### **Residential Brickwork**

OCEOA August 15, 2019 Jim Tann The Belden Brick Company





















Ohio Residential Code (ORC)









### Masonry Veneer

Height of masonry limited to 30 feet above foundation and 38 feet at gables SDC A B & C



## Anchorage

#### Corrugated Ties - 1" air space

Wire Ties - 41/2" air space





### Anchorage

#### Spacing @ 32in OC Horizontal 24in OC Vertical 1 tie per 2 2/3 sq ft wall area

Additional at 3' centers Within 12" of Opening

# Flashing

#### Base of Wall















## Flashing

Atop window/door openings Chimney/wall intersections Copings and Sills Wall/roof intersections

#### **FLASHING-CRITICAL POINTS**
















## Weepholes

## Required at 33 inches OC







## **Fireplaces and Chimneys**



TABLE 1001.1   SUMMARY OF REQUIREMENTS FOR   MASONRY FIREPLACES AND CHIMNEYS   LETTER*   REQUIREMENTS		
ITEM	A	4"
Hearth slab thickness Hearth extension	В	8" fireplace opening < 6 square feet. 12" fireplace opening $\geq$ 6 square feet.
(each side of opening) Hearth extension (front of opening)	С	16" fireplace opening < 6 square feet. 20" fireplace opening $\geq$ 6 square feet.
Hearth slab reinforcing	D	Reinforced to carry its own weight and all imposed loads.
Thickness of wall of firebox	E	10" solid brick or 8" where a firebrick lining is used. Joints in firebrick $1/4$ " maximum.
Distance from top of opening to throat	F	8"
Smoke chamber wall thickness Unlined walls	G	6" 8"
Chimney Vertical reinforcing <sup>b</sup>	Η	Four No. 4 full-length bars for chimney up to 4 wide. Add two No. 4 bars for each additional 4 or fraction of width or each additional flue.
Horizontal reinforcing	J	<sup>1</sup> / <sub>4</sub> " ties at 18" and two ties at each bend in vertical steel.
Bond beams	K	No specified requirements.
Fireplace lintel	L	Noncombustible material.
Chimney walls with flue lining	М	Solid masonry units or hollow masonry units grouted solid with not less than 4-inch nomin thickness.
Distances between adjacent flues		See Section 1003.13.
Effective flue area (based on area of ireplace opening)	Р	See Section 1003.15.







































































