



Job/Client Name:	
Location:	
Notes:	

Alliance products
are designed and
built in the USA.



Round Tapered Fiberglass Light Poles

Direct Bury

Standard, Intermediate, Heavy, and Extra Heavy Duty

Product Offering Includes:

- o Direct Bury poles to fit your specific wind zone and loading requirements.
- o 15-40' lengths.
- o 3-Layers of protection against UV degradation. Includes thermally bonded outer coating.
- o Surface finish options include natural and smooth.
- o Ground line protection.
- o Multiple hand hole size options.
- o 2-3/8", 3" Tenons or Top Cap available.
- o Standard Colors in black, bronze, and gray (other colors available by request).
- o Light Weight, Non-Conductive, and Non-Corrosive.

Product Numbers and EPA Ratings^{1,2}

Standard Duty

Overall Length	Above Ground	Catalog Number	Calculated Effective Projected Area (EPA) ^{1,2}							Additional Information	
			90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	Burial Depth (feet)	Weight of the Pole ⁵
15	12	D3TS15F00N##GXHH	8.7	6.6	5.0	3.8	3.0	2.8	2.3	3	27
16	12	D4TS16F00N##GXHH	8.7	6.6	5.0	3.8	3.0	2.8	2.3	4	32
17	13	D4TS17F00N##GXHH	8.6	6.5	4.9	3.7	2.8	2.7	2.2	4	34
18	14	D4TS18F00N##GXHH	8.5	6.3	4.7	3.5	2.7	2.5	2.1	4	35
20	16	D4TS20F00N##GXHH	8.8	6.5	4.8	3.5	2.7	2.6	2.1	4	39
22	18	D4TS22F00N##GXHH	8.9	6.4	4.5	3.5	2.9	2.7	2.2	4	48
24	20	D4TS24F00N##GXHH	9.1	6.5	4.6	3.6	3.0	2.8	2.3	4	53
25	20	D5TS25F00N##GXHH	10.1	7.3	5.3	4.2	3.4	3.3	2.7	5	59
30	25	D5TS30F00N##GXHH	10.8	7.6	5.8	4.5	3.7	3.5	2.9	5	73

Visit alliancecompositesinc.com for a full list of products and EPA ratings up to 180 mph.



Alliance™ Round Tapered, 25', direct bury, fiberglass light pole.



Responsive

Alliance™ provides dependable service from quote to delivery. Our experienced product experts and attractive lead times combine to deliver industry leading service.



Lasting

Our Alliance™ light poles have superior UV protection, which creates an ultra-low maintenance product. Fiberglass is non-conductive and non-corrosive creating ideal installation and service conditions.



Versatile

Alliance™ offers options for nearly every climate and application. Products are lightweight, easy to install, and configurable to fit the needs of any project.

Product Numbers and EPA Ratings^{1,2}

Intermediate Duty

Overall Length	Above Ground	Catalog Number	Calculated Effective Projected Area (EPA) ^{1,2}							Additional Information	
			90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph		
15	12	D3TI15F00N##GXHH	11.9	9.3	7.3	5.8	4.7	4.4	3.7	3	31
16	12	D4TI16F00N##GXHH	11.9	9.2	7.2	5.7	4.6	4.3	3.6	4	35
17	13	D4TI17F00N##GXHH	11.9	9.1	7.1	5.5	4.4	4.2	3.5	4	37
18	14	D4TI18F00N##GXHH	11.8	9.0	7.0	5.4	4.3	4.1	3.4	4	38
20	16	D4TI20F00N##GXHH	12.1	9.2	7.0	5.4	4.3	4.1	3.5	4	41
22	18	D4TI22F00N##GXHH	12.2	9.1	6.8	5.4	4.5	4.3	3.6	4	49
24	20	D4TI24F00N##GXHH	12.4	9.1	6.8	5.5	4.5	4.3	3.6	4	57
25	20	D5TI25F00N##GXHH	13.7	10.2	7.7	6.2	5.2	5.0	4.2	5	68
30	25	D5TI30F00N##GXHH	15.8	11.6	9.1	7.4	6.1	5.9	4.9	5	84

Heavy Duty

Overall Length	Above Ground	Catalog Number	Calculated Effective Projected Area (EPA) ^{1,2}							Additional Information	
			90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph		
15	12	D3TH15F00N##GXHH	15.2	11.9	9.4	7.5	6.2	5.9	5.0	3	35
16	12	D4TH16F00N##GXHH	15.2	11.9	9.4	7.5	6.2	5.9	5.0	4	37
17	13	D4TH17F00N##GXHH	15.2	11.8	9.3	7.4	6.1	5.8	4.9	4	39
18	14	D4TH18F00N##GXHH	15.2	11.8	9.2	7.3	5.9	5.7	4.8	4	41
20	16	D4TH20F00N##GXHH	15.5	11.9	9.3	7.3	6.0	5.7	4.8	4	42
22	18	D4TH22F00N##GXHH	15.6	11.8	9.1	7.3	6.2	5.9	5.0	4	50
24	20	D4TH24F00N##GXHH	15.7	11.8	9.0	7.3	6.1	5.9	4.9	4	60
25	20	D5TH25F00N##GXHH	17.9	13.6	10.5	8.6	7.2	6.9	5.9	5	77
30	25	D5TH30F00N##GXHH	22.5	17.0	13.6	11.1	9.4	9.0	7.6	5	94

Extra Heavy Duty

Overall Length	Above Ground	Catalog Number	Calculated Effective Projected Area (EPA) ^{1,2}							Additional Information	
			90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph		
15	12	D3TE15F00N##GXHH	18.4	14.5	11.6	9.3	7.7	7.4	6.3	3	37
16	12	D4TE16F00N##GXHH	18.4	14.5	11.6	9.3	7.7	7.4	6.3	4	39
17	13	D4TE17F00N##GXHH	18.5	14.5	11.5	9.3	7.6	7.3	6.2	4	41
18	14	D4TE18F00N##GXHH	18.5	14.4	11.4	9.2	7.5	7.2	6.2	4	43
20	16	D4TE20F00N##GXHH	18.8	14.6	11.5	9.1	7.6	7.2	6.2	4	44
22	18	D4TE22F00N##GXHH	18.9	14.5	11.3	9.2	7.8	7.4	6.3	4	53
24	20	D4TE24F00N##GXHH	19.1	14.5	11.3	9.2	7.8	7.4	6.3	4	63
25	20	D5TE25F00N##GXHH	24.1	18.6	14.6	12.1	10.2	9.8	8.4	5	81
30	25	D5TE30F00N##GXHH	32.4	25.1	20.3	16.7	14.2	13.6	11.7	5	99



Alliance™ Round Tapered, 25', direct bury, fiberglass light pole.



Alliance™ Round Tapered, 20', direct bury, fiberglass light pole.

 Visit alliancecompositesinc.com for a full list of products and EPA ratings up to 180 mph.

Hand Hole Options²

Hand Hole and Cover²

2½" x 5" Hand Hole is standard. 4"x 6" and 4"x 12" Hand Holes available on most poles. The EPA ratings may be affected when using Hand Holes other than 2½" x 5". Covers are made of a durable, weather resistant material, color matched to the pole. Hand hole located at 18" above ground level.



Backer Bar and Tether

Backer Bar and Tether available (individually or as a set) on our 4"x 6" and 4"x 12" Hand Hole Covers.

Hand Hole Tethers are available for covers with Backer Bar



Additional Options

- I.D. Tag
- Ground Line Locator
- Non-Standard Ground Line Entry Hole Sizes
- Grommets for Cable Entry locations



Ground Line Durability

Pole Guard

UV resistant, high impact material. Designed to protect against mower decks, string trimmers, and other lawn care equipment.



Base Covers³

Weed Eater Cover

The Weed Eater Cover is an epoxy resin two-piece cover, placed around the base of the light pole.



Base Shroud

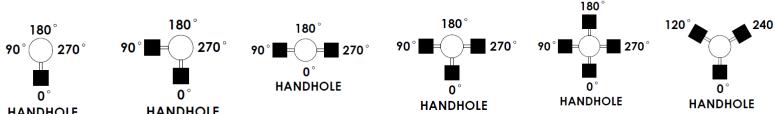
Base Covers are urethane and come in one and two-piece variants, color matched to pole. May have extended lead time.



Pole Specifics

Pole Shaft

Poles are filament wound utilizing continuous glass fiber reinforcement within a thermoset resin system. This process allows for flexibility to design poles with targeted strength profiles, resulting in a line of poles providing optimized performance, weight, and cost across a variety of applications.



Product Finish³

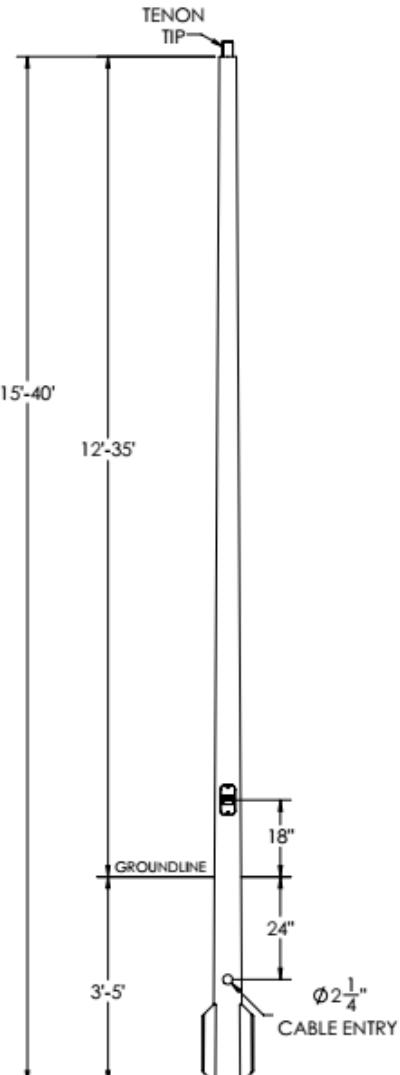
Poles are available in a Natural and Smooth finish. All round poles include 3-layers of UV protection, including a thermally bonded outer coating. Colors include black, bronze, and gray.

Drilling⁴

All poles are factory drilled to specifications outlined in the manufacturing drawing.

Mounting Options

Tenon or Side Drill Mount applications available. Side Drill orientation and luminaire drilling locations and patterns must be supplied at time of order.



Integral Anti-Rotation Flange

Direct bury poles are manufactured with an integral, anti-rotation flange to support product reliability and longevity.

Tenons and Top Caps

Aluminum tenon or plastic top cap is shipped, assembled to the pole. For top mount luminaires, 2-3/8" and 3" diameter tenons are standard. Custom tenons available.

Catalog Number

Example: D6TS30F00N2G0001: Direct Bury, 6' Burial Depth, Standard Duty, 30', Natural Finish, with 2 3/8" Tenon in Gray.

D	T	S	F	O	O	N					
Base Info	Depth or Base	Pole Geometry	Class	Length (ft)	Unit	Length (in)	Finish	Options	Color	Drill Code	
D Direct Burial	If Direct Burial, depth (ft.), # If Anchor Base, base mounting diameter (in.), #	T Round Taper	S Standard Duty	##	F Feet	## Standard 00	N Natural	1 Cap	A Black	Specific Drill Pattern 4-digit unique identifier (Contact Alliance)	
A Anchor Base		S Square Straight	I Intermediate Duty				S Smooth	2 2 3/8" Tenon	F Bronze		
		F Fluted	H Heavy Duty					3 3" Tenon	G Gray		
			E Extra Heavy Duty					C Custom	N Green		
			C Custom (Contact Alliance)					Tenor (Contact Alliance)	W White		

Options and Accessories - Select and refer to Customer Service

Pole Options²

2 1/2" x 5" Hand Hole Cover (Standard)

4" x 6" Hand Hole Cover

4" x 6" Universal Hand Hole Cover, 8" Backer Bar

4" x 12" Universal Hand Hole Cover, 14" Backer Bar

Hand Hole Tether

I.D. Tag

Non-Standard Cable Entry (Standard is 2 1/4" Round)

Cable Entry Grommet

Ground Line Indicator

Pole Guard, 1-Piece, 20", Installed at factory (Black or Bronze)

Accessories³

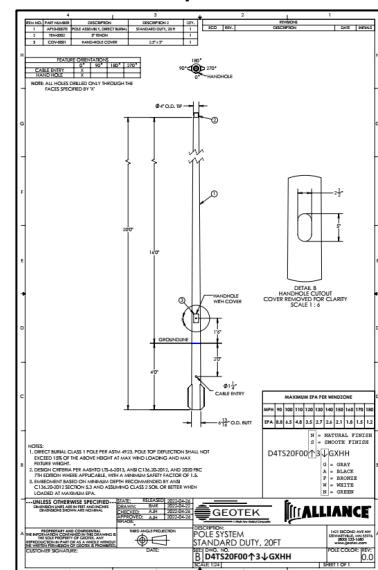
Pole Guard, 1-Piece, 20" (Black or Bronze), Field Install

Weed Eater Cover - heavy Duty, 2-Piece, Urethane

Base Shroud 1-Piece

Base Shroud 2-Piece

Drawings available at
alliancecompositesinc.com



Footnotes

¹Design criteria per AASHTO LTS-6-2013, with a minimum safety factor of 1.5 per ANSI C136.20-2012, 3 second gust wind speeds per ASCE 7-16, and velocity conversions per IBC 1609.3.1, 2018. Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not to exceed maximum allowable loading of the specified pole in its installed geographic location. EPA ratings available up to 180 mph or for EPA ratings calculated per AASHTO LRFD or other, alternate methods, contact sales@alliancecompositesinc.com for more information.

²EPA ratings shown are for light pole with a standard 2 1/2" x 5" Hand Hole. EPA ratings with a 4" x 6" or a 4" x 12" Hand Hole. Custom color poles (Non-standard) will have a single fastener Hand Hole Cover with a backer bar, matching the color of the pole.

³Longer lead times may apply, contact factory.

⁴Customer to provide drill patterns. These will be available on the provided, engineering drawing, prior to PO acceptance.

⁵Pole weights are approximate, +/- 10% of stated value.

All products supported by best-in-class Engineering and Customer Service teams.

All specifications are subject to change without notice. Please visit alliancecompositesinc.com for latest information. Consult GEOTEK with specific inquiries.

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