

## Spec #12

### ROOF RISER

SINGLE PHASE, 120/240 VOLTS, 3 WIRE SERVICE, 100 AMP

#### **MINIMUM GENERAL**

1. The Co-op will supply, install, and own the service drop to mast and the service wire attachments on the mast. All service entrance equipment, including mast and weatherhead, is to be supplied and installed by member.
2. Member to obtain meter pan from Co-op and install on house at his/her expense. A weatherhead shall be used of proper type for the number and size of wire used.
3. Roof riser shall only be rigid galvanized steel conduit, of size indicated below, and securely fastened to building. It shall be of length such that the lowest point of service wire shall be a minimum of eighteen inches above roof if within four feet from edge of roof.
4. Roof riser passage through roof shall be completely waterproof.
5. From meter pan to main switch, installations may be either service entrance cable or wire in conduit, as desired by member. If cable is used from meter pan to main switch, a non-watertight connector may be used at bottom of meter pan.
6. Main switch and panel box shall be located at a readily accessible location nearest the point of entrance of the service entrance conductors.
7. Risers must be of adequate strength and guyed properly if more than 24" above roof to safely withstand the strain imposed by the service drop.

#### **GROUNDING**

1. Ground wire shall be one continuous length, without splice or joint, from main switch to grounding electrodes. Suitable clamp must connect groundwire securely to two driven ground rods - minimum 6' apart in undisturbed earth. Grounding must be in accordance with the N.E.C. codes on new construction.
2. Grounding electrodes must be rods: 5/8" x 8' solid rod, either galvanized or copper clad.

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### NOTES

1. All installations to be made according to the diagram on reverse side.
2. All materials to be approved by the Underwriters Laboratories.
3. All wiring to be in conformance with the National Electric Code and the National Electric Safety Code, current edition, and certified by a Cooperative approved inspection agency.
4. Always have a qualified electrician take care of your wiring needs.
5. Members not following these minimum specifications may be refused service connection.
6. Service connections and/or meter approval shall be done only by authorized Cooperative personnel.
7. Reduced neutral may be allowed.
8. All service entrances will be located by Cooperative personnel and above clearances may be greater. Any change to the service entrance location without authorization from the Cooperative may incur an additional expense to the member.
9. Service to be inspected by an approved inspection agency.

ITEM	MATERIAL	400 AMP SERVICE		
		100 AMP SERVICE	200 AMP SERVICE	400 AMP SERVICE
1	Copper Wire, Type THW in conduit	#4	#2/0	500 MCM
2	Aluminum Wire, Type THW in Conduit	#2	#4/0	750 MCM
3	Minimum Conduit Size	2"	2"	3"   3 1/2"
4	Minimum Conduit Size For UG Service Conductors	2"	2"	4"
5	Copper Ground Wire To Driven Grounding Electrodes	Minimum #6	Minimum #4	Minimum #1/0

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