

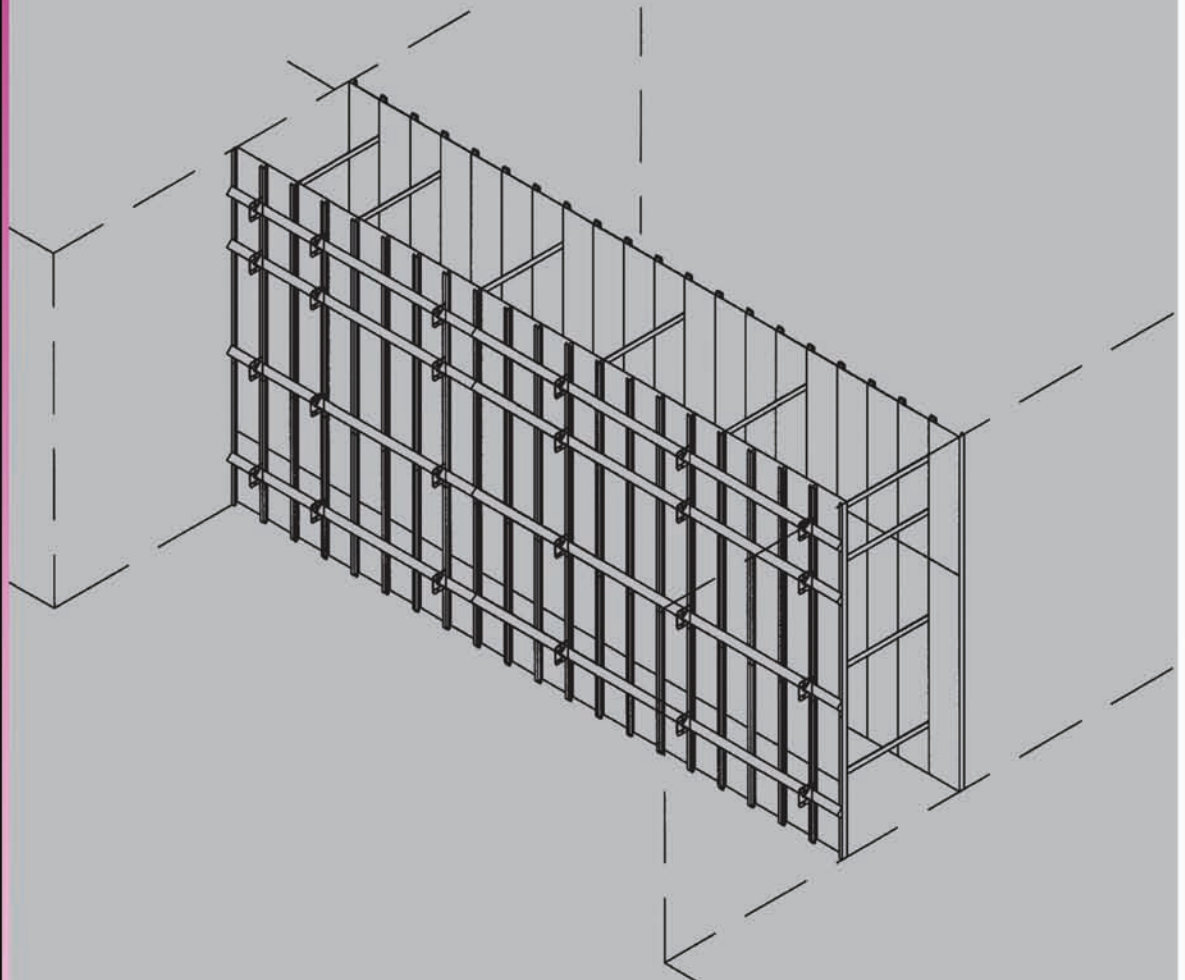


Kennedy NZL Stoppings

*Near Zero Leakage stoppings designed
for main line use over extended periods
of time.*

Jack
Kennedy
Metal
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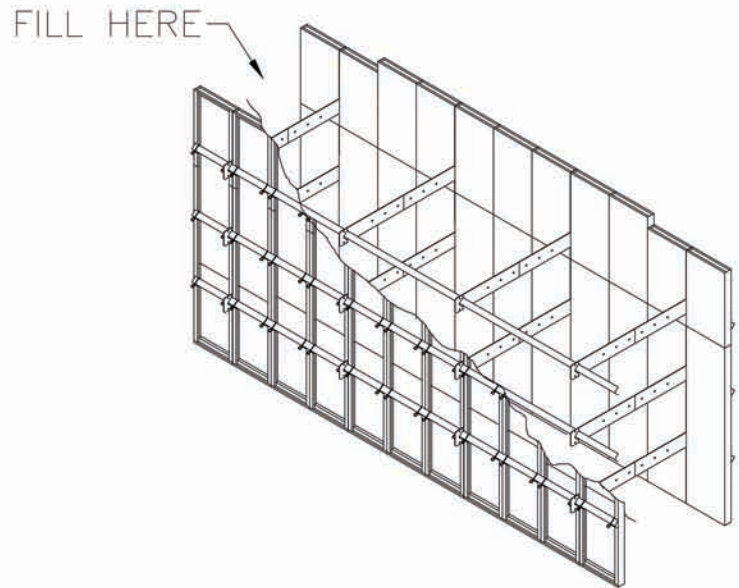
Part of the
Good Air
Solution



The Kennedy NZL Stopping

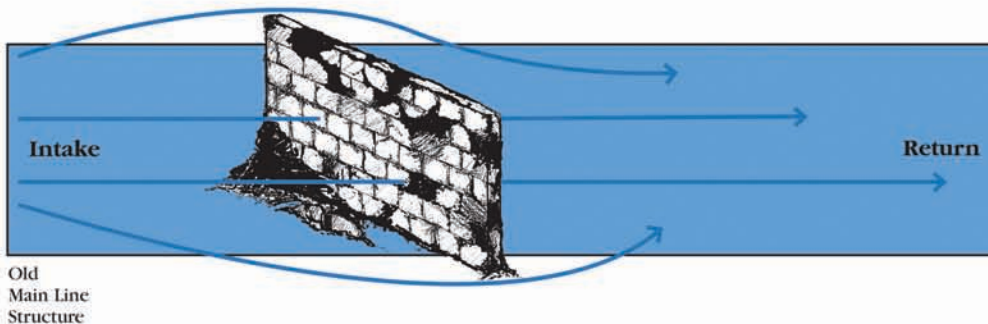
An NZL is two 'ordinary' Kennedy steel stoppings with form-ties between to keep them from spreading while the void between is filled with foamed cement.

The secret of the NZLs is the synergy of the yielding steel structures and the "foamed cement" filling. The foamed cement is not as heavy as concrete so it doesn't try to burst the form apart when filling. More importantly, during convergence, the foamed cement is able to yield by crushing downward into itself without catastrophic failure or putting excessive outward forces on the structure.



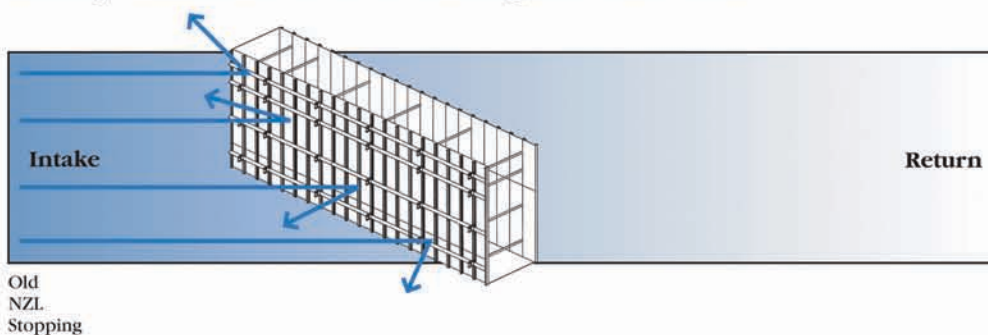
PROBLEM

Existing main line structures deteriorate from excessive pressure and create severely diminished airflow to the working area of the mine



SOLUTION

Replace the worst structures in the air course with Kennedy NZLs and virtually DOUBLE the air to the working area of the mine



Kennedy NZL Form Tie Systems

*These two form-tie designs
are also offered in
non-conductive materials.*

KEYHOLE FORM TIE

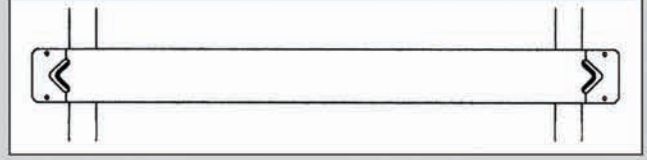


The keyhole form tie is a simple bracket with a keyhole that can receive a chain

Advantages

- Bracket doesn't "stick out" in the way
- The 2 form walls can be any distance apart
- Walls don't have to be parallel in either axis

THREE PIECE FORM TIE

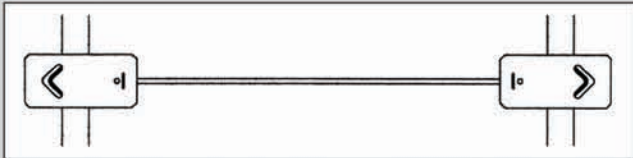


The three piece system consists of a half chevron that is inserted over the angle

Advantages

- The tie is able to be inserted after the angles are already in place
- A complete Kennedy stopping that is already erected can be used as one of the form elements
- The centerpiece is inserted through the joints and projects past the angles

HOOK/ROD FORM TIE

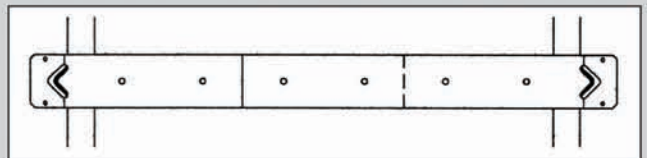


With the hook/rod form tie, the plates must be installed as the angles are applied

Advantages

- The two stopping walls are not attached at all until the structure is complete
- Nothing prevents working in the space between the walls to seal the space
- Rods are simply hooked into the plates and held in place with twist ties

FOUR PIECE FORM TIE



The four piece system is similar to the three piece but is adjustable in fixed increments

Advantages

- Tie is able to be inserted after the angles are already in place
- A complete Kennedy stopping that is already erected can be used as one of the form elements
- Inventory of different tie lengths is reduced

Virtually any width, height, and thickness NZL stopping can be constructed using standard Kennedy materials.



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PATENT INFORMATION

These products are covered by or for use under one or more United States or Foreign Patents, granted or pending:

772665, 6715961B2, 6682263B2, 7438506B2, 2004222798, 2487523, 7267505B2, 763802, 6846132B2, 2003200298, 2418176, 8444108, 2654815, 8162569, 2741272, 10/151203, 2822171, 89600419, 2014200775, 2843526, 10378355, 10287884, 10801323

The product(s) shown herein are intended for controlling ventilating air in an underground mine and/or maintaining escape routes. As such, they are critical in nature and must be installed and maintained properly, according to the manufacturer's guidelines, MSHA regulations, & your company ventilation plan. Failure to do so could result in injury and/or death. See www.kennedymetal.com for more information or contact the factory.

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Prices and specifications subject to change without notice.