

Chapter E 391

TRAILERS AND MOBILE HOMES

E 391.01	Scope	E 391.05	Service equipment
E 391.02	Definitions	E 391.06	Receptacles
E 391.03	Feeder conductors	E 391.07	Power supply cord
E 391.04	Branch circuits	E 391.08	Grounding

E 391.01 Scope. The provisions of this chapter apply to the connection of a trailer or mobile home to an outside distribution system.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.02 Definitions. The following definitions apply only to the requirements of this chapter.

(1) **BRANCH CIRCUIT:** That part of the electric distribution system from the trailer or mobile home space service equipment to the receptacle.

(2) **FEEDER:** That part of the electric distribution system from the supply point to the trailer or mobile home space service equipment. This supply point may be a feeder overcurrent protective device or the utility transformer.

(3) **OVERNIGHT CAMPING PARK:** The location of 2 or more trailer or mobile home spaces which are not supplied individually with any water facilities.

(4) **PERMANENT TRAILER OR MOBILE HOME SPACE:** The location of an individual trailer that is not part of an overnight camping park or trailer and mobile home park and which is supplied with water facilities.

(5) **TRAILER OR MOBILE HOME PARK:** The location of 2 or more trailer or mobile home spaces which are supplied individually with water facilities.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.03 Feeder conductors. All feeders shall be 3-wire (two ungrounded conductors and one neutral) with conductor ratings for trailer or mobile home spaces specified as follows:

(1) Trailer or mobile home park.

(a) A feeder supplying an individual space shall be rated not less than 50 amperes.

(b) A feeder supplying 2, 3 or 4 spaces shall be rated not less than 100 amperes.

(c) Where a feeder supplies more than 4 spaces, figure a minimum demand of 50 amperes for each space and then apply a demand factor of 50% to the total demand to determine the minimum feeder ampere rating.

(2) Overnight camping park.

(a) A feeder supplying an individual space shall be rated not less than 20 amperes.

(b) A feeder supplying 2, 3 or 4 spaces shall be rated not less than 40 amperes.

(c) Where a feeder supplies more than 4 spaces, figure a minimum demand of 20 amperes for each space and then apply a demand factor of 50% to the total demand to determine the minimum feeder ampere rating.

(3) A feeder supplying a permanent trailer or mobile home space shall be rated not less than 50 amperes.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.04 Branch circuits. Branch circuits shall have a rating not less than the rating of the receptacles which they supply. Where the receptacle is separate from the trailer or mobile home service equipment, a separate grounding conductor shall be run with the circuit conductors.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.05 Service equipment. Service equipment shall be provided for each trailer or mobile home space as follows:

(1) Each space in a trailer or mobile home park shall be provided with two disconnecting means and overcurrent protective devices, one rated not less than 50 amperes to protect the 50 ampere, 4-wire receptacle specified in subsection E 391.06(1) and the other rated not less than 20 amperes to protect the 20 ampere, 3-wire receptacle specified in subsection E 391.06(1).

(2) Each space in an overnight camping park shall be provided with a disconnecting means and overcurrent protective device rated not less than 20 amperes to protect the 20 ampere, 3-wire receptacle specified in subsection E 391.06(2).

(3) A permanent trailer or mobile home space shall be provided with a disconnecting means and overcurrent protective device rated not less than 50 amperes.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.06 Receptacles. Receptacles shall be provided for each trailer or mobile home space as follows:

(1) Each space in a trailer or mobile home park shall be provided with one 50 ampere, 4-wire grounding type receptacle and one 20-ampere, 3-wire grounding type receptacle.

(2) Each space in an overnight camping park shall be provided with a 20 ampere, 3-wire grounding type receptacle.

(3) A permanent trailer or mobile home space shall be provided with a 50 ampere, 4-wire grounding type receptacle or have the power supply cord wired directly into the service equipment.

(4) The trailer or mobile home space receptacles may be an integral part of the service equipment or may be separate in which case they shall have a weatherproof enclosure of a type which does not expose the power supply cord plug to the weather when it is inserted into the receptacle.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.07 Power supply cord. Each trailer or mobile home shall be supplied through a power supply cord rated not less than the ampere rating of the distribution panel within the trailer or mobile home and

containing a grounding conductor in addition to the neutral conductor within the cord.

(1) *Exception.* For existing trailers which do not have provisions for grounding through a conductor within the power supply cord, a separate grounding conductor shall be run from the disconnecting means to the trailer or mobile home where it shall be attached to the metal frame and shell.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

E 391.08 Grounding. Bonding to neutral. The branch circuit grounding conductor shall be bonded to the system neutral conductor within the disconnecting means enclosure. A separate common grounding conductor shall be run from a grounding electrode to the disconnecting means enclosure where it shall be bonded to the system neutral and branch circuit grounding conductor. The grounding electrode shall always be a metallic underground water piping system where such a piping system is available.

History: Cr. Register, April, 1964, No. 100, eff. 5-1-64.

Note: See chapter E 250.