

## The Tradition You Trust

### REPLACEABLE DEEP ANODE SYSTEMS

Loresco Replaceable Deep Anode Systems are a proven legend. Since 1971, Loresco's Replaceable Deep Systems have performed successfully around the world. The versatility of performance in all field conditions coupled with the simplicity of installation guarantees an economical deep system.

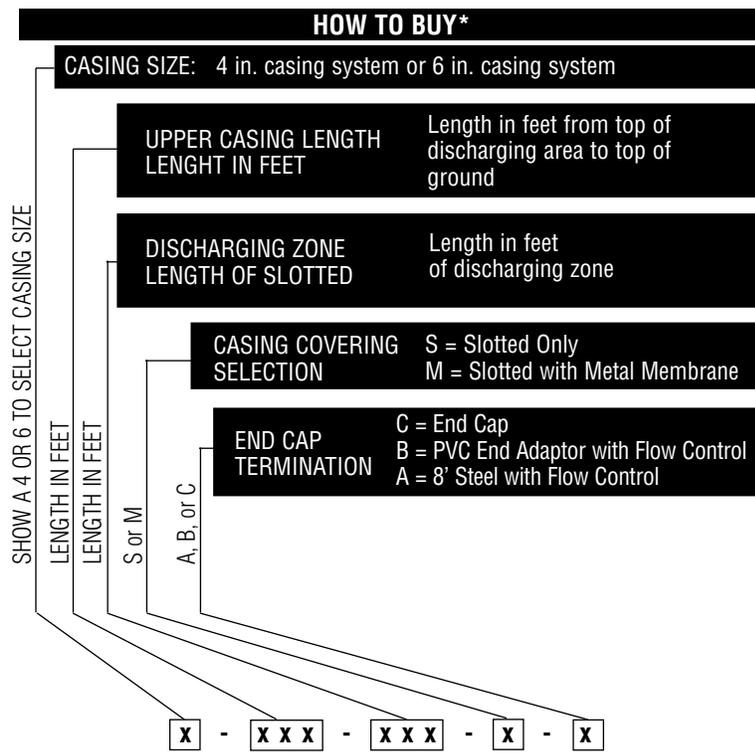
### APPLICATION DATA

The Loresco Replaceable Deep Anode System gives the advantage of allowing for the inevitable failure of a deep system to occur without the painful cost of drilling a new hole. The Loresco Replaceable Deep Anode System incorporates simple technology that works to provide proven economical performance.

**ECONOMICAL - SIMPLICITY - PROVEN PERFORMANCE**

### Specify Loresco® Replaceable Deep Anode Systems

Loresco Replaceable Deep Systems are furnished complete with upper zone casing, discharging zone casing, and end termination. Anodes are not included.



\* It is assumed a 4 in. system will be installed in an 8 in. bore hole. It is assumed a 6 in. system will be installed in a 10 in. bore hole.

The following materials may also be furnished by Loresco to make installation simpler and more economical.

- 1. Surface Accessories:** Surface caps and surface boxes. Traffic-rated surface covers also available.
- 2. Upper zone earth seal:** Loresco® PermaPlug is an economical and simple to use surface seal. PermaPlug is a naturally produced, environmentally safe bentonite pellet.
- 3. Installation accessories:** Includes PVC glue, PVC primer, coupling screws, and right hand left hand nipple. Nipple is not required if flow control is not used in end termination.

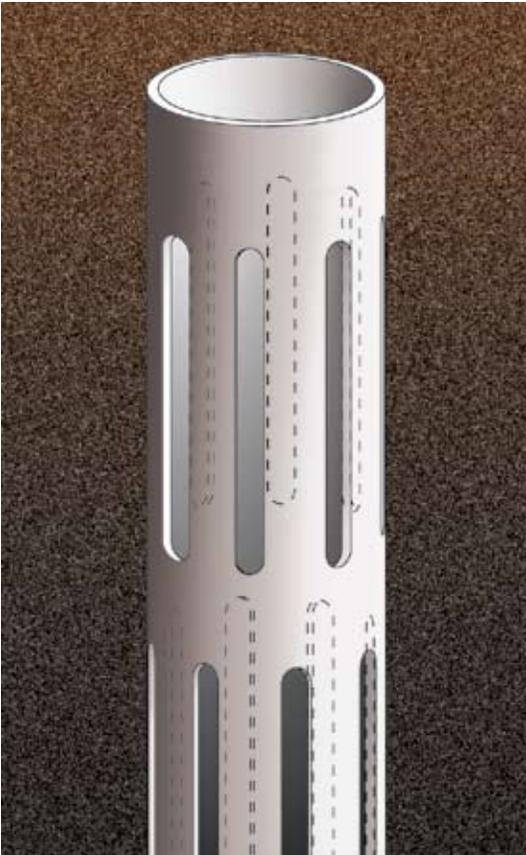
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# Systems

## Replaceable Deep Anode Systems

4. Carbon Backfill: Loresco SC•3® is 74 lbs per cu. ft. Sufficient quantity should be purchased to place the top of SC•3 30 ft. above the top of the discharging column.
5. Loresco AllVent™ System (Deep Anode systems should be vented): AllVent and solid casing are available. AllVent should be throughout the discharging zone. Couplings, 90° elbows, and insect guards are available to complete vent system.

The Loresco Replaceable Deep Anode System is made possible by using a non-conductive slotted plastic casing which allows for system rejuvenation if failure occurs.



Typical Slotted Casing

Anodes should be selected to be easily replaced. Small diameter anodes such as mixed metal oxide anodes are ideal for use in a Loresco Replaceable Deep Anode System.

Loresco slotted casing has 224 six inch slots in each 20 foot length. Slots are offset and parallel to the vertical axis of the casing to maximize strength. Slots are .5 in. wide in 4 in. casing and .75 in. wide in 6 in. casing.

### Designing A Loresco® Replaceable Deep Anode System

**Step 1:** Determine total depth. Utilizing all sources available the total depth of the deep system should be determined. See Deep Anode Systems published by Loresco International.

**Step 2:** Select the lengths and diameter of the upper casing and the length of the discharging zone. The soil conditions and the systems current requirements control this determination. (see table below).

**Step 3:** Using the system schematics 1-4, select the system design which fits the field conditions of the proposed site.

#### SLOTTED CASING SIZE VS. CURRENT CAPACITIES

CASING SIZE	RECOMMENDED HOLE SIZE	NORMAL CURRENT OUTPUT	MAXIMUM CURRENT OUTPUT
4 in.	8 in.	0.26 A/FT	0.32 A/FT
6 in.	10 in.	0.33 A/FT	0.46 A/FT

\* The slotted casing should be located in uniform zones of low resistivity.