MASONRY VENEER

2" AIR SPACE
2" RIGID INSULATION
CONCAVE MORTAR JOINT
6" 16GA STEEL STUD 16"O.C., WITH
PROTECTIVE COATING ASTM
A653/653M, G90/Z275; ASTM
A875/875M, GF90/ZG275
SIDE MOUNT ADJUSTABLE TIES (HOT-
DIPPED GALVANIZED), FASTEN TO WEB
OF STEEL STUD, SPACED 16"O.C. X
24"O.C. WITH SELF-TAPPING CARBON
STEEL SCREWS WITH ZINC, POLYMER OR
COMPOSITE ZINC-POLYMER COATING
ALONG WITH SEALING WASHERS

EXTERIOR SHEATHING
5/16" GYPSUM WALL BOARD
MOISTURE, VAPOR AND AIR BARRIER
(40 MIL RUBBERIZED ASPHALT)

ADVANTAGES
- BACK-UP PROVIDES TEMPORARY ENCLOSURE DURING
  CONSTRUCTION
- EXCELLENT WATER RESISTANCE TO WIND-DRIVEN RAIN
- FIRE RATING-1 HOUR ON EXTERIOR MASONRY
  SURFACE
- GOOD THERMAL RESISTANCE
- INSULATION RETAINER CLIP POSITIVELY SECURES
  INSULATION
- SCREWS IN SHEAR – GREATER CAPACITY
- THERMAL MASS CONSIDERATION FOR MASONRY
  VENEER
- WEIGHT OF WALL

DISADVANTAGES/CONCERNS
- CONDUCT A CONDENSATION ANALYSIS
- DEW POINT TO OCCUR OUTSIDE OF STUDS
- FIBERGLASS FACED GYPSUM SHEATHING
- ADHESION CONCERNS WITH RUBBERIZED ASPHALT ON
  COLD, DAMP, AND/OR DUSTY SUBSTRATES
- MINIMUM TEMPERATURE REQUIRED FOR INSTALLATION OF
  JOINT SEALANT
- RUBBERIZED ASPHALT MAY NOT BE REQUIRED FOR
  PROPERLY SEALED JOINTS
- PUNCH HOLES MAY DETERIORATE
- HIGHER MAINTENANCE COST
- INTERIOR FINISH HAS LOW ABUSE RESISTANCE
- L/600 MINIMUM DEFLECTION (BIA RECOMMENDATION)
  - ALLOWS MAXIMUM CRACK WIDTH OF .015” IN
    MASONRY VENEER
- L/600-L/900 DEFLECTION (SUGGESTED RANGE)
  - L/900 WILL REDUCE SIZE AND FREQUENCY OF MASONRY
    VENEER CRACKS
- MAINTENANCE – INSPECT PERIODICALLY (PER BIA 28B
  REVISED NOVEMBER 1999)
- MASONRY VENEER HEIGHT LIMITED
  - 30 FEET AT PLATE
  - 38 FEET AT GABLE
- NO FIELD WELDING OF STUDS SHOULD BE PERMITTED
- REQUIRES SEAL AROUND ALL OPENINGS WHERE MOISTURE,
  VAPOR AND AIR BARRIER HAS BEEN PENETRATED BY TIES
- REQUIRES SPECIAL MOISTURE CONSIDERATION FOR PARAPET
  WALLS WITH STEEL STUDS
- SHELF ANGLES SHOULD BE SUPPORTED BY STRUCTURAL STEEL
  AND NOT BY STEEL STUDS
- REQUIRES A HORIZONTAL EXPANSION JOINT BENEATH
  SHELF ANGLE
- SHOP WELDING MAY BE PERMITTED WITH A MINIMUM 14
  GAUGE
- GALVANIZING MUST BE REPAIRED TO ASTM STANDARDS

*The figures represent total cost including labor, material,
overhead, and profit. All masonry wall costs were based on
a straight run wall with no openings. The cost will be
greater when considering openings, corners, site conditions,
material handling conditions and weather. Use for
comparative purposes only and not as an estimate.