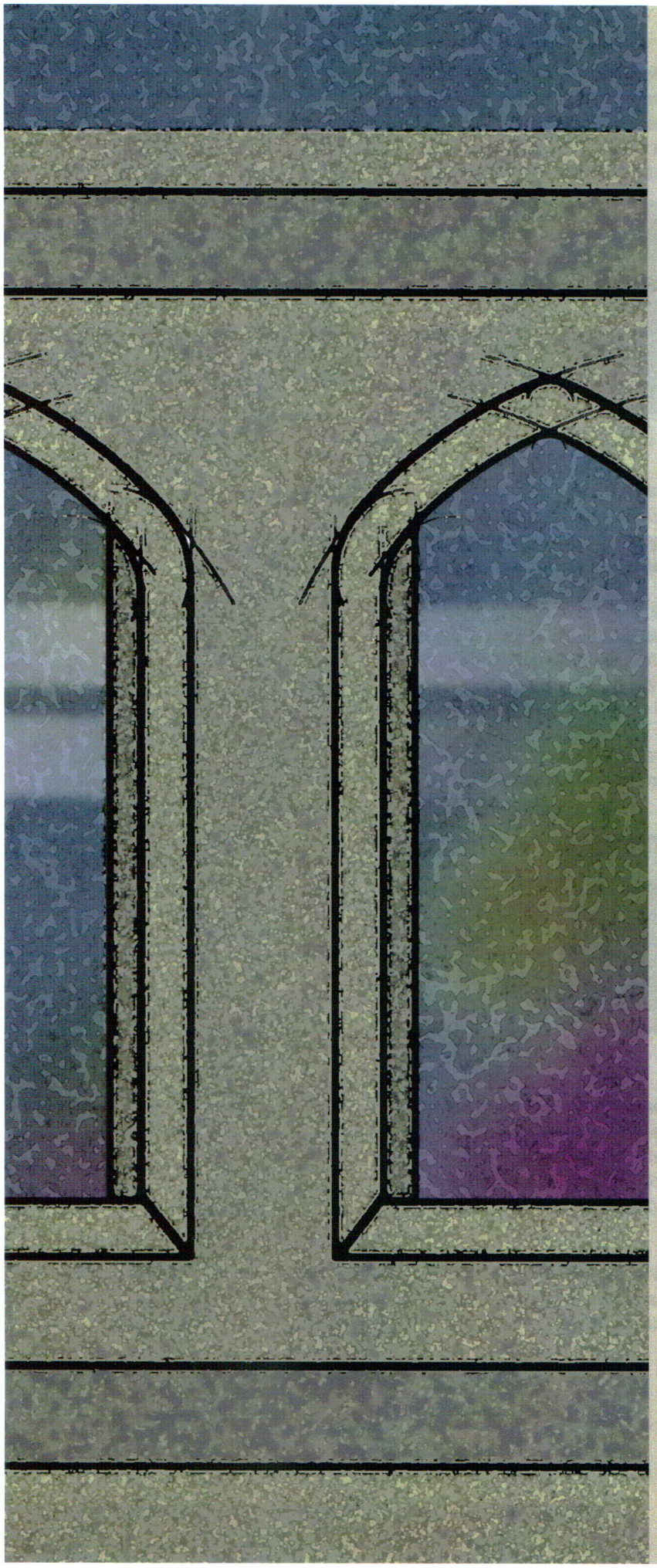


# One Pour... No More

## Therma Foam's Single Use Classic Bridge Railing Blockout

*Bridges in urban areas of most States can use a side railing design that enhances the esthetics of the bridge -- with more attractive classic designs. The railing design options were developed by the Texas D.O.T. and successfully crash-tested to achieve a 45 mph rating. The railing designs were approved for NCHRP Report #350 with a TL-2 rating, and are currently in use in most of the U.S. plus Canada.*

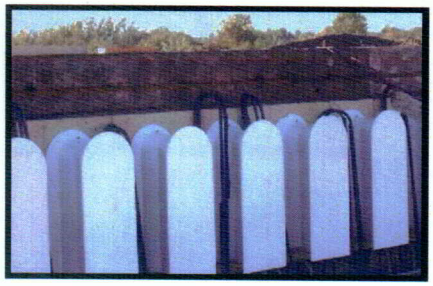
ThermaFoam, INC.

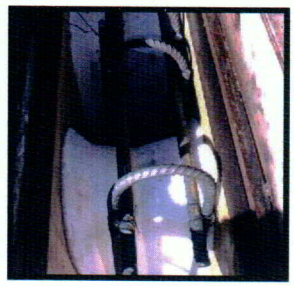
CUSTOM BUILDING COMPONENTS

***For more information go to www.thermafoam.com and click on Texas Classic Bridge Rail***

## BRIDGE RAILING CONSTRUCTION METHODS

*A bridge contractor assembles the bridge material components by nailing the disposable foam block-outs in place against the reusable forming board used to define the back surface of the bridge rail. This is to hold the foam in place during the installation of the rebar. After the rebar is placed, the other side of the forms, including another piece of forming board, is assembled against the front surface of the foam insert. At that point the completed assembly is joined with a Taper Tie, a bolt which is tightened to hold the foam in place.*



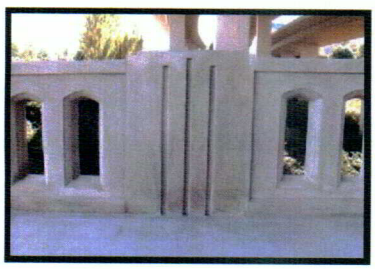


## CONCRETE FORM RELEASE AGENTS

*The intricate window design of the Texas Classic Bridge Rail, with chamfers on each side, makes the railing more esthetically pleasing, but makes the foam blockout removal more difficult. Release agents should be applied to the foam surfaces to ease the removal process after the bridge railing is poured. The Expanded Polystyrene we manufacture is sensitive to solvents, so solvent-based release agents are not recommended.*

*We have tried a sample of DUOGARD II, a water-emulsion form release agent, and found it safe to use with our blockouts. It is manufactured by W. R. Meadows, Inc. of Elgin, Illinois. DUOGARD II can be applied to the foam in a thin film by spraying, mopping, or brushing. W.R. Meadows has manufacturing facilities across the U.S. and Canada, with local distributors serving concrete industry contractors. For additional technical information, or to learn the name of a distributor covering your area, call 1-800-342-5976.*

*After pouring the bridge rail, the blockout can be removed by cutting, torching, or knocking it out. A slight white residue is likely to remain on the inside surface of the bridge window, and it can be removed quickly and easily by the use of a portable high pressure water washer.*



## PRICING

*Each of the three designs is also available in two heights, requiring either a 28" (tall) block-out or a 22" (short) block-out. A bid letting request will likely appear in the form of "lineal feet of bridge railing;" so to estimate the number of block-out parts that will be required, use an estimate of one piece of foam for approximately every 18" of bridge railing – i.e., a 120 lf. bridge railing (both sides) will use approximately 80 blockouts. Typically the railing designs will be designated as item C-411 (28" height) or item T-411 (22" height) on the bid sheets.*

*Disposable blockout pricing will vary by size, and is also subject to some variation due to petroleum prices. Blockouts will cost in the $20 (each) range and the freight will likely add another $3-$4. Fax us at 1-800-999-6729, or call our customer service desk at 1-800-333-3626 for a firm quotation.*

ThermaFoam, INC.

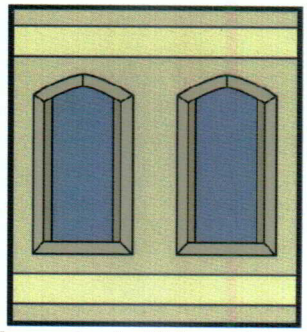
P. O. Box 161128 • 1240 North Highway 77 • Hillsboro, Texas 76645

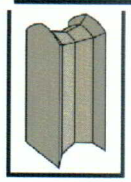
254-582-2730 • 866-582-2730 • 254-582-2811 - Fax

*For more information go to www.thermafoam.com and click on Texas Classic Bridge Rail*

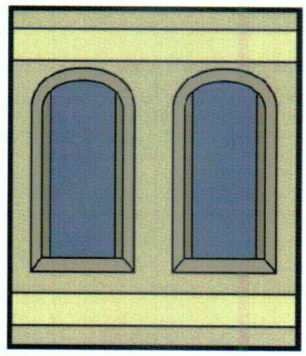
THERMA FOAM, INC.

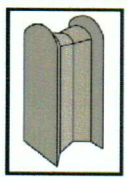
*There are three different designs in two different window opening heights, all very similar except for the top portions of the designs which can be either (A) segmented, (B) rounded or (C) pointed.*



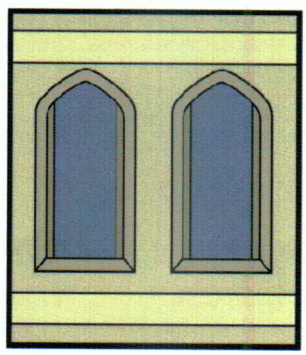


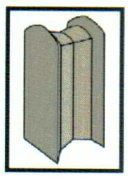
*(A) Segmented*





*(B) Rounded*





*(C) Pointed*