



CAVAWOOD

architectural wood poles




CAVAWOOD

Cavawood Architectural Products
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All products are made in the USA



The heart of a timeless, wood structure is the wood species. At Cavawood, we use Alaskan Yellow Cedar, a slow growing species that produces a dense growth ring structure resulting in natural decay resistance and exceptional strength. Many of the harvested Alaskan Yellow Cedar trees have been dead for up to eighty years, yet are still as strong as a living tree. It is the only wood that can be “recycled” before being crafted into an object of design.

CAVAWOOD

WHY CAVAWOOD POLES?



natural elegance

- The inherent beauty of wood is a composition of grain, knots and other natural markings.
- Every Cavawood pole has a unique visual signature of color and texture.

developed by nature

- Alaskan Yellow Cedar is naturally resistant to decay from moisture and insects. Other common wood species require treatment with toxic chemicals for preservation.
- The ultra compressed growth ring structure increases resistance to weather and improves strength.
- AYC averages 40 growth rings per inch versus 5 growth rings per inch for douglas fir.



engineered to endure

- The laminated, tapered shafts are composed of full length boards - no small joined pieces.
- Finished with water based, acrylic silicone stains for lasting beauty.
- The aluminum components are powder coated for protection from the elements.



designed to perform

- Patented base design allows for industry standard installation and wiring procedures.
- The cast aluminum base protects the wood shaft from landscaping and snow removal equipment.

Arm mounted luminaires slip over the pole tenon

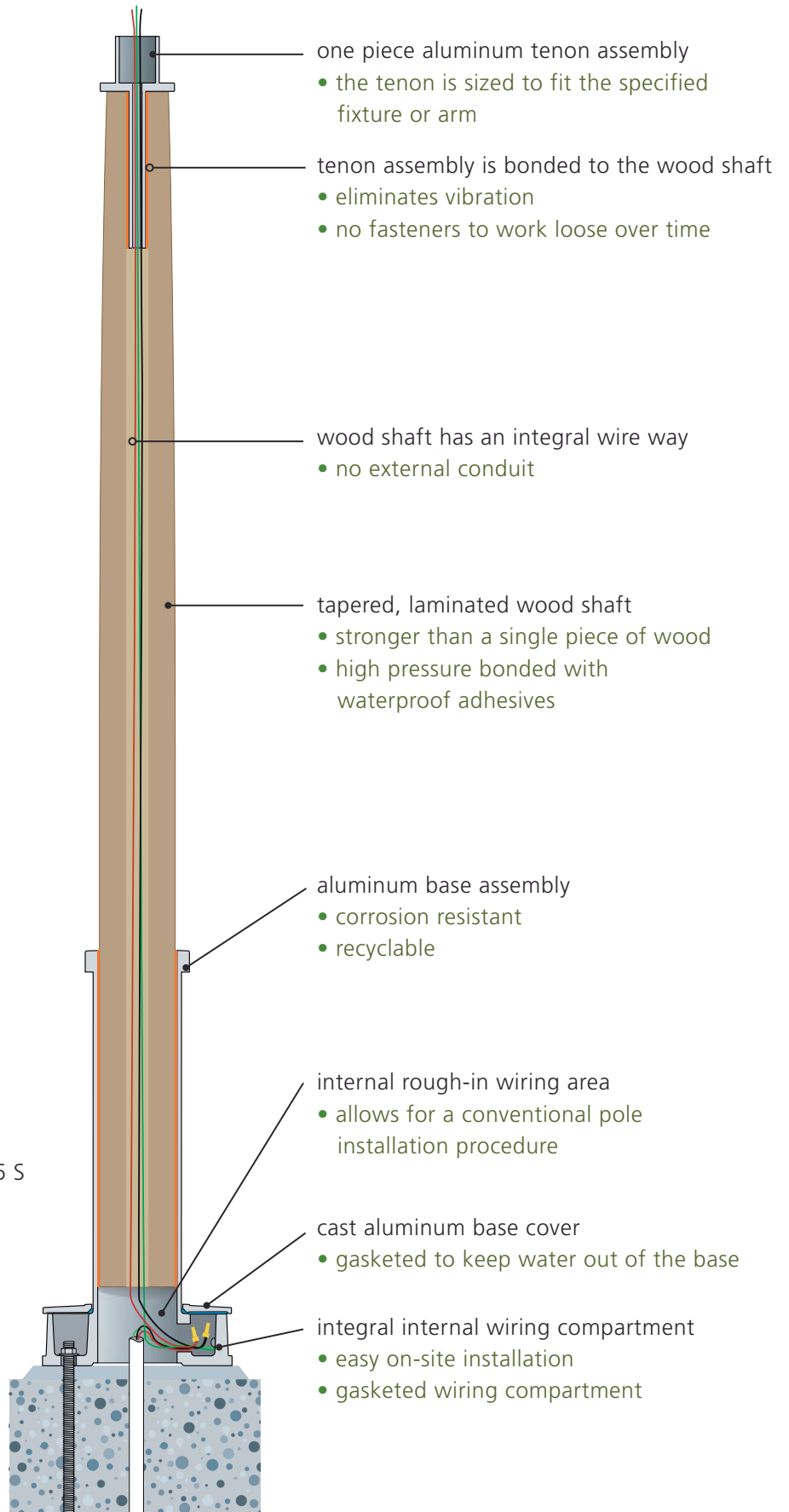


Pedestrian site lighting is enhanced with the natural look of wood poles



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PATENTED DESIGN

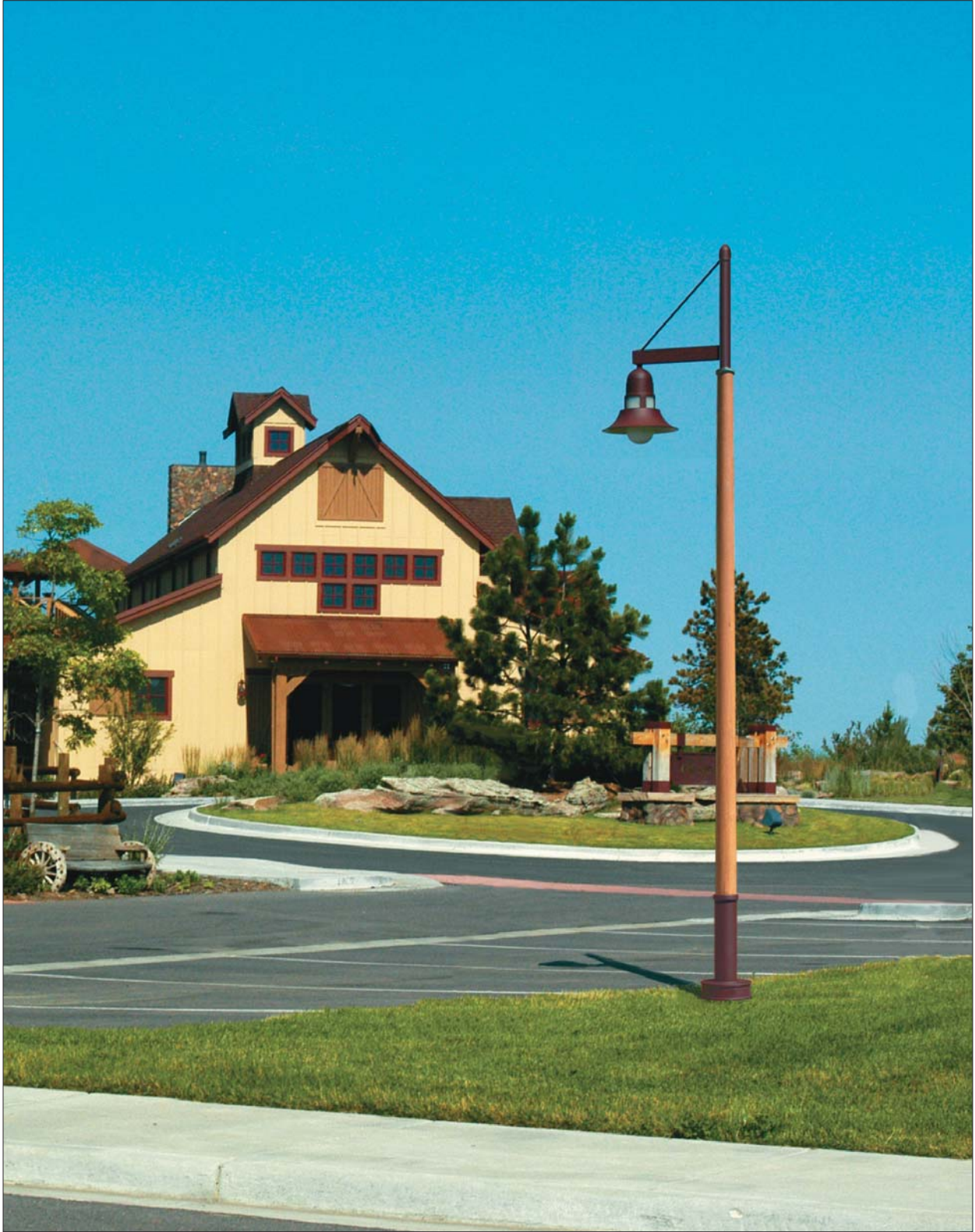


U.S. Design Patent issued: D604,866 S

US Utility (technical) Patent

- unique product design
- 23 patent claims

Arm mounted fixtures are installed over the specified pole tenon



CAVAWOOD

All components, except for the trees, are produced within 50 miles of our Colorado production facility to minimize the energy consumed during the manufacturing cycle



Plant hangers and banner arms can be installed at any height



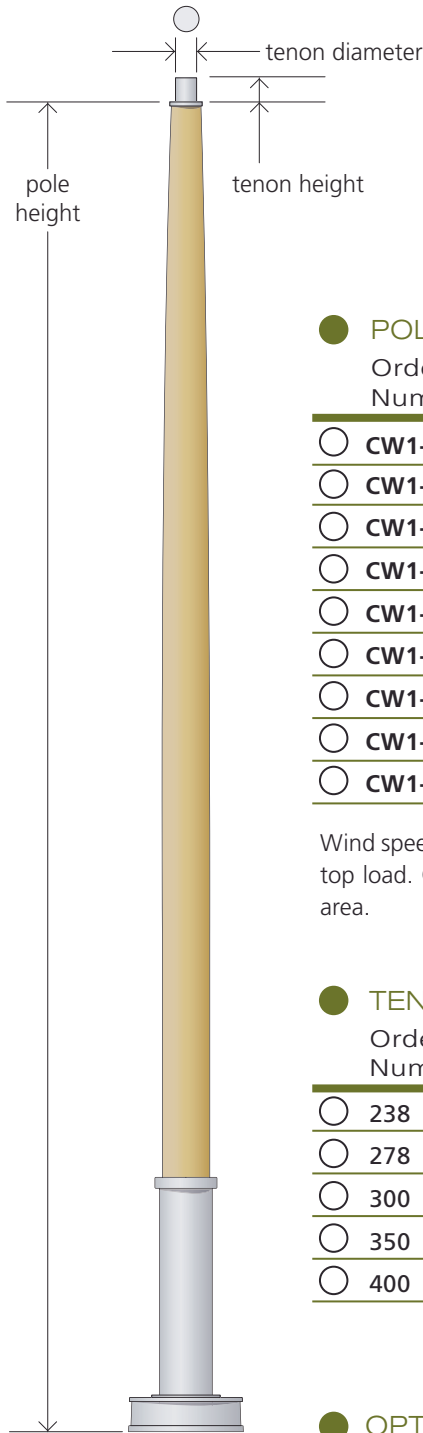
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CW1

ROUND TAPERED POLES 8 to 16 feet

Order Sequence Example

pole number	tenon diameter	tenon height	base & tenon color	wood shaft finish	options
1	2	3	4	5	6
CW1-14	400	40	BLACK	SIENNA	JBX



POLE HEIGHT

Order Number	Height	Wt Lbs	Maximum Allowable EPA (in MPH)							
			85	90	100	110	120	130	140	150
○ CW1-8	8' (2.4M)	92	29.9	25.8	20.2	16.2	13.1	11.1	9.2	8.6
○ CW1-9	9' (2.7M)	98	27.1	22.8	18.0	14.4	11.7	9.8	8.3	7.9
○ CW1-10	10' (3.1M)	103	23.8	20.7	16.5	13.3	10.9	9.3	7.9	6.8
○ CW1-11	11' (3.4M)	109	21.5	18.7	14.8	11.9	9.7	8.2	7.0	6.0
○ CW1-12	12' (3.7M)	114	19.1	16.7	13.0	10.5	8.5	7.1	6.0	5.1
○ CW1-13	13' (4.0M)	120	17.4	15.3	11.9	9.4	7.7	6.3	5.3	4.5
○ CW1-14	14' (4.3M)	125	15.7	13.8	10.7	8.3	6.8	5.5	4.6	3.8
○ CW1-15	15' (4.7M)	131	14.1	13.0	10.0	7.8	6.2	5.1	4.4	3.5
○ CW1-16	16' (4.9M)	136	12.4	12.1	9.2	7.2	5.6	4.7	4.1	3.2

Wind speeds are based on the AASHTO 2001 standards for 3 second wind bursts. Based on a 100 pound top load. Check with your local jurisdiction for the applicable wind speed design loads in your project area.

TENON DIAMETER

Order Number	Measure
○ 238	2 3/8" (60mm)
○ 278	2 7/8" (73mm)
○ 300	3.0" (76mm)
○ 350	3 1/2" (89mm)
○ 400	4.0" (102mm)

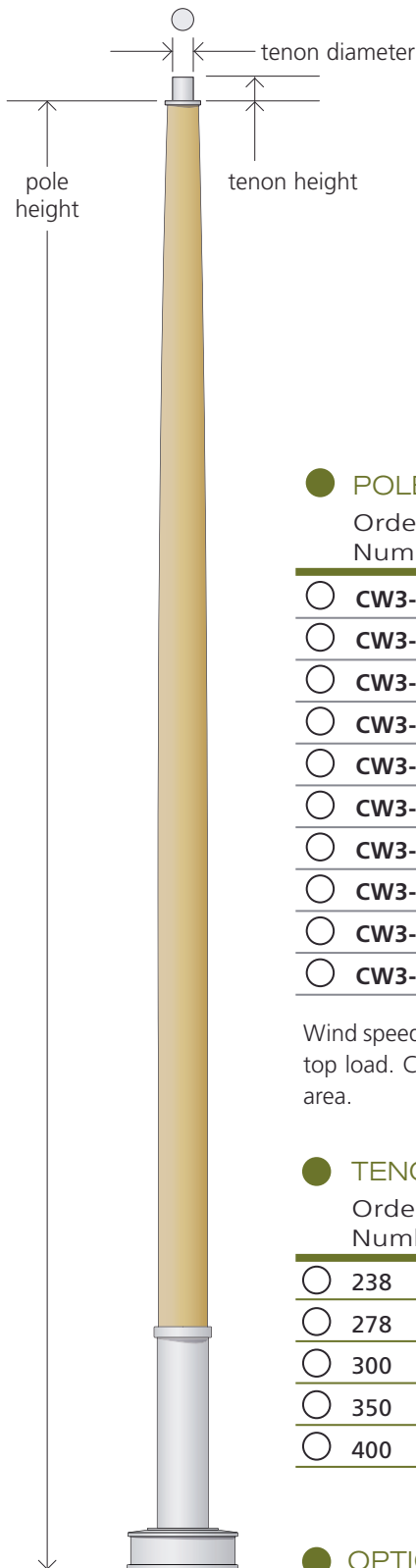
TENON HEIGHT

Order Number	Measure
○ 25	2 1/2" (64mm)
○ 30	3.0" (76mm)
○ 35	3 1/2" (89mm)
○ 40	4.0" (102mm)
○ 50	5.0" (127mm)

○ OPTIONS: Plant Hanger, J-Box see page 11

CW3

ROUND TAPERED POLES 16 to 25 feet



Order Sequence Example

pole number	tenon diameter	tenon height	base & tenon color	wood shaft finish	options
1	2	3	4	5	6
CW3-20	300	30	BRNZ	BROWN	JBX

POLE HEIGHT

Order Number	Height	Wt Lbs	Maximum Allowable EPA (in MPH)							
			85	90	100	110	120	130	140	150
○ CW3-16	16' (4.9M)	178	30.0	26.4	21.0	17.2	14.3	12.0	10.3	8.9
○ CW3-17	17' (5.2M)	186	26.9	23.6	18.7	15.3	12.7	10.7	9.1	7.9
○ CW3-18	18' (5.5M)	194	25.4	22.2	17.6	14.3	11.9	10.0	8.5	7.3
○ CW3-19	19' (5.8M)	202	21.7	18.9	14.9	12.1	10.0	8.4	7.1	6.1
○ CW3-20	20' (6.1M)	210	19.4	16.8	13.1	10.6	8.8	7.3	6.1	5.2
○ CW3-21	21' (6.4M)	218	17.3	15.0	11.7	9.4	7.7	6.4	5.4	4.6
○ CW3-22	22' (6.7M)	226	16.3	14.0	10.9	8.7	7.1	5.9	5.0	4.1
○ CW3-23	23' (7.0M)	234	14.6	12.5	9.6	7.6	6.2	5.1	4.3	3.6
○ CW3-24	24' (7.3M)	240	13.7	11.7	8.9	7.0	5.7	4.7	3.9	3.2
○ CW3-25	25' (7.7M)	250	12.6	10.6	8.0	6.3	5.1	4.1	3.4	2.8

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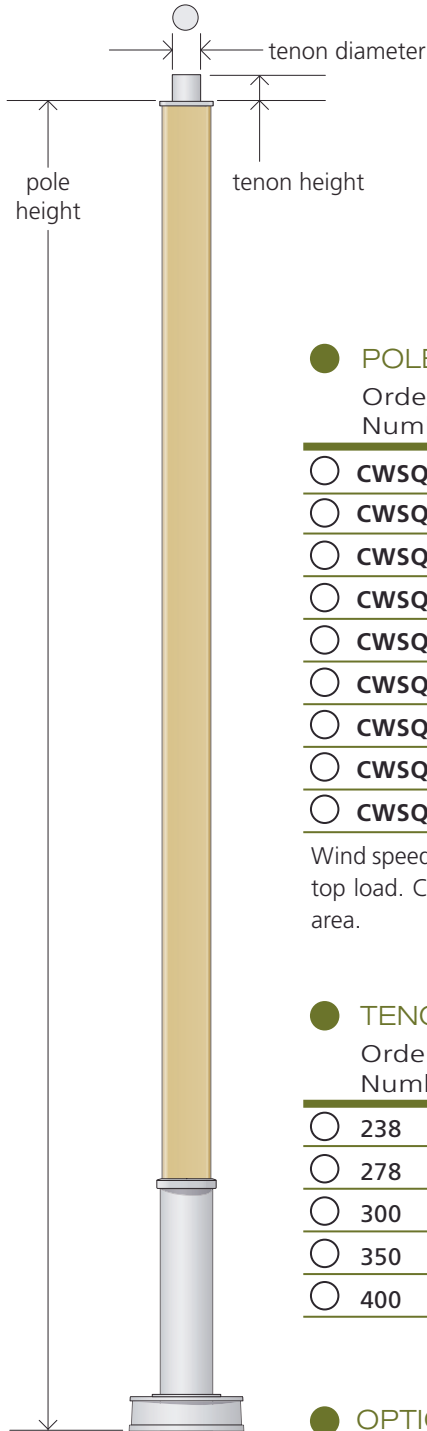
TENON DIAMETER

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○ 350	3 1/2" (89mm)
○ 400	4.0" (102mm)

TENON HEIGHT

Order Number	Measure
○ 25	2 1/2" (64mm)
○ 30	3.0" (76mm)
○ 35	3 1/2" (89mm)
○ 40	4.0" (102mm)
○ 50	5.0" (127mm)

● **OPTIONS:** Plant Hanger, J-Box see page 11



Order Sequence Example



POLE HEIGHT

Order Number	Height	Wt Lbs	Maximum Allowable EPA (in MPH)								
			85	90	100	110	120	130	140	150	
○ CWSQ-8	8' (2.4M)	102	29.5	25.4	19.8	16.0	12.9	10.8	9.0	8.4	
○ CWSQ-9	9' (2.7M)	108	26.6	22.4	17.7	14.2	11.5	9.6	8.2	7.8	
○ CWSQ-10	10' (3.1M)	112	23.6	20.5	16.3	13.1	10.7	9.2	7.8	6.7	
○ CWSQ-11	11' (3.4M)	118	21.2	18.4	14.5	11.6	9.5	7.9	6.8	5.8	
○ CWSQ-12	12' (3.7M)	122	18.8	16.5	12.7	10.3	8.3	6.9	5.8	4.9	
○ CWSQ-13	13' (4.0M)	130	17.1	15.1	11.6	9.2	7.5	6.1	5.1	4.3	
○ CWSQ-14	14' (4.3M)	136	15.5	13.6	10.5	8.1	6.6	5.3	4.4	3.6	
○ CWSQ-15	15' (4.7M)	144	13.8	12.8	9.8	7.6	6.0	5.0	4.2	3.3	
○ CWSQ-16	16' (4.9M)	148	12.2	11.8	8.9	6.9	5.4	4.5	4.0	3.0	

Wind speeds are based on the AASHTO 2001 standards for 3 second wind bursts. Based on a 100 pound top load. Check with your local jurisdiction for the applicable wind speed design loads in your project area.

TENON DIAMETER

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○ 238	2 3/8" (60mm)
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TENON HEIGHT

Order Number	Measure
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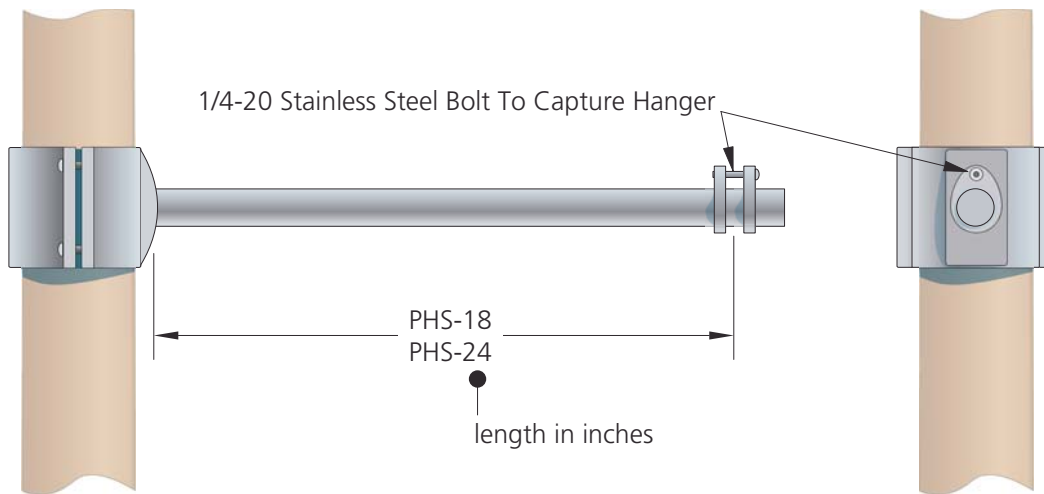
● OPTIONS: J-Box see next page

Options

● PLANTER ARMS

Order Number	Arm length(s)
<input type="radio"/> PHS-18	18" (457mm) single arm
<input type="radio"/> PHS-24	24" (610mm) single arm
<input type="radio"/> PHT-218	18" (457mm) twin arms at 180°
<input type="radio"/> PHT-224	24" (610mm) twin arms at 180°

Total arm length is 2" (50mm) longer than arm length stated above. Maximum hanging weight is 75 pounds.



● J-BOX

Order Number	
<input type="radio"/> JBX	rectangular j-box housing

Cast aluminum single gang housing painted to match base.

- Does not include the electrical receptacle or cover. Refer to local codes for approved devices.

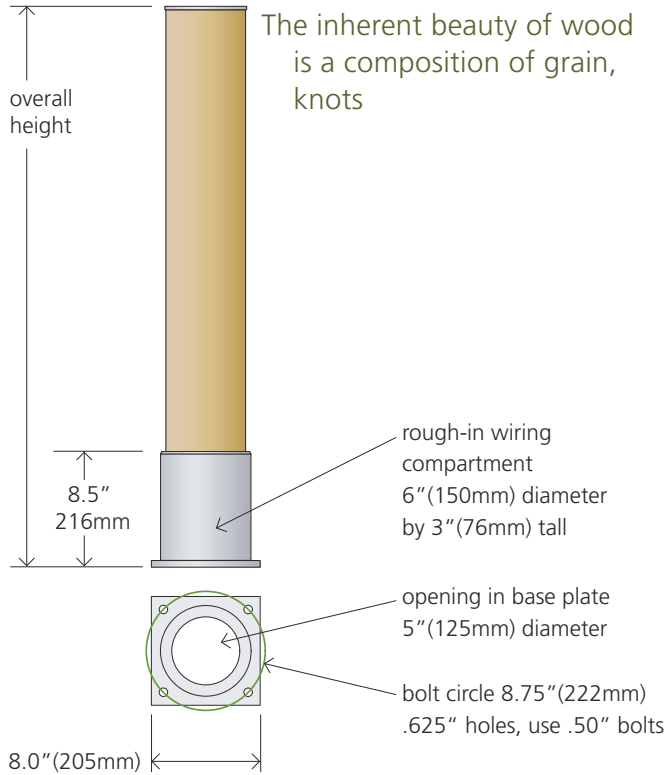
Shown with a receptacle and cover for illustration purposes.



Bollard luminaires of any kind can be used with Cavawood bollards.



Order Sequence Example



BOLLARD

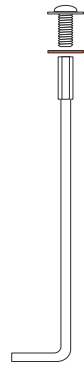
Order Number	Height
○ CWB-24	30" (610mm)
○ CWB-30	30" (760mm)
○ CWB-36	36" (914mm)
○ CWB-42	42" (1070mm)

The top plate can be provided with a 1" (25mm) central opening for wiring access and threaded holes for mounting a light fixture. Provide a dimensioned drawing for pricing and production.

OPTIONAL ANCHOR BOLT SETS

Order Number	
ABS	set of 4

The set includes four assemblies. Each assembly includes a 12" long anchor bolt, with a stainless steel washer and button head bolt for attaching the bollard. Each set includes a paper template for setting the anchor bolts into the foundation.



Bollard Specification

Bollard Shaft

The pole shaft is produced from a laminated beam of full length, one piece planks of L1 grade Alaskan Yellow Cedar, to ANSI/AITC A190.1 standards using a waterproof exterior grade adhesive. The AYC wood is harvested from well managed forests. The pole shaft is 5.75" (146mm) diameter. A central internal wireway of 1.50" (38mm) diameter is provided.

Bollard Shaft Finish

The wood is naturally resistant to insects and decay. No chemical preservatives are required to protect and preserve the wood. The wood shaft is finished with a water based, non VOC, silicone impregnated translucent color stain for long term service in the elements. Natural, unstained shafts are coated with a sealer to protect from scuffs and soiling during installation. The translucent finish will fade over time, and can be renewed with an additional coat of stain after cleaning the surface. Normal service between renewal coats is eight to twelve years.

Base

The aluminum base has a central rough-in wiring compartment, including a ground lug. Use 1/2" anchor bolts. After installation and leveling, use a non-shrink grout to fill the gap under the base.

Base and Top Plate Finish

Polyester powder coat textured finish. Available in three standard colors or RAL colors. The exterior grade, UV-resistant finish provides excellent salt spray resistance according to ASTM B117 testing procedures.

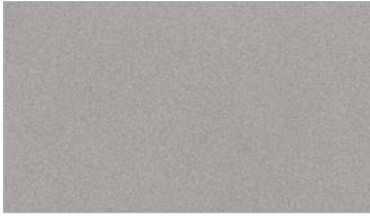
Warranty

The product is warranted to be free from manufacturing defects for three years from the date of shipment.

Finishes

● BASE & TENON COLOR

Order Number	Description
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SLVR Silver with clear coat



BRNZ Architectural Bronze



BLACK Black

* All colors are lightly textured, semi-gloss high performance polyester powder coatings.

* Custom colors based on the international RAL Color System are available with a lightly textured semi-gloss finish. Specify the color by the four digit RAL number. Example: RAL 8017

● WOOD SHAFT FINISH

Order Number	Description
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BEIGE translucent stain



SIENNA translucent stain



BROWN translucent stain



COFFEE translucent stain

NATR
 Natural, unfinished wood will turn silver gray over time.
 Shipped with a transparent protective coating for handling protection.



Pole Specification

Pole Shaft

The pole shaft is produced from a laminated beam of full length, one piece planks of L1 grade Alaskan Yellow Cedar, to ANSI/AITC A190.1 standards using a waterproof exterior grade adhesive. The AYC wood is harvested from well managed forests. The pole shaft is tapered from 5.75" (146mm) at the base, to 4.75" (120mm) at the top of the pole. A central internal wireway of 3/4" (19mm) diameter is provided. The pole shaft is mated to the pole base using proprietary adhesive materials, forming a watertight, fully coupled structural bond between the shaft and the pole. No mechanical fasteners are used.

Pole Shaft Finish

The AYC wood is naturally resistant to insects and decay. No chemical preservatives are required to protect and preserve the wood. The wood shaft is finished with a water based, non VOC, silicone impregnated translucent color stain for long term service in the elements. Natural, unstained shafts are coated with a sealer to protect from scuffs and soiling during installation. The translucent finish will fade over time, and can be renewed with an additional coat of stain after cleaning the surface. Normal service between renewal coats is eight to twelve years depending on the environmental conditions. Exposed wood that turns gray can be restored to its natural color with an oxalic acid based deck cleaner. Some minor checking and or splitting will naturally occur on the wood surface over time.

Pole Base

The cast A356 aluminum base has a central rough-in wiring compartment connected to an accessible 2" x 4" (50mm x 100mm) wiring compartment under the base cover. A ground lug is included within the wiring compartment. Use 3/4" x 21" galvanized anchor bolts with eight washers and nuts for leveling. After installation and leveling, use a non-shrink grout to fill the gap under the base.

Base Cover

One piece cast aluminum cover, seals the base with a silicone o-ring gasket at the central shaft and silicone sponge gasket on the underside of the cover to seal the wiring compartment. The cover is secured with four captive, stainless steel fasteners.

Tenon

An aluminum tenon of the specified diameter and height is finished to match the base and fixture.

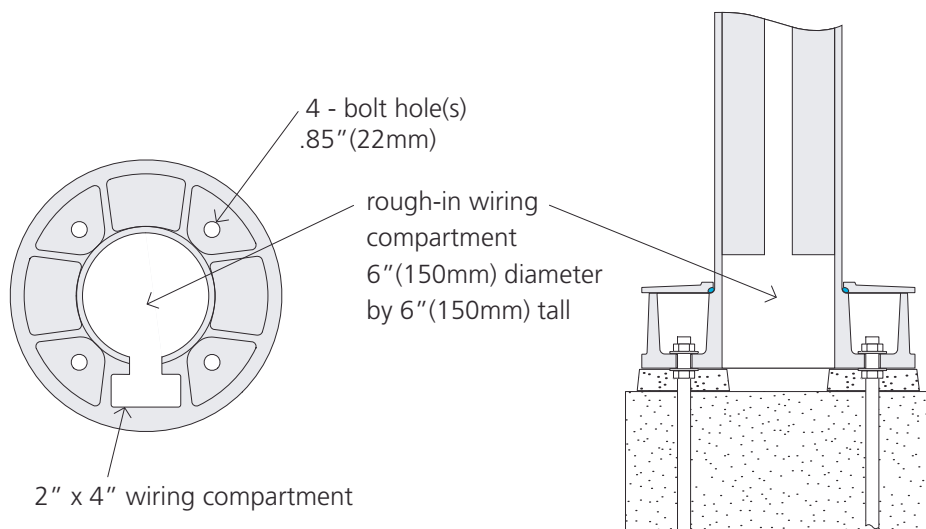
Base and Tenon Finish

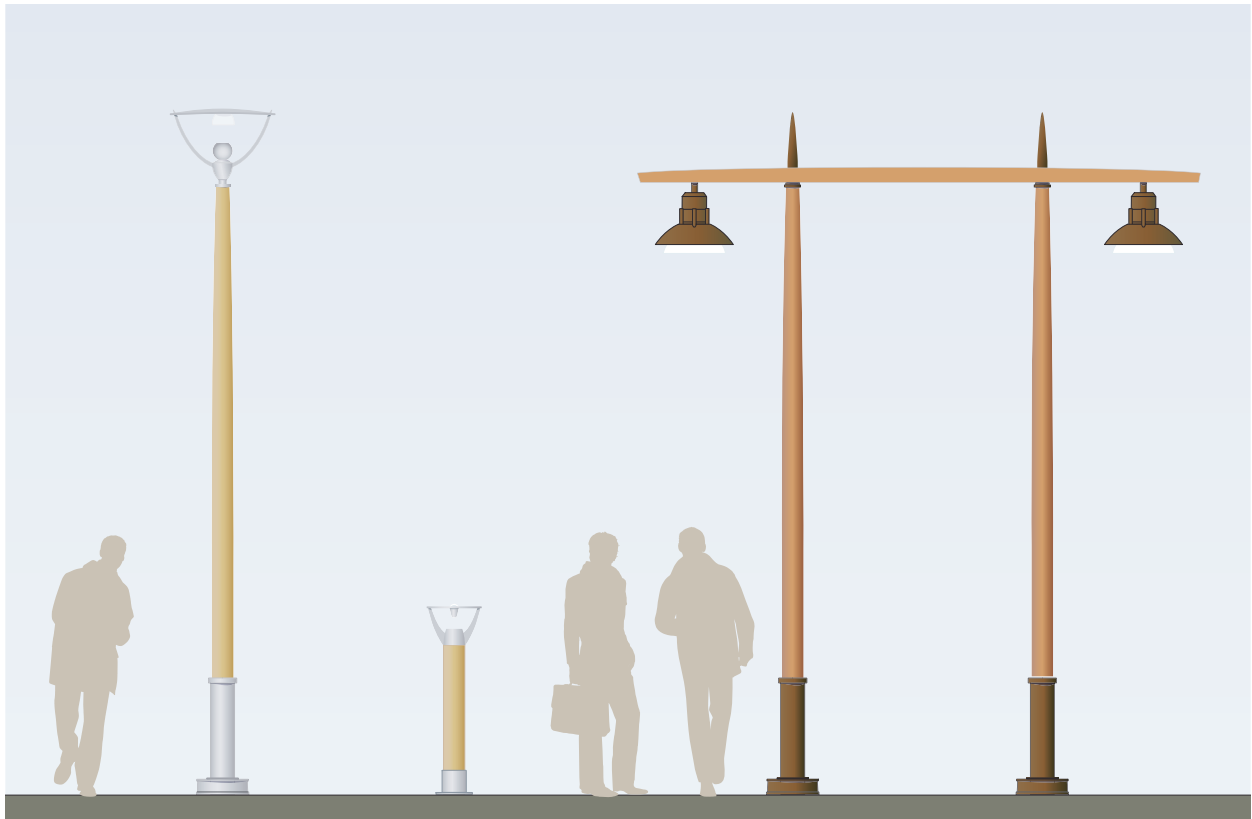
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Warranty

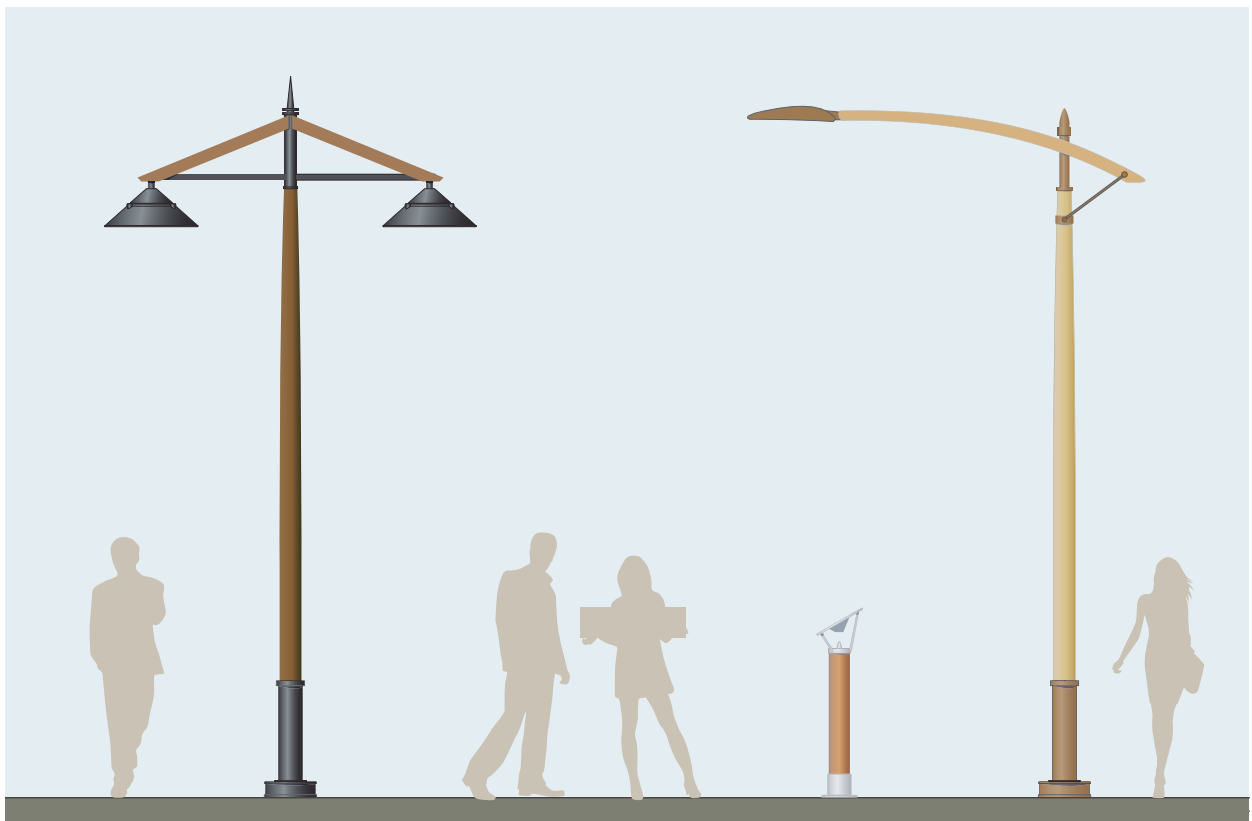
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Pole Anchor Base Detail





Cavawood can provide a wide range of lighting, arms and accessories to fulfill your project requirements.



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