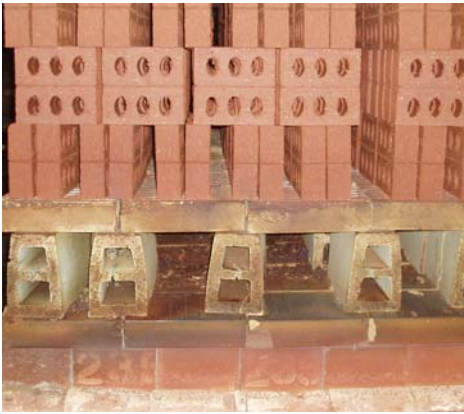


## Modern—Efficient Kiln Cars Using PACO Block

### Ibstock Brick—Chesterton Staffordshire England



Original PACO Kiln Car

In 2002, Ibstock Brick—Chesterton, decided to increase efficiency by reducing the kiln cycle time by 50%. This project would also include a new look at the kiln cars themselves. Bernard Picken, Ibstock Production Manager, proceeded to embark on a 2-year trial, consisting of nearly every kiln car block supplier, including European pressed block, precast block from a number of UK suppliers and PACO blocks with a new design.



Bernard Picken with New PACO Kiln Car Design

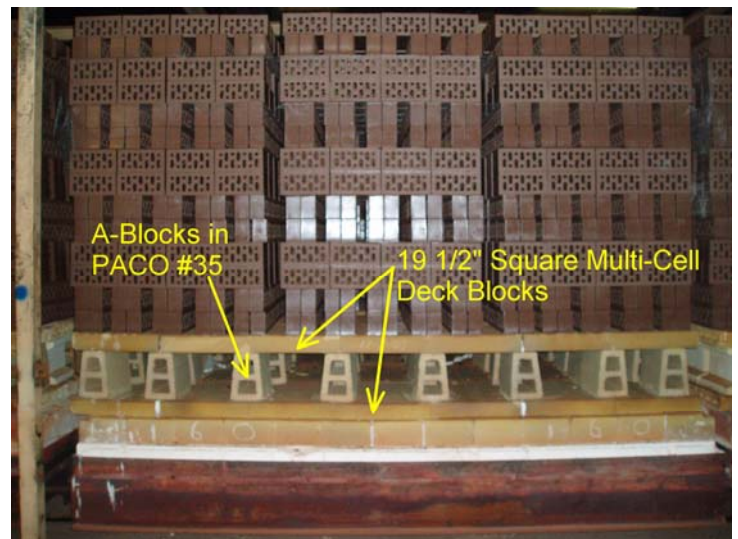
The reduced firing cycle created problems for most of the suppliers; even the original PACO A-blocks had trouble. Resco proposed the A-blocks in a more thermal shock resistant PACO #35 Mix and they are performing well after 4 months of service. The new design incorporated larger deck blocks which reduced both the number of supporting A-blocks and the number of joints in the working deck surface. The reduced weight eliminated 25 metric tons from a full kiln. Reducing the number of joints increased yield by 2%.

The massive precast deck blocks proved to be too dense, cracked or bowed during cycling and retained heat long after firing. The pressed cartop block performed well at first, but started to bend and were removed from service after 30 firings.

In the final analysis, the Extruded PACO blocks with the new #35 Mix and the new kiln car design, not only held up to the cycling, the cars are lighter and brick yields are up. Ibstock Chesterton is now planning to replace the entire fleet with the new PACO design.

### PACO Success Summary

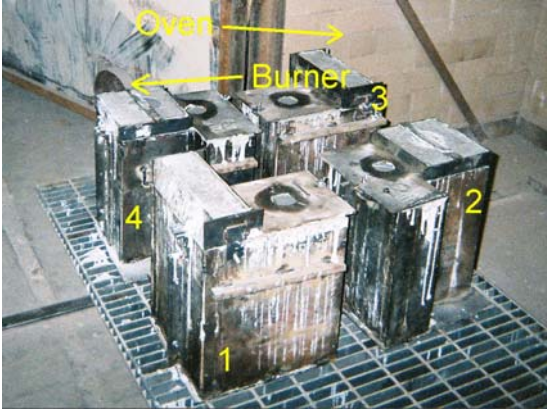
- 25 Metric ton refractory weight reduction
- Yields up by 2% with reduced joints
- Plans to incorporate PACO/Resco design on entire fleet!



Final PACO Design  
After 18 Months of Service



# Corner Block "Cast" In House Complement PACO Cartop Block — RescoCast 17 EMC Castable —



Steel Forms Ready for Drying



Solid Shapes are Possible as Well

Ever find yourself needing just a couple of piers, perimeters or corners? And need them NOW!? Well, you are not alone. Interstate Brick has found a solution to that very situation. Interstate cast their own corners using RescoCast 17 EMC Castable.

17 EMC is a thermal shock resistant castable with low thermal conductivity. It exhibits great strength and has a maximum service temperature of 2500°F. In other words, a close match to PACO Fired Block.

Resco's sales force can talk you through proper casting techniques if necessary. With typical castable lead times around 2 weeks (if we don't have any in stock), you could have a suitable solution in less than 3 weeks.



Note the use of cardboard mandrels



A Perfect Fit With Fired Cartops

Installed & Ready to Go

As with any quick alternative, there are a few sacrifices:

- 1) Mold Construction Required
- 2) Only Practical for Small Quantities
- 3) Heavier Shapes



Resco Products, Inc.  
Greensboro Operation  
3541 West Wendover Ave.  
P.O. Box 7247  
Greensboro, NC 27407  
Phone: 888-426-7176  
336-299-1441  
Fax: 336-854-5916  
www.rescoproducts.com



## Cole's Corner



Now that the International Brick Plant Operators Forum has concluded, I once again marvel at the open communication that dominates the Brick Industry. Brick manufacturers seem to go out of their way to share success stories.

This issue of BLOCK Talk shares some PACO Cartop stories that address current issues facing structural clay plants. If you missed Clemson this year, try to go next year! Enjoy!

PS—Feel free to weigh in:  
Keep the beard or lose it!?!

(cole.sadler@rescoproducts.com)