

# NFPA 285 Wall Assemblies

MasterSeal<sup>®</sup> AWB | Various Insulations | ASTM C926 Stucco (3/4")

**Note: This is a summary of various wall assemblies that meet the requirements of NFPA 285.**

WALL COMPONENTS	MATERIALS
<b>Base Wall System</b> – Use either 1, 2 or 3	1. Concrete wall. 2. Concrete Masonry wall. 3. 1 layer – 1/2-inch thick, regular or 5/8-inch thick Type X Gypsum wallboard on interior, installed over steel studs: minimum 3 5/8- inch depth, minimum 20-gauge at a maximum of 16-inch OC.
<b>Floorline Fire Stopping</b>	4 lb/cu ft. mineral wool (e.g. Thermafiber) in each stud cavity at each floorline
<b>Cavity Insulation</b> – Use either 1 or 2	1. None 2. Any non-combustible insulation (faced or unfaced)
<b>Exterior Sheathing</b> – Use either 1, 2 or 3	1. None (if concrete wall or masonry wall) 2. 1/2-inch thick exterior gypsum sheathing (for Base Wall System 3 above) 3. 5/8-inch thick Type X exterior gypsum sheathing (for Base Wall System 3 above)
<b>Water-Resistive/Air Barrier Applied to Exterior Sheathing, Concrete or Masonry</b> – Use either 1, 2 or 3	1. MasterSeal AWB 660 2. MasterSeal AWB 660 I 3. MasterSeal AWB 665
<b>Exterior Continuous Insulation</b> – Use either 1, 2, 3, 4, 5 or 6	1. Expanded Polystyrene Foam (EPS) – C578 Type II & Class A per ASTM E84 – maximum thickness of 2.5-inches. 2. Expanded Polystyrene Foam (EPS) – C578 Type XI & Class A per ASTM E84 – maximum thickness of 4.7-inches. 3. Expanded Polystyrene Foam (EPS) – C578 Type IX & Class A per ASTM E84 – maximum thickness of 1.8-inches 4. BASF Neopor rigid insulation foam - C578 Type II (1.45 pcf) & Class A per ASTM E84 – maximum thickness of 2.4-inches 5. Extruded Polystyrene Foam (XPS) – C578 Type X or Type IV & Class A per ASTM E84 – maximum thickness – See Note 1 6. Polyisocyanurate Foam - C1289 compliant & be Class A per ASTM E84 – maximum thickness – See Note 1
<b>Board Joints / Flashing</b> – Use either 1 or 2	1. 4-inch wide MasterSeal AWB 971 FIB installed over all horizontal and vertical joints, embedded in MasterSeal AWB 660, 660 I, or 665. 2. MasterSeal AWB 900 installed over all horizontal and vertical joints
<b>Exterior Veneer</b>	ASTM C926 stucco- 3/4 -inch thick, with PERMALATH 1000 or METAL PLASTER BASE per ASTM C1063

Note 1: The Btu/ft<sup>2</sup> value of the foam plastic must be equal to or less than 4816 Btu/ft<sup>2</sup>.

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