

# One+™ C Cell Model P4

## Product Data Sheet

UFS Corporation introduces the **One+™** C Cell, a unitary-construction semi-circular Membrane Electrode (ME) Cell, designed to meet the needs of automotive E-coat paint systems. This cost-effective design also includes an improved electrolyte flow pattern providing for longer ME Cell life. Flange nuts and bolts which are proven to be typical leak points are eliminated. It has more electrode & membrane surface area than competitive C cells, improved anolyte flow pattern, and no leaks. The **One+** C Cell is a superior design for automotive E-coat paint systems.



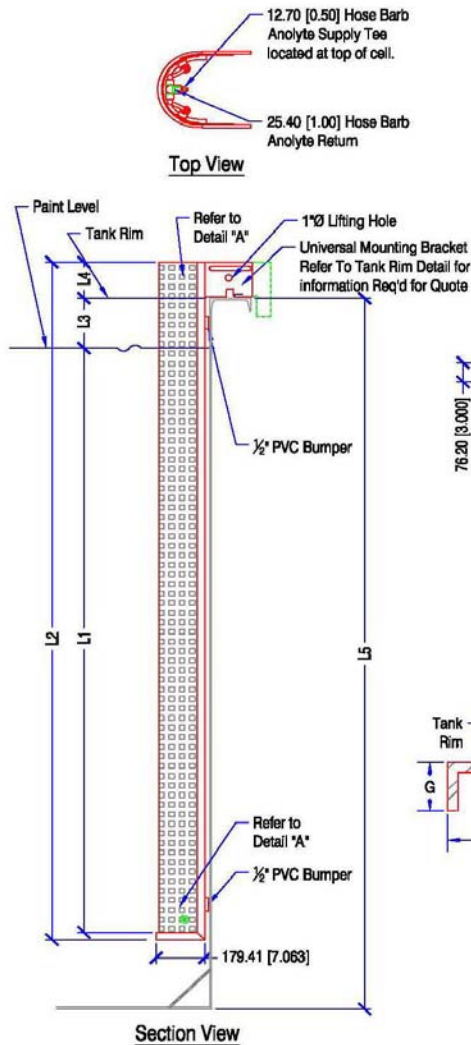
## Properties

- The Electrode, Membrane and Guard are bonded together in a channel. This design eliminates leak points and creates a single, durable unit for easy start-ups.
- The Electrode is made from 316L stainless steel with a wall thickness of 3.4 mm (0.134 inch), which is same as competitive C cells.
- Estimated dry weight is 14.2 kg/m (9.5 lbs/ft)
- The Electrode has 0.429 m<sup>2</sup>/m (1.407 ft<sup>2</sup>/ft) of surface area with a 12.7 mm (1/2") hole for electrical power connection.
- The ion-membrane is anion-selective for cathodic e-coat paints.
- Anolyte flows from a 1/2" connection to two internal inlets — one on each side of the electrode provide enhanced anolyte flow over the surface of the Electrode.
- It has a 1" NPT electrolyte return connection
- Current density of 32 - 54 amp/m<sup>2</sup> (3 - 5 amps/ft<sup>2</sup>) is typical at 200 - 400 volts.
- Recommended electrolyte flow rate is 8 lpm/m<sup>2</sup> (~2.0 gpm/10 ft<sup>2</sup>) per ME Cell at 3– 3.5 bar (45– 55 ft) of head.
- Rim bracket is a universal design that allows for adjustment to fit over the typical square bar welded to the rim of the E-coat tank.

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# One+ C-Cell

## One+ C Cell Proposal



Date:

Quote #:

Ref #:

### ME Cell Options List

#### Ion Exchange Membrane

- | Type                            | Form                                  |
|---------------------------------|---------------------------------------|
| <input type="checkbox"/> Anion  | <input type="checkbox"/> Roll (PTAR)  |
| <input type="checkbox"/> Cation | <input type="checkbox"/> Sheet (PTAN) |
|                                 | <input type="checkbox"/> Sheet (PTAC) |

#### Electrode

- P4 -316L SS Sch.5 (0.134 in thick)
- P5 -316L SS Sch.10 (0.165 in thick)

#### Effective Length (L1)

inches

#### Surface Area/One+ Cell

0.710 SM  
9.380 SF

Dimensional Values	
L1	<input type="text"/>
L2	<input type="text"/>
L3	<input type="text"/>
L4	<input type="text"/>
L5	<input type="text"/>
A	<input type="text"/>
B	<input type="text"/>
C	<input type="text"/>
D	<input type="text"/>
E	<input type="text"/>
F	<input type="text"/>
G	<input type="text"/>
H	<input type="text"/>
I	<input type="text"/>

- mm     inches

#### Recommended Accessories

- Flow Meter     Splash Guard
- Cable Lead
- PVC Return Tubing - 1.5 M (5 Ft) per Cell



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