Mine Safety & Health Administration
Approval & Certification Center
Quality Assurance & Materials Testing Division

Inspection Information for Xella Aircrete North America Inc. AAC2 or AAC4 Lightweight Block Stopping using "Touch n' Seal Mine Block Mortar", or "Xella Thin Bed Mortar" or any MSHA listed Portland Cement Based Strength Enhancing Sealant

(September 24, 2009)

This stopping is constructed in the same manner as a traditional block and mortar stopping except that this stopping uses non-cementitious mortar (s) to construct the stopping. An optional strength enhancing dry stack method (ST30/01) is also listed.

1) The mortared stopping consists of:

- "Touch n' Seal Mine Block Mortar" or "Xella Thin Bed Mortar." (ACC2 only)
- Tongue & groove or flat end lightweight block. (See chart)
- Optional Strength Enhancing Suitable Sealant Construction (ACC2 or AAC4)

2) The following is a list of suitable constructions:

Block	Mortar	Sealant	Suitability No.
6" min. thick - AAC2 Lightweight Tongue & Groove Block	Convenience Products: "Touch n' Seal Mine Block Mortar" (MBM)	none	ST30/00
6" min. thick - AAC2 or AAC4 – Flat or Tongue & Groove Block	na	Strength Enhancing Suitable Sealant [4)]	ST30/01
6" min. thick - AAC2 Lightweight Tongue & Groove Block	"Xella Thin Bed Mortar"	none	ST30/02

3) Installation with mortars (AAC2 only):

a. The stopping is constructed as a traditional concrete block stopping, using uniform, unbroken blocks and a mortar as listed. It is important that the perimeter of the stopping be appropriately constructed so that there are no openings or gaps, since the mortars are not accepted for use to fill such voids.

b. The mortars must not be used to fill gaps in the AAC2 lightweight block stopping. If gaps or openings are present in the AAC2 lightweight block stopping, the broken block should be replaced.

c. Openings or voids around the perimeter of the AAC2 lightweight stopping may be closed by traditional means, such as a Portland cement based mortar.

d. It is not acceptable to use MSHA suitable sealants for filling voids.

e. Any MSHA suitable sealant may be used to coat the constructed stopping.

4) Dry Stacked Installation (AAC2 or AAC4) with Strength Enhancing Sealant:
A strength enhancing portland cement based MSHA suitable sealant is applied full face to the high pressure side, or both sides of the stopping at the thickness listed for the sealant.