

WAGNERS

COMPOSITE FIBRE TECHNOLOGIES (CFT)

UTILITY POLES



Wagners Composite Fibre Technologies (CFT) produces the most durable, safe and environmentally friendly utility poles for energy infrastructure asset owners around the world.

Our uniquely pultruded Fibre Reinforced Polymer (FRP) utility poles are safer than traditional poles because they do not conduct electricity thereby reducing risk associated with shock or electrocution, especially during installation.

Being 50%+ lighter than traditional poles, FRP utility poles are safer to handle, transport and install leading to improved health and safety for community and workers during installation, reduced wear and tear on equipment and improved transport efficiencies.

Existing equipment and processes are fully compatible with FRP installation so there's no need to upgrade or expand existing assets. Long-term, lighter equipment can be utilised to install FRP poles which translates to reduced future capital expenditure. Onsite fitting and installation are no different to traditional poles with the ability to drill fixtures in-field, ensuring a quality fit and installation every time.

FRP utility poles are extremely durable with an expected 80 year design life. Additionally, Wagners

PERFORMANCE ADVANTAGES

- **Non-conductive** - significantly reduced risk of touch potential
- **Lightweight** - safer to handle, transport and install
- **Durable** - expected 80-year design life
- **Inert** - will not rot, rust or corrode
- Improved **Return on Investment (ROI)**- through reduced ongoing maintenance & inspection requirements.
- **Environmentally friendly & sustainable** - using 5-7 times less embodied carbon than traditional utility poles.
- **Resistant to termites, acid sulfate soils & non-leaching**
- **Compatible** with existing installation equipment & processes
- **Fire** - improved bushfire resilience
- **Maximise** network security & resilience

utility poles are inert which means they will not react chemically to their surroundings making them resistant to rot, rust and corrosion caused by moisture, chemicals and UV radiation. Superior return on investment is therefore achieved through total service life owing to reduced maintenance and inspection requirements.

TECHNICAL DATA

WAGNERS CFT FIBRE REINFORCED POLYMER (FRP) UTILITY POLE SIZES AND SPECIFICATIONS

Length (m)	Burial Depth (m)	SLS (kN)	ULS (kN)	OD (mm)	Wall Thickness (mm)	Mass (kg)
9.5	1.6	5	15	293	9.5	163
9.5	1.6	8	24	301	13.5	235
9.5	1.6	12	36	356	13.5	280
11	1.9	4	12	293	9.5	189
11	1.9	5	15	293	9.5	189
11	1.9	6	18	301	13.5	272
11	1.9	8	24	301	13.5	272
11	1.9	12	36	356	13.5	324
12.5	2.05	4	12	293	9.5	215
12.5	2.05	5	15	301	13.5	309
12.5	2.05	6	18	301	13.5	309
12.5	2.05	8	24	356	13.5	369
12.5	2.05	12	36	406	13.5	422
14	2.2	4	12	301	13.5	347
14	2.2	5	15	356	13.5	413
14	2.2	6	18	356	13.5	413
14	2.2	8	24	356	13.5	413
14	2.2	12	36	406	13.5	479
15.5	2.35	5	15	356	13.5	457
15.5	2.35	6	18	356	13.5	457
15.5	2.35	8	24	406	13.5	524

Wagners' Environmental Product Declaration (EPD) demonstrates our FRP utility poles are an environmentally friendly and sustainable alternative using 5-7 times less embodied carbon than traditional utility poles. They are perfect for environmentally sensitive areas or areas of high conservation value as they are resistant to termites, acid sulfate soils and are non-leaching.

Wagners CFT has produced more than a million FRP electrical crossarms for network operators over the past 20 years. Building on our reputation of quality, safety and reliability, the collective characteristics of Wagners' FRP utility poles will further enhance and maximise network security and resilience for asset owners and customers into the future.

CONTACT US

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