cover	Not Available				Available				Available				Split Cover Only						
Applications																			



Combo CPAD

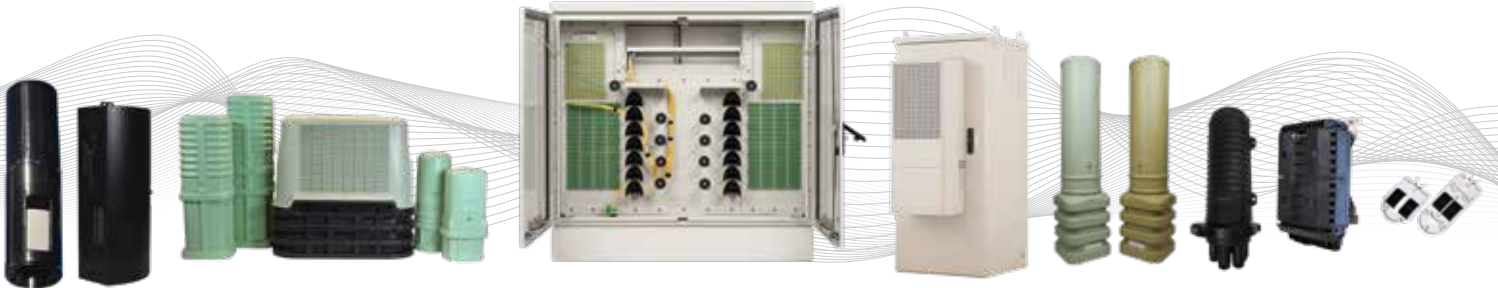
Charles Integrated CPAD or a Combo CPAD is a comprehensive solution featuring a 30"x48" TRUE split cover. This innovative product is specifically designed for the seamless installation of Amphenol Charles Industries, CommScope or Corning Fiber Distribution Hubs. It offers ample space beneath the pad and cover, ideal for securely housing sealed fiber splice cases and cable slack storage. Crafted from advanced composite materials, the enclosure is both lightweight, ensuring easy placement, and structurally robust. It meets the stringent standards of Tier 8 (with a vertical design load of 8,000 lbs. and a test load of 12,000 lbs.) and Tier 15 (with a vertical design load of 15,000 lbs. and a test load of 22,000 lbs.) load rating specifications guaranteeing the integrity of underground enclosures.

About Amphenol Charles Industries

Founded in 1968, Amphenol Charles Industries is a manufacturing and technology company based in Schaumburg, Illinois, with North American manufacturing centers in the US and Mexico. Charles provides a comprehensive line of active, passive, metallic and non-metallic environmental enclosure solutions for communications and power distribution applications serving the wireless, telecommunications, broadband cable, utility, EV charging, and edge compute markets worldwide.

Amphenol Corporation, a world leader in antenna, optics, and interconnect solutions with more than 100,000 employees serving 70 countries worldwide, acquired Charles in April 2019. Today, Charles operates as an Amphenol Company, leveraging Amphenol's global resources and innovative technologies to create new, bundled solutions for customers.

- Cabinet & Enclosures
- Concealment & Pole Solutions
- Pedestals & Housings
- Splice Closures & Terminals
- Fiber Optic Solutions
- Below Grade Enclosures
- NID Boxes
- Accessories



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