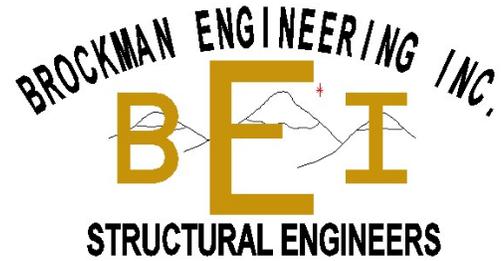


Brockman Engineering Inc.

**38 Lorne Avenue
Dartmouth, Nova Scotia B2Y 3E7
902-830-0290**



May 15, 2018

Lance and Amber Boyce
Mono Slab EZ Form
P.O. Box 371
Island Park, ID 83429

Re: Mono Slab EZ Form
Compliance with National
Building Code

Shallow foundations for construction projects are utilized to control installation costs for slab-on-grade construction. In colder climates, frost will penetrate under unprotected foundations and cause damage to the building structure and floor slab. It is critical that shallow foundations are properly protected from frost to eliminate potential frost heave damage to the building. The Mono Slab EZ Form has optimized the effectiveness and efficiencies of shallow footings as well as provided inventive solutions for frost protection. This letter will illustrate how Mono Slab meets, and even exceeds, National Building Code requirements for insulating frost-protected shallow foundations.

Mono Slab EZ forms are fabricated in four size forms: Mini, Standard, Arctic, and Commercial. The forms allow the installers to form footings, foundations, and the floor for a single concrete pour. The forms are constructed of expanded polystyrene that offers excellent insulation properties enabling the form to double as the required insulation for the frost-protected shallow foundation. The R-value of the EPS Mono Slab Form will not degrade over time like XPS and Polyiso. The R-value of EPS will stay consistent over time.

There are 4 different sizes of exterior forms:

- M-1212-S Mini 12"x 12"x 8'
- S-1616-S Standard Form 16"x 16"x 8'
- A-1830-S Arctic Form 18"x 30"x 8'
- C-2424-S Commercial Form 24"x 24"x 8'

There are 2 different interior forms:

- IF-1012-S Interior Form 10"x 12"x 8' (used with both the Standard form or the Arctic Form)
- IF-1618-S Interior Form 16"x 18"x 8' (used with Commercial Form)

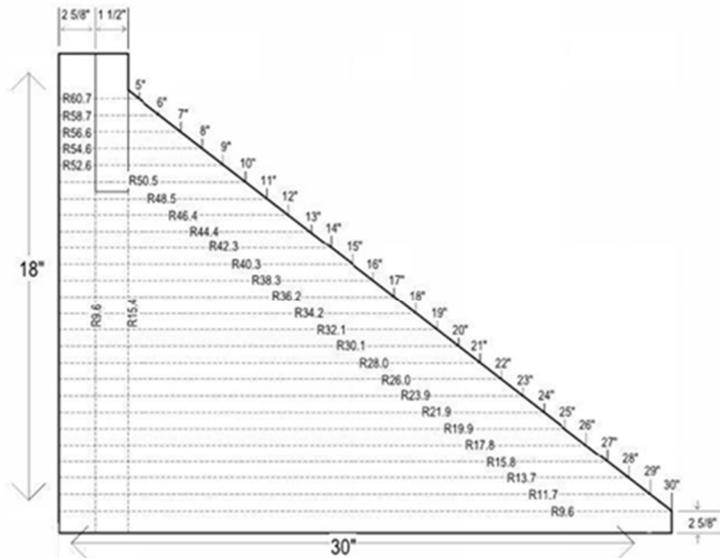


Figure 1: Arctic Mono Slab Form R-value Profile

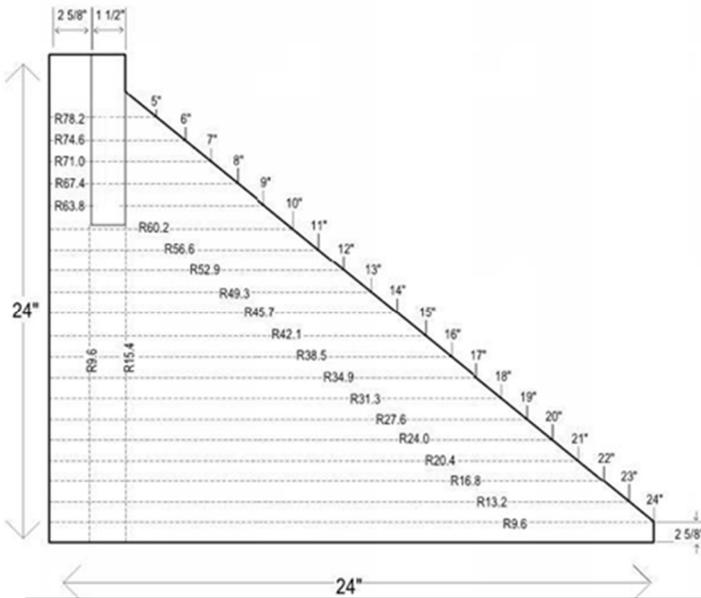


Figure 2: Commercial Mono Slab Form R-value Profile

The R-value of the vertical or horizontal insulation does vary with the height or the width of the form due to the triangular shape. The taller or wider the form, the higher the R-value. The overall R-value of the form far exceeds code required R-values. A conservative R-value of 3.65 per inch is assumed based on the Mono Slab ICC-ES Evaluation Report ESR-4106. Figures 1 and 2 illustrate the R-value profile of the Arctic and Commercial forms. The maximum vertical insulation R-values of the Arctic and Commercial Mono Slab Forms are 109.5 and 87.6 respectively. The maximum horizontal insulation R-values of the Arctic and Commercial Mono Slabs are 65.7 and 87.6 respectively.

The unique triangular shape of the Mono Slab Forms is designed specifically to shed water away from the foundation and building.

The Mono Slab EZ Form polystyrene material meets the requirements of the Strands Council of Canada CAN/ULC-S701.1:2017 & ASTM C578 – 18.

The Mono Slab EZ Form system can be used in the construction for shallow foundations covered by the Canadian Foundation Engineering Manual 4th Edition and the National Building Code 2012.

Conclusion:

The Mono Slab EZ Form is structurally adequate to be used in the construction of frost-protected shallow concrete footings and foundations and meets the National Building Code requirements. The Mono Slab EZ Form is to be installed as per manufacturer's specifications & the foundation is to be designed by a professional engineer.

Sincerely,



Steve Brockman, P. Eng.