

WALL COMPONENT	MATERIAL OPTIONS
A. BASE WALL – USE 1, 2, 3 OR 4	1) CONCRETE – CAST IN PLACE OR TILT-UP 2) CONCRETE MASONRY UNIT (CMU) 3) STEEL STUDS – 25 GAUGE OR THICKER, 3½” DEPTH MINIMUM, 24 IN. O.C. MAXIMUM SPACING. LATERAL BRACING REQUIRED EVERY 4 FT. ½” TYPE X GYPSUM WALLBOARD, OR EQUIVALENT THERMAL BARRIER, REQUIRED ON THE INTERIOR SIDE. 4) FRTW (FIRE-RETARDANT TREATED WOOD) STUDS, MINIMUM NOMINAL 2X4 DIMENSION, SPACED MAX 24” O.C, BRACING AS REQUIRED BY CODE. ½” TYPE X GYPSUM WALLBOARD, OR EQUIVALENT THERMAL BARRIER, REQUIRED ON THE INTERIOR SIDE.
FIRE STOPPING REQUIRED AT FLOOR LINES (IF STUDS RUN CONTINUOUSLY PAST FLOOR SLAB) – USE 1 OR 2.	1) ANY APPROVED MINERAL FIBER BASED SAFING INSULATION IN EACH STUD CAVITY AT FLOOR LINE. SAFING THICKNESS MUST MATCH STUD CAVITY DEPTH. 2) SOLID FRTW FIRE BLOCKING AT FLOOR LINE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR TYPE III CONSTRUCTION.
B. STUD CAVITY INSULATION – USE 1, 2, 3, 4 OR 5.	1) NONE 2) SPRAY POLYURETHANE FOAM 1½” MINIMUM UP TO FULL CAVITY THICKNESS: BAYER ECOBAY CC OR BASF WALLTITE 3) ANY FOAM PLASTIC INSULATION (SPF OR BOARD TYPE) WHICH HAS BEEN TESTED PER ASTM E1354 (AT A MINIMUM OF 20 KW/M <sup>2</sup> HEAT FLUX) AND SHOWN BY ANALYSIS TO BE LESS FLAMMABLE (IMPROVED T <sub>img</sub> , Pk. HRR) THAN BAYER ECOBAY CC OR BASF WALLTITE. 4) ANY NONCOMBUSTIBLE INSULATION PER ASTM E136 5) ANY MINERAL FIBER OR FIBERGLASS BOARD/BATT, CLASS A ASTM E84, FACED OR UNFACED
C. EXTERIOR SHEATHING OVER STEEL OR FRTW STUD BASE WALL – USE 1 OR 2	1) ½” OR THICKER EXTERIOR GYPSUM SHEATHING 2) ½” (MIN.) FRTW STRUCTURAL PANELS IN TYPE III CONSTRUCTION ALLOWED IN PLACE OF GYPSUM SHEATHING WHEN COMBUSTIBLE STUD CAVITY INSULATION IS NOT USED.
D. WRB OVER BASE WALL SURFACE – USE 1, 2 OR 3  OPTION 5 (BARRITECH NP60) CAN ONLY BE USED WITH BASE WALL ASSEMBLIES 1 OR 2 (CMU OR CONCRETE).	1) FIRE-RESIST 705 VP 2) FIRE-RESIST 705FR-A 3) FIRE-RESIST BARRITECH NP 4) FIRE-RESIST BARRITECH VP/ VP-LT 5) FIRE-RESIST BARRITECH NP60
E. EXTERIOR INSULATION –	R2+ SILVER POLYISOCYANURATE INSULATION BY CARLISLE COATINGS & WATERPROOFING. 20 PSI OR 25 PSI GRADE. 3½” THICK MAXIMUM
INSULATION JOINT PREP AND ATTACHMENT PERMITTED WITH CCW R2+ SILVER  NOTE: R2+ SILVER JOINTS DO NOT NEED TO BE TAPED IF CCW MEMBRANE AIR BARRIER IS INSTALLED ON BASE WALL ASSEMBLY OR ON R2+ SILVER.	1) R2+ SILVER SHALL BE SECURED WITH ONE OF THE FOLLOWING METHODS: a. CLADDING ATTACHMENT HARDWARE OR OTHER APPROVED MECHANICAL FASTENING AS SHOWN IN R2 SERIES DETAILS. b. CCW LM 800 XL ADHESIVE APPLIED IN ¾” X 3” DABS, 16” O.C. ADHERING R2+ SILVER TO WRB OR TO BASE WALL SURFACE. 2) FOMO HANDIFOAM FIREBLOCK OR TVM FIREBLOCK MAY BE USED AS GAP FILLER BETWEEN R2+ SILVER INSULATION PANELS. 3) CAV-GRIP™ OR TRAVEL-TACK MAY BE USED AS AN ADHESIVE CAN BE USED TO ASSIST WITH PLACEMENT AND INSTALLATION OF R2+ SILVER. 4) R2+ SILVER BOARD JOINTS AND TERMINATIONS MAY BE TAPED AS FOLLOWS: 4” FOIL-GRIP-1402 OVER SHEATHING JOINTS AND ALUMAGRIP-701 WRAPPING OPENINGS AND COVERING CORNERS, TRANSITIONS AND TERMINATIONS.

REF: DRJ ENGINEERING TECHNICAL EVALUATION REPORT TER 1407-1

DETAIL IS INTENED TO BE A GUIDE FOR  
INSTALLATION OF CCW PRODUCTS ONLY.

R2-0D.1

R2+ SILVER NFPA 285  
TABLE OF SUBSTITUTIONS