

Table 2-1 System Comparison Matrix

| Comparison Categories | Anchored Masonry Veneer Systems (See Chapter 6) | | | Single-Wythe CMU (See Chapter 7) |
|--------------------------------------|---|--|--|---|
| | | | | |
| Backup Wall Structure | CMU or Concrete | Steel Stud-Framed | Wood-Framed | CMU |
| Maximum Building Height | | | | |
| Insulation Strategy | Exterior of structure | In framed cavity and exterior of structure | In framed cavity; insulation exterior of structure optional | Interior of structure |
| Typical Assembly Thermal Performance | R-10 through R-20+ See page 138 for thermal performance information. | R-15 through R-20+ Exterior insulation typical to compensate for highly conductive steel framing. See page 141 for thermal performance information. | R-18 through R-20+ For a greater assembly effective R-value, exterior insulation may be added to this assembly. See page 147 for thermal performance information. | R-7 through R-20+ Interior continuous insulation unbridged by highly conductive steel framing provides the greatest effective R-value. See page 151 for thermal performance information. |
| Cladding Attachment (Lateral Loads) | Anchored Cavity depths are limited to 6 3/8" per TMS-402-16. ¹ See page 71 for anchor options. | Anchored Cavity depths are limited to 6 3/8" per TMS 402-16. ¹ See page 71 for anchor options. | Anchored Cavity depths are limited to 6 3/8" per TMS 402-16. ¹ See page 71 for anchor options. | N/A Independent cladding design not applicable; wall structure provides cladding element. |
| Cladding Support (Gravity Loads) | Bearing Elements Requires TMS-402-16 ¹ required bearing elements such as footings, shelf angles, and floor slabs. | Bearing Elements Requires TMS-402-16 ¹ required bearing elements such as footings, shelf angles, and floor slabs. | Bearing Elements Requires TMS-402-16 ¹ required bearing elements such as footings, shelf angles, and floor slabs. | Bearing Elements Single-wythe system is the cladding and is supported by footings and floor slabs. |
| Fire Resistance Rating | | | | |

Legend:

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|-------------------------|---------------------------|---------------------------|----------------------------|------------------------|----------|
| Maximum Building Height | Low ≤ 3 stories | Mid 4–8 stories | High ≥ 9 stories | Fire Resistance Rating | = 1 HOUR |
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