

## Outlet Boxes and Fittings Classified for Fire Resistance

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R9379

**Paragraph 1:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 3300, 3303, 9301, 9302, 9304, 9305, 9307, 9312, 9313, 9318, 9323, 9324, 9327, 9328, 9329-E, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes. For use in fire resistance walls constructed of wood or nonbearing steel studs and gypsum board with Classification periods of 2 hrs or less. Clearance between boxes and cutouts in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 22.0 sq in. Outlet and switch boxes on opposite sides of a wall or partition shall be separated by a horizontal distance of not less than 24 in. In walls containing 3-1/2 in. thick, min 2.5 pcf mineral wool batt insulation the horizontal separation between two or three gang outlet and switch boxes on opposite sides of the wall or partition may be reduced to 3 in. In walls containing 3-1/2 in. thick, min 0.70 pcf glass fiber batt insulation, the horizontal separation between two gang outlet and switch boxes on opposite sides of the wall or partition may be reduced to 6.5 in.

**Paragraph 2:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 3300, 3303, 9301, 9302, 9304, 9305, 9307, 9312, 9313, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use in 1 and 2 hr fire rated gypsum board/wood stud wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory . Clearance between boxes and cut-outs in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 22.0 sq in. Outlet and switch boxes on opposite sides of a wall or partition within the same stud cavity shall be separated by a horizontal distance of not less than 3 in. Boxes are suitable for installation in staggered stud wall configuration. Outlet and switch boxes on opposite sides of the wall and in separate stud cavities may be separated by a horizontal spacing of not less than 1-1/2 in.

**Paragraph 3:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 3300, 3303, 9301, 9302, 9304, 9305, 9307, 9312, 9313, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use in 1 and 2 hr fire rated load bearing wood stud or non-load bearing steel stud wall assemblies constructed as specified in the Wall and Partition Designs in the Fire Resistance Directory . Clearance between boxes and cut-outs in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than

100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 22.0 sq in. Outlet and switch boxes on opposite sides of a wall or partition within the same stud cavity shall be separated by a horizontal distance of not less than 3 in.

**Paragraph 4:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 3300, 3303, 9301, 9302, 9304, 9305, 9307, 9312, 9313, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use in Design No. U351 incorporating staggered studs and mineral wool cavity infill. Clearance between boxes and cut-outs in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 22.0 sq in. Outlet and switch boxes on opposite sides of a wall or partition within the same stud cavity shall be separated by a horizontal distance of not less than 3 in. Outlet and switch boxes on opposite sides of the wall and in separate stud cavities may be separated by a horizontal spacing of not less than 1-1/2 in.

**Paragraph 5:** Series PC213, PC234, PC223OW, 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 9301, 9304, 9305, 9307, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9350, 9351, 9355, 9356, 9358, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9373, 9374, 9375, 9390, 9395, SB-CB, SB-CBFR, nonmetallic outlet boxes with various suffixes, intended for fixture supports. For use in fire resistance floor-ceiling assemblies consisting of wood floor, solid or pre-engineered wood joists or trusses and gypsum board ceiling with Classification periods of 2 hrs or less. Clearance between boxes and cutouts in ceiling shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 64.7 sq in. per 100 sq ft of ceiling area, with no opening exceeding 12.5 sq in. No box shall be located within 4.5 ft of another box within a common joist cavity. When the supports are solid wood joists or pre-engineered wood joists with solid web members, the distance between boxes in adjacent cavities may be reduced to 5-1/2 in. center-to-center.

**Paragraph 6:** Types P-116OW, P122SC, P-108E, P-108H, P-181H, P181, P201, P241, P332, P442, P463, P643, P-118OW, P-122OW, P-240OW, P-352OW, PJ20, PJ32, SB1, SB1-H, SB2, and SB3, nonmetallic outlet and switch boxes. For use in fire resistance walls constructed of wood or nonbearing steel studs and gypsum board with Classification periods of 2 hrs or less. Clearance between boxes and cutouts in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 22.3 sq in. Outlet boxes on opposite sides of wall or partition shall be separated by a horizontal distance of not less than 24 in.

**Paragraph 7:** Type 9314-E, 5305, 4300, 4304 nonmetallic outlet and switch boxes. For use in fire resistance walls constructed of wood or nonbearing steel studs and gypsum board with Classification periods of 2 hrs or less. Clearance between boxes and cutouts in wall shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no opening exceeding 35.2 sq in. Outlet boxes on opposite sides of wall or partition shall be separated by a horizontal distance of not less than 24 in.

**Paragraph 8:** Types P-116OW, P122SC, P-108E, P-108H, P-181H, P181, P201, P241, P-122OW, PJ20, PJ32, SB1, SB1-H, SB2, and SB3, nonmetallic outlet boxes not intended for fixture support. For use in fire resistance floor-ceiling assemblies consisting of wood floor, solid or pre-engineered wood joists or trusses and gypsum board ceiling with Classification periods of 2h or less. Clearance between boxes and cutouts in ceiling shall not exceed 1/8 in. The area of openings for boxes shall not aggregate more than 26.5 sq in. per 100 sq ft of ceiling area, with no opening exceeding 12.5 sq in. No box shall be shall be located within 4.5 ft of another box. The boxes shall be installed in compliance with the National Electrical Code.

**Paragraph 9:** Types 9500 nonmetallic outlet and switch boxes. For use in fire resistance walls constructed of wood or nonbearing steel studs and gypsum board with Classification periods of 2 hrs or less. Max. wall opening not to exceed two 3/4 in. in diam holes per box. The boxes shall not aggregate more than 100 sq in. per 100 sq ft of wall or partition area with no box exceeding 12.6 sq in. Outlet boxes on opposite sides of wall or partition shall be separated by a horizontal distance of not less than 24 in. Type 9500 nonmetallic outlet and switch boxes to be installed per the accompanying installation instruction sheet.

**Paragraph 10:** Types 9500 nonmetallic outlet boxes intended for fixture support. For use in fire resistance floor-ceiling assemblies consisting of wood floor, solid or pre-engineered wood joists or trusses and gypsum board ceiling with Classification periods of 2 hrs or less. Max ceiling opening not to exceed two 3/4 in diam holes per box. The boxes shall not aggregate more than 26.5 sq in. per 100 sq ft of ceiling area, with no opening exceeding 12.6 sq in. No box shall be located within 4.5 ft. of another box. Type 9500 nonmetallic outlet and switch boxes to be installed per the accompanying installation instruction sheet and in compliance with the National Electrical Code.

**Paragraph 11:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 3300, 3303, 9301, 9302, 9304, 9305, 9307, 9312, 9313, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use with moldable putty pads manufactured by Specified Technologies Inc. and designated Spec Seal Putty Pads. Spec Seal putty pads are Classified in the Fire Resistance Directory under the category **Wall Opening Protective Materials**. Putty pads and boxes for use in 1 and 2 hr fire rated load bearing wood stud or non-load bearing steel stud wall assemblies constructed as specified in the individual Wall and Partition Designs in the Fire Resistance Directory . Outlet box secured to wood stud by means of two nailing tabs in conjunction with nails supplied with the outlet box. Min 3/16 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including nailing tabs and completely seal against the stud within the stud cavity. An additional 3/16 in. thickness of putty to be formed around the end of each nonmetallic sheathed cable at its connection to the box. Boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

**Paragraph 12:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 9301, 9302, 9304, 9305, 9307, 9312, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use with moldable putty pads manufactured by Minnesota Mining & Mfg Co. and designated MPP-4S+ Putty Pads. MPP-4S+ putty pads are Classified in the Fire Resistance Directory under the category **Wall Opening Protective Materials**. Putty pads and boxes for use in 1 and 2 hr fire rated load bearing wood stud or non-load bearing steel stud wall assemblies constructed as specified in the individual Wall and Partition Designs in the Fire Resistance Directory . Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including nailing tabs and completely seal against the stud within the stud cavity An additional 3/16 in. thickness of putty to be formed around the end of each nonmetallic sheathed cable at its connection to the box. Boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

**Paragraph 13:** Series 1082, 1084, 1085, 1086, 1088, 1096, 1098, 1099, 2300, 2301, 2302, 9301, 9302, 9304, 9305, 9307, 9312, 9318, 9323, 9324, 9327, 9328, 9331, 9332, 9333, 9334, 9335, 9336,

9337, 9338, 9339, 9340, 9342, 9343, 9344, 9350, 9351, 9355, 9356, 9358, 9361, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9390, 9395, RD-38, RD-42 nonmetallic outlet and switch boxes with various suffixes for use with moldable putty pads manufactured by Nelson Firestop Products and designated FSP firestop Putty Pads. FSP firestop putty pads are Classified in the Fire Resistance Directory under the category **Wall Opening Protective Materials**. Putty pads and boxes for use in 1 and 2 hr fire rated load bearing wood stud or non-load bearing steel stud wall assemblies constructed as specified in the individual Wall and Partition Designs in the Fire Resistance Directory . Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including nailing tabs and completely seal against the stud within the stud cavity. An additional 3/16 in. thickness of putty to be formed around the end of each nonmetallic sheathed cable at its connection to the box. Boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

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