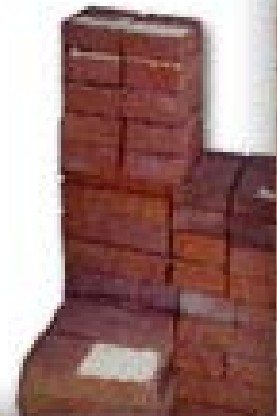




Weep Hole Mesh



Khera Osbourne
Amanda Holenstein
Building Tech

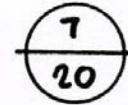
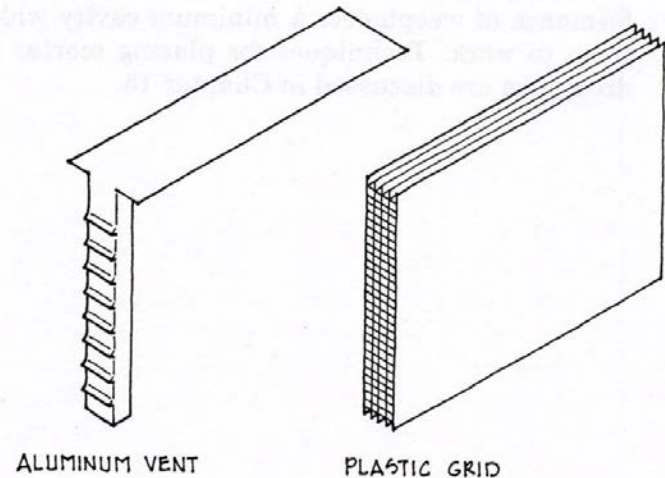
The History of Weep Holes

- 🧱 Weep holes are the intentional absence of mortar between evenly spaced headers through the bottom coursing of masonry walls
- 🧱
 1. Allow for water to drain out of the brick
 2. Allow ventilation through the back of the wall
- 🧱 They prevent
 - 🧱 Spalling, efflorescence, mold, and deterioration of the building components
- 🧱 Problems they create
 - 🧱 1. Critters such as mice and insects crawl through them into the cavity wall
 - 🧱 2. They are easily blocked by “trash” mortar (the mortar that falls behind the wall during construction)
- 🧱 Flawed solutions before weep mesh
 - 🧱 Hollowed out joints, louvered vents, rope wicks, tubes

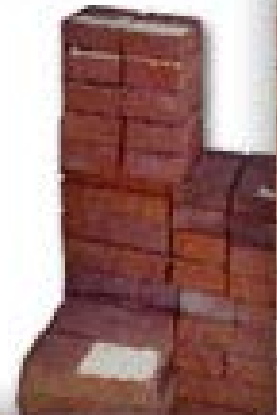


Weep Mesh

- ❏ Weep mesh is a flexible plastic substance that is placed at even intervals along the base of the building – directly above flashing
- ❏ Two types of weep mesh
 - ❏ Aluminum vent with louver slots
 - ❏ Plastic grid
 - ❏ Both types are meant to disguise the opening
- ❏ Weep mesh fills the place of a head joint, so is the same $\frac{3}{8}$ " width and is the height and depth of the course

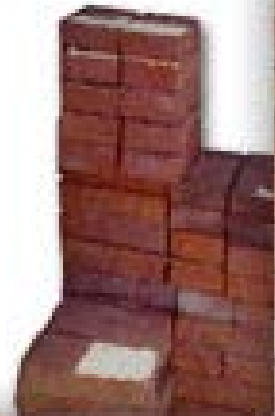


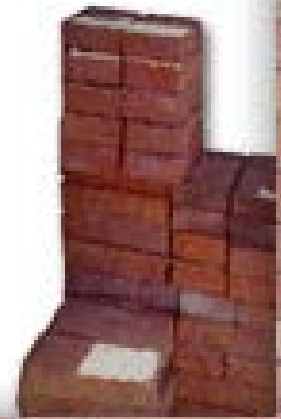
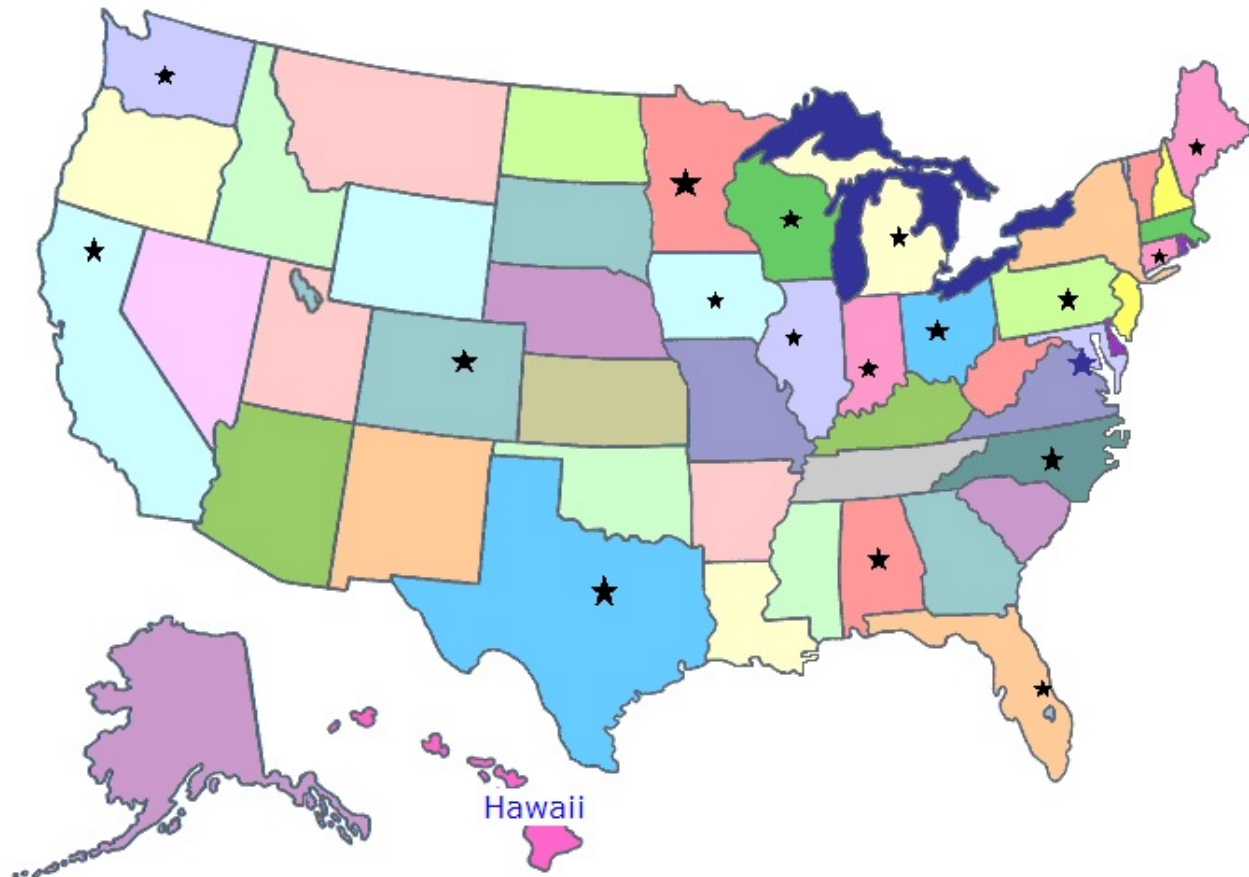
Weephole ventilators.



Origins and Manufacturing

- ❏ In order to guarantee its integrity over time, weep hole mesh is made out of polypropylene-copolymer plastic, which is non-biodegradable
- ❏ It can withstand extreme temperatures and is only permeable through its channels (which enables water to be directed out of the wall)
- ❏ It is manufactured to be the size of the mortar between two standardized bricks
 - ❏ Because of this, it fits perfectly as a substitute for mortar (easily creating a weep hole large enough to avoid trash mortar)
- ❏ For a project on ND's campus
 - ❏ Weep mesh is made in plastic, polymer construction factories
 - ❏ It would be purchased from a local contracting supply company (or supplied by the ND contractor, Ziolkowski Construction)
 - ❏ It is manufactured across the United States, and depending on which supplier was picked, would have a very small travelling carbon footprint (see map)





Works Cited

Allen, Edward. *Fundamentals of Building Construction : Materials and Methods*. New York : Wiley, 1990. Print.

Beall, Christine. *Masonry Design and Detailing*. New York : McGraw-Hill, 2012. Print.

Dalzell, J. R., and Gilbert Townsend. *Masonry Simplified*,. Chicago, American Technical Society, 1956. Print.

Laska, Walter. "Proper Drainage for Weeping Holes." Web.

http://www.masonryconstruction.com/Images/Proper%20Drainage%20for%20Weep%20Holes_tcm68-1375025.pdf>.

"Why Ventilation." Web. toolbase.org bia.org.

<http://www.masonryinnovations.com/why_ventilation.shtml>.

