



Features and Benefits

MANUFACTURED by MK-5 Floating Foundation Manufacturing in Midland, Ontario, the MK series flat slab frost protected Floating Foundations using high strength steel resolves issues with: Environmentally Sensitive Lands, Extreme Frost, Variable Soil Conditions, High Static Water, Remote Site Locations, tight Budget Installations, and can be installed virtually anywhere, by the end user.

TECHNICALLY the Patented MK-5 Manufacturing Floating Floor Foundation of our designed is heavily reinforced with high strength threaded reinforcing bars, high yield connector bars and compression nuts pinning the dimensionally stable form. Confirmed through structural analysis, the MK floating slab reinforced with high strength bars is subject to flexural loads, under these circumstances, the slab strength is governed by the overwhelming yield strength of the reinforcing bar and its position in the slab, **eliminating the need for thickened edge slabs.**

FROST MK series Frost protected Floating Foundations use rigid insulation board in place of soil depth to eliminate frost heaving and control heat loss. Two inches of polystyrene(SM) rigid insulation serves the same function as Four Feet of soil, therefore, the horizontal rigid insulation in ‘wings’ 2 to 4 ft. around the perimeter of the slab, eliminate frost below that level. The frost can’t go out over the perimeter barrier and back under the slab. Simply stated, it moves the line of the frost penetration away from the slab.

DRAINAGE MK series Floating Foundations either floating on the ground, or at a slightly higher elevation on a compact granular base, suffer, far less moisture related problems and soil pressures than conventional foundations. Important benefits include avoidance of problems related to hydrostatic water pressure problems, especially in conjunction with a lack of ‘virgin’ ground. Depending on the depth of organic soils the MK series of Flat Slab floating foundations would require as little as 6”-8” of excavation. That’s Environmentally Sensitive!

BENEFITS MK Series Floating Floor Foundation: The MK series Floating Floor Foundations are poured all-at-once or monolithically, that means just one concrete delivery and one drying period. Eliminating the thickened edge slab reduces the amount of concrete required therefore remote job sites or high priced concrete zones greatly benefit in the reduced amount of concrete required. Short season areas benefit from the Do-It-Yourself aspect of this product. A 40’ x 100’ MK series Prefabricated form, can be assembled, leveled and squared, ready for pour in less than one day.

BOTTOM LINE it’s not the thickness of the concrete that governs the strength of our Floating Foundations, It’s “THE STRENGTH OF THE STEEL AND ITS POSITION IN THE SLAB.”