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667 CONGRESS STREET  
APARTMENTS  
PORTLAND, MAINE

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- 4" BRICK VENEER
- STAINLESS STEEL ADJUSTABLE MASONRY TIES 16" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY
- FASTENED INTO STUDS
- 2" AIR SPACE
- HORIZONTAL KARRIER RAIL (FLAT) FLUSH WITH SURFACE OF KARRIER PANEL
- HORIZONTAL 3" KARRIER PANEL, INSULATED METAL SKIN PANEL (R22.5)
- 6" LIGHT GAUGE (16 GAUGE) METAL STUDS AT 16" O.C. (DOUBLE STUDS AT KARRIER PANEL BUTT JOINTS)
- (1) LAYER OF TYPE 'X' 5/8" GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E15  | NA          | NA        | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- FOUNDATION WATERPROOFING
- REINFORCED CONCRETE FOUNDATION WALL
- FOR ABOVE GRADE EXTERIOR VENEER SYSTEMS SEE SECTIONS AND ELEVATIONS

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E10  | N/A         | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

TOTAL WALL R-VALUE = 30.3

- 5/8" EXTERIOR GWB SHEATHING WITH DURABOND AND PAINT FINISH
- VERTICAL 3/4" GALVANIZED STEEL HAT CHANNEL 16" O.C. MAX
- 1-1/2" HORIZONTAL Z-FURRING 24" O.C.
- 1-1/2" POLYISOCYANURATE RIGID INSULATION BOARD (R-10 MIN)
- DRAINAGE PLANE (SHOWN DASHED)
- (2) LAYERS OF 5/8" TYPE-X EXTERIOR GYPSUM SHEATHING
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 5-1/2" BATT INSULATION (R-19)
- MESH NETTING AS REQUIRED
- (2) LAYERS OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E5   | 2 HR        | SIM. U418 | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

TOTAL WALL R-VALUE = 10

- 2" XPS RIGID INSULATION (R-10)
- FOUNDATION WATERPROOFING
- REINFORCED CONCRETE FOUNDATION WALL
- SEE ADDITIONAL WALL TYPES FOR INTERIOR WALL FINISHES AND INSULATION
- FOR ABOVE GRADE EXTERIOR VENEER SYSTEMS SEE SECTIONS AND ELEVATIONS

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E6   | N/A         | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- CONCEALED FASTENER HORIZONTAL METAL SIDING WITH CLIPS
- 3/4" VERTICAL GALVANIZED STEEL HAT CHANNEL (18 GAUGE) 16" O.C.
- HORIZONTAL KARRIER RAIL (FLAT) FLUSH WITH SURFACE OF KARRIER PANEL
- HORIZONTAL 3" KARRIER PANEL, INSULATED METAL SKIN PANEL (R22.5)
- 6" LIGHT GAUGE (16 GAUGE) METAL STUDS AT 16" O.C. (DOUBLE STUDS AT KARRIER PANEL BUTT JOINTS)
- (1) LAYER OF TYPE 'X' 5/8" GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E14  | NA          | NA        | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- FOUNDATION WATERPROOFING
- REINFORCED CONCRETE FOUNDATION WALL
- SEE ADDITIONAL WALL TYPES FOR INTERIOR WALL FINISHES AND INSULATION
- FOR ABOVE GRADE EXTERIOR VENEER SYSTEMS SEE SECTIONS AND ELEVATIONS

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E9   | N/A         | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

TOTAL WALL R-VALUE = 30.3

- 5/8" EXTERIOR GWB SHEATHING WITH DURABOND AND PAINT FINISH
- VERTICAL 3/4" GALVANIZED STEEL HAT CHANNEL 16" O.C. MAX
- 1-1/2" HORIZONTAL Z-FURRING 24" O.C.
- 1-1/2" POLYISOCYANURATE RIGID INSULATION BOARD (R-10 MIN)
- DRAINAGE PLANE (SHOWN DASHED)
- 5/8" TYPE-X EXTERIOR GYPSUM SHEATHING
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 5-1/2" BATT INSULATION (R-19)
- MESH NETTING AS REQUIRED
- LAYER OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E4   | 1 HR        | SIM. U418 | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- ALUCOBOND SIDING PANEL SYSTEM WITH SUPPORT SYSTEM
- 1/2" VERTICAL GALVANIZED STEEL HAT CHANNEL (18 GAUGE) 16" O.C.
- 2" XPS RIGID FOAM INSULATION
- 2" HORIZONTAL Z-FURRING AT 24" O.C.
- SELF ADHERED DRAINAGE PLANE
- LAYER OF TYPE 'X' 5/8" DENSGLAS
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 6" SPRAY APPLIED DENSE-PACK CELLULOSE INSULATION (R-22.8 MIN) DENSITY 3.5LB / CUBIC FT
- MESH NETTING AS REQUIRED
- LAYER OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E11  | 1 HR        | V450      | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- 4" BRICK VENEER
- STAINLESS STEEL ADJUSTABLE MASONRY TIES 16" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY
- 4" AIR SPACE (BRICK STEPS BACK AT LOCATIONS SHOWN ON ELEVATIONS)
- 8" CMU WITH INTEGRAL WATERPROOFING

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E13  | 1 HR        | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- ALUCOBOND SIDING PANEL SYSTEM WITH SUPPORT SYSTEM
- 3/4" VERTICAL GALVANIZED STEEL HAT CHANNEL (18 GAUGE) 16" O.C.
- HORIZONTAL KARRIER RAIL (FLAT) FLUSH WITH SURFACE OF KARRIER PANEL
- HORIZONTAL 3" KARRIER PANEL, INSULATED METAL SKIN PANEL (R22.5)
- 6" LIGHT GAUGE (16 GAUGE) METAL STUDS AT 16" O.C. (DOUBLE STUDS AT KARRIER PANEL BUTT JOINTS)
- (2) LAYERS OF TYPE 'X' 5/8" GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E8   | 1 HR        | U053      | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- GALVANIZED AND PAINTED STEEL PILASTER
- 2" XPS RIGID FOAM INSULATION
- SELF ADHERED DRAINAGE PLANE
- LAYER OF TYPE 'X' 5/8" DENSGLAS
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 6" SPRAY APPLIED DENSE-PACK CELLULOSE INSULATION (R-22.8 MIN) DENSITY 3.5LB / CUBIC FT
- MESH NETTING AS REQUIRED
- LAYER OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E12  | 1 HR        | U053      | NA         | N/A        |

**TYPICAL BEAM FIREPROOFING**

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
|      | 2 HR        | N708      | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- ALUCOBOND SIDING PANEL SYSTEM WITH SUPPORT SYSTEM
- 1/2" VERTICAL GALVANIZED STEEL HAT CHANNEL (18 GAUGE) 16" O.C.
- 2" XPS RIGID FOAM INSULATION
- 2" HORIZONTAL Z-FURRING AT 24" O.C.
- SELF ADHERED DRAINAGE PLANE
- LAYER OF TYPE 'X' 5/8" DENSGLAS
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 6" SPRAY APPLIED DENSE-PACK CELLULOSE INSULATION (R-22.8 MIN) DENSITY 3.5LB / CUBIC FT
- MESH NETTING AS REQUIRED
- LAYER OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E12  | 1 HR        | V450      | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- GALVANIZED AND PAINTED STEEL PILASTER
- 2" XPS RIGID FOAM INSULATION
- SELF ADHERED DRAINAGE PLANE
- LAYER OF TYPE 'X' 5/8" DENSGLAS
- 6" 18 GAUGE METAL STUDS 16" O.C.
- PROVIDE CONTINUOUS 6" HORIZONTAL BLOCKING AT MID-HEIGHT OF WALL
- 6" SPRAY APPLIED DENSE-PACK CELLULOSE INSULATION (R-22.8 MIN) DENSITY 3.5LB / CUBIC FT
- MESH NETTING AS REQUIRED
- LAYER OF 5/8" TYPE-X GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E7   | 1 HR        | V450      | NA         | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- 4" BRICK VENEER
- STAINLESS STEEL ADJUSTABLE MASONRY TIES 16" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY
- FASTENED INTO STUDS
- 2" AIR SPACE
- HORIZONTAL KARRIER RAIL (FLAT) FLUSH WITH SURFACE OF KARRIER PANEL
- HORIZONTAL 3" KARRIER PANEL, INSULATED METAL SKIN PANEL (R22.5)
- 6" LIGHT GAUGE (16 GAUGE) METAL STUDS AT 16" O.C. (DOUBLE STUDS AT KARRIER PANEL BUTT JOINTS)
- (2) LAYERS OF TYPE 'X' 5/8" GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E2   | 1 HR        | U053      | NA         | N/A        |

**TYPICAL COLUMN FIREPROOFING**

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
|      | 2 HR        | X701      | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- FOUNDATION DAMPPROOFING
- REINFORCED CONCRETE FOUNDATION WALL
- FOR ABOVE GRADE EXTERIOR VENEER SYSTEMS SEE SECTIONS AND ELEVATIONS

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E11  | N/A         | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

- 4" BRICK VENEER
- STAINLESS STEEL ADJUSTABLE MASONRY TIES 16" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY
- 4" AIR SPACE (BRICK STEPS BACK AT LOCATIONS SHOWN ON ELEVATIONS)
- DRAINAGE PLANE
- 8" CMU, GROUT FILL PER STRUCTURAL DRAWINGS
- PAINT COATING

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E6   | N/A         | N/A       | N/A        | N/A        |

**GRAPHIC DEPICTION**

**DESCRIPTION**

R-VALUE 22.5

- CONCEALED FASTENER HORIZONTAL METAL SIDING WITH CLIPS
- 3/4" VERTICAL GALVANIZED STEEL HAT CHANNEL (18 GAUGE) 16" O.C.
- HORIZONTAL KARRIER RAIL (FLAT) FLUSH WITH SURFACE OF KARRIER PANEL
- HORIZONTAL 3" KARRIER PANEL, INSULATED METAL SKIN PANEL (R22.5)
- 6" LIGHT GAUGE (16 GAUGE) METAL STUDS AT 16" O.C. (DOUBLE STUDS AT KARRIER PANEL BUTT JOINTS)
- (2) LAYERS OF TYPE 'X' 5/8" GWB

**TYPE**

| TYPE | FIRE RATING | UL NUMBER | STC RATING | IIC RATING |
|------|-------------|-----------|------------|------------|
| E1   | 1 HR        | U053      | NA         | N/A        |

**WALL TYPE NOTES**

- REFER TO STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING
- ALL NON-LOAD BEARING WALLS THAT ARE FRAMED TO DECKING OR STRUCTURE ABOVE ARE TO HAVE A HEAD DEFLECTION SLIP TRACK
- FIRE RATED WALLS TO EXTEND UP TO DECKING ABOVE THROUGH THE FLOOR / CEILING ASSEMBLY. AT FLUTED DECKING DRYWALL TO BE CUT TO AND EXTEND UP TO PROFILE OF DECK FLUTES WITH ALLOWANCE FOR DEFLECTION JOINT
- AT INTERIOR WALLS OF UNITS, FIRE RATED CEILING GWB MEMBRANE TO RUN CONTINUOUSLY OVER TOP OF WALLS, WHERE INTERIOR UNIT WALLS INTERSECT FIRE WALLS THE FIREWALL GWB WALL MEMBRANE TO RUN CONTINUOUSLY PAST THE INTERIOR UNIT WALL
- INSTALL WATER RESISTANT GYPSUM WALLBOARD IN ALL RESTROOMS AND TOILET ROOM WALLS AND CEILINGS, AND AT ANY WALL WITH PLUMBING FIXTURES
- PROVIDE 3" GWB BEHIND ALL TUBS AND SHOWERS AT EXTERIOR WALLS AND FIRE RATED ASSEMBLIES. PROVIDE ADDITIONAL LAYER OF GWB TO COVER TUB AND SHOWER FLANGE. EXTEND ADDED LAYER ALONG ADJACENT WALLS AND ADJUST DOOR JAMB WIDTHS AS REQUIRED.
- WHEN TWO ADJACENT WALL TYPES HAVE DIFFERING NUMBERS OF LAYERS OF GWB, THE FINISHED FACE OF GWB MUST FORM ONE CONTINUOUS PLANE. ADJUST STUD PLANE LOCATION AS REQUIRED TO ACHIEVE THE CONTINUOUS PLANE
- HOLD BOTTOM OF GWB UP 1/2" FROM CONCRETE, PROVIDE SEALANT AT JOINT.
- ALL WALL TYPES WITH AN INSULATION COMPONENT TO BE ACOUSTICALLY SEALED
- PROVIDE ACOUSTICAL SEALANT AROUND ALL PENETRATING ELEMENTS IN WALLS AND CEILINGS (ELECTRICAL BOXES, DUCTS, PIPES, ETC)
- PROVIDE DIAGONAL BRACING UP TO DECK ABOVE AT ALL INTERIOR PARTITIONS THAT DO NOT GO UP TO DECK ABOVE FOR STIFFNESS



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REVISIONS:

DATE: 2 NOVEMBER 2016  
PROJECT No. 1503  
DRAWN BY: RJS / RRT  
CHECKED BY: RJS  
SCALE: AS NOTED

SHEET TITLE:  
EXTERIOR WALL,  
COLUMN AND  
BEAM TYPES

A0-1