MASONRY VENEER

2" AIR SPACE

2" RIGID INSULATION

6" 16GA STEEL STUD 16"O.C., WITH
PROTECTIVE COATING ASTM
A653/653M, G90/Z275; ASTM
A875/875M, GF90/ZG275

ADJUSTABLE TIES (HOT-DIPPED
GALVANIZED), SPACED 16"O.C. X
16"O.C. WITH SELF-TAPPING
CARBON STEEL SCREWS WITH ZINC,
POLYMER OR COMPOSITE ZINC-
POLYMER COATING ALONG WITH
SEALING WASHERS

CONCAVE MORTAR JOINT

EXTERIOR SHEATHING

5/8" 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

• 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 DETROIRATE

• 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

PROVIDE PRONGS ON TIE

PROVIDE TIES INCORPORATING SEALING MEMBRANES

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,
matter handling conditions and weather. Use for
comparative purposes only and not as an estimate.

The decision to utilize this information is not within the purview of the MIM, and persons making use of this information do so at their own risk. MIM makes no representation or warranties, expressed or implied, with respect to the accuracy
or suitability of this information. MIM and its members disclaim liability for damages of any kind, including any special, indirect, incidental, or consequential damages, which may result from the use of this information. This information is
not to be interpreted as indicating compliance with, or waiver of, any provision of any applicable building code, ordinance, standard or law.