

Ω MASTER™



LightningMaster Corporation

Over 50% of the dissipation of a lightning surge takes place in the first 6" radially around a ground rod. Therefore, if we can provide a very rich environment, for charge dissipation, immediately around the rod, we can get a very high percentage of the surge energy into ground.

Ω MASTER™ provides that environment.

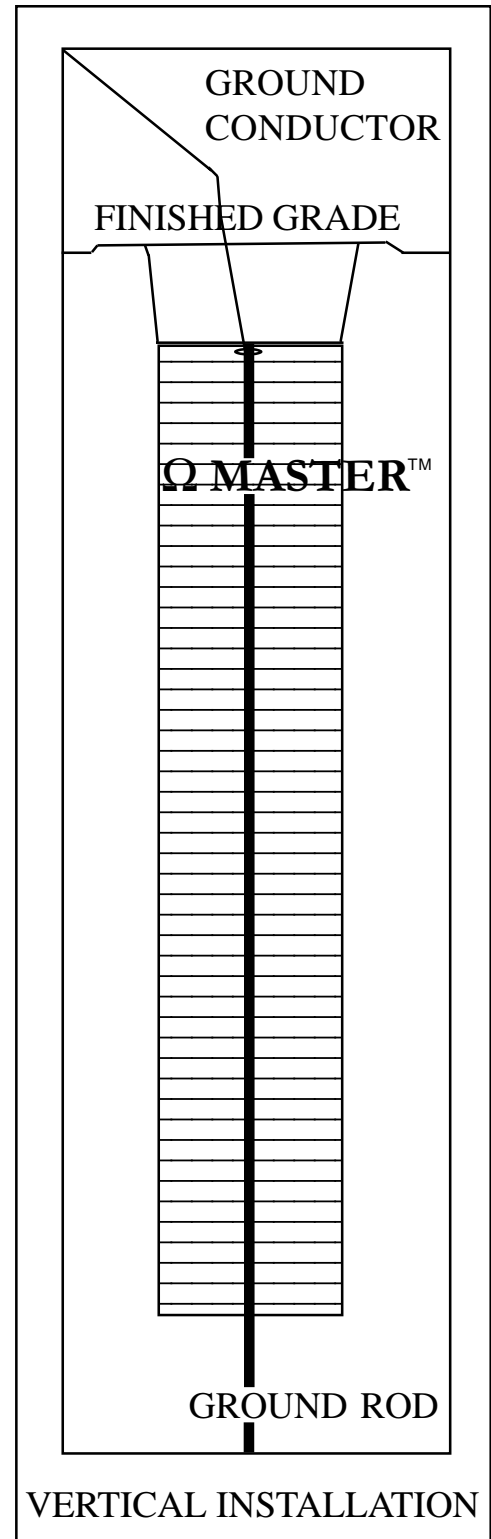
Ω MASTER™ is a simple, economical, easy to use backfill material which substantially lowers the resistance and surge impedance of your grounding system. Used in conjunction with conventional copper grounding equipment, Ω MASTER™ will lower the contact resistance to earth substantially (see chart below).

Ω MASTER™ is manufactured from environmentally safe and stable components and is low in sulfur content, with approximately half of that of other backfills. It has an excellent shelf life - long term storage does not effect performance.

Ω MASTER™ creates a positive, low resistance electrical connection between your grounding system and earth.

Ω MASTER™ installation requires only minimum instruction and no special tools.

APPROXIMATE REDUCTION IN GROUND RESISTANCE WITH Ω MASTER™	
HOLE DIAMETER WITH 5/8" BY 10' ROD IN CENTER OF 15' HOLE	PERCENT REDUCTION COMPARED TO ROD ONLY
4"	48%
6"	53%
8"	56%
10"	58%
12"	60%



AMOUNT OF Ω MASTER™ REQUIRED FOR VARIOUS INSTALLATIONS

Ω MASTER™ bulk density is 60 pounds per cubic foot.
 Ω MASTER™ is packaged in 50 pound bags.

VERTICAL INSTALLATION

Estimated number of pounds of Ω MASTER™ around ground rod in vertical hole.

HOLE DIAMETER	LBS/FT OF DEPTH	DEPTH OF HOLE (feet)			
		4'	8'	16'	20'
4"	6.5	26	52	104	130
5"	10.1	41	81	162	202
6"	14.5	58	116	232	290
7"	19.8	80	159	317	396
8"	25.8	104	207	413	516
9"	32.7	131	262	524	654
10"	40.4	162	324	647	808

Drill or dig vertical hole to the desired diameter and depth. Suspend ground rod in center of hole. Fill hole to desired level with Ω MASTER™. Backfill to finished grade. No tamping is required.

HORIZONTAL INSTALLATION

Estimated number of pounds of Ω MASTER™ around ground conductor in horizontal trench.

TRENCH WIDTH	Ω MASTER™ THICKNESS	POUNDS PER FOOT	TRENCH LENGTH (feet)				
			4'	6'	8'	10'	20'
4"	2"	4.11	16.4	24.7	32.9	41.1	82.2
6"	2"	6.17	24.7	37.0	49.4	61.7	123
8"	2"	8.22	32.9	49.3	65.8	82.2	164
10"	2"	10.30	41.2	61.8	82.4	103	206

