



Beaver Plastics

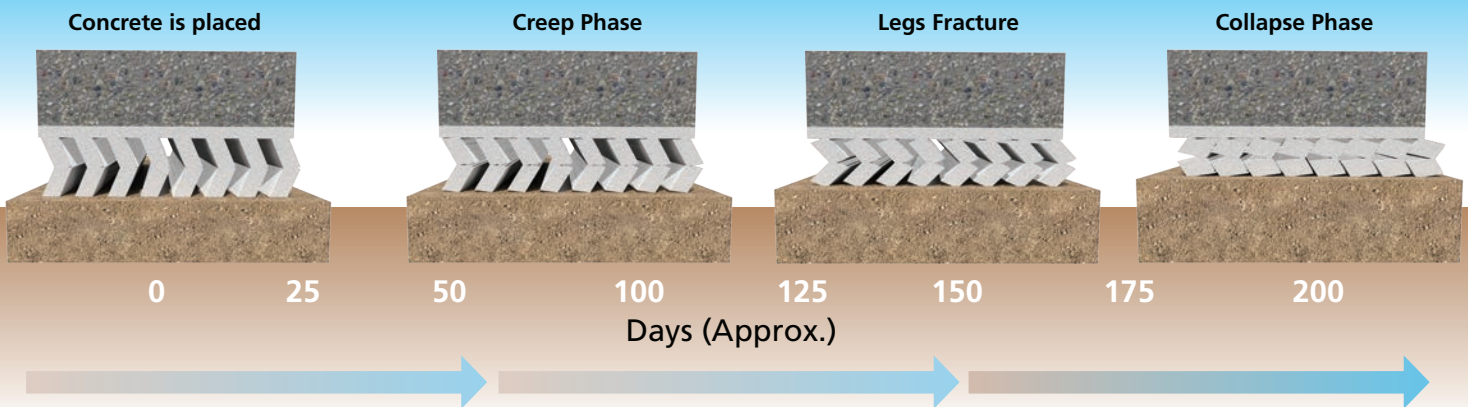
DYNAVOID®

Dynamic Inclusion for
Structural Concrete Slabs

PRODUCT DESCRIPTION

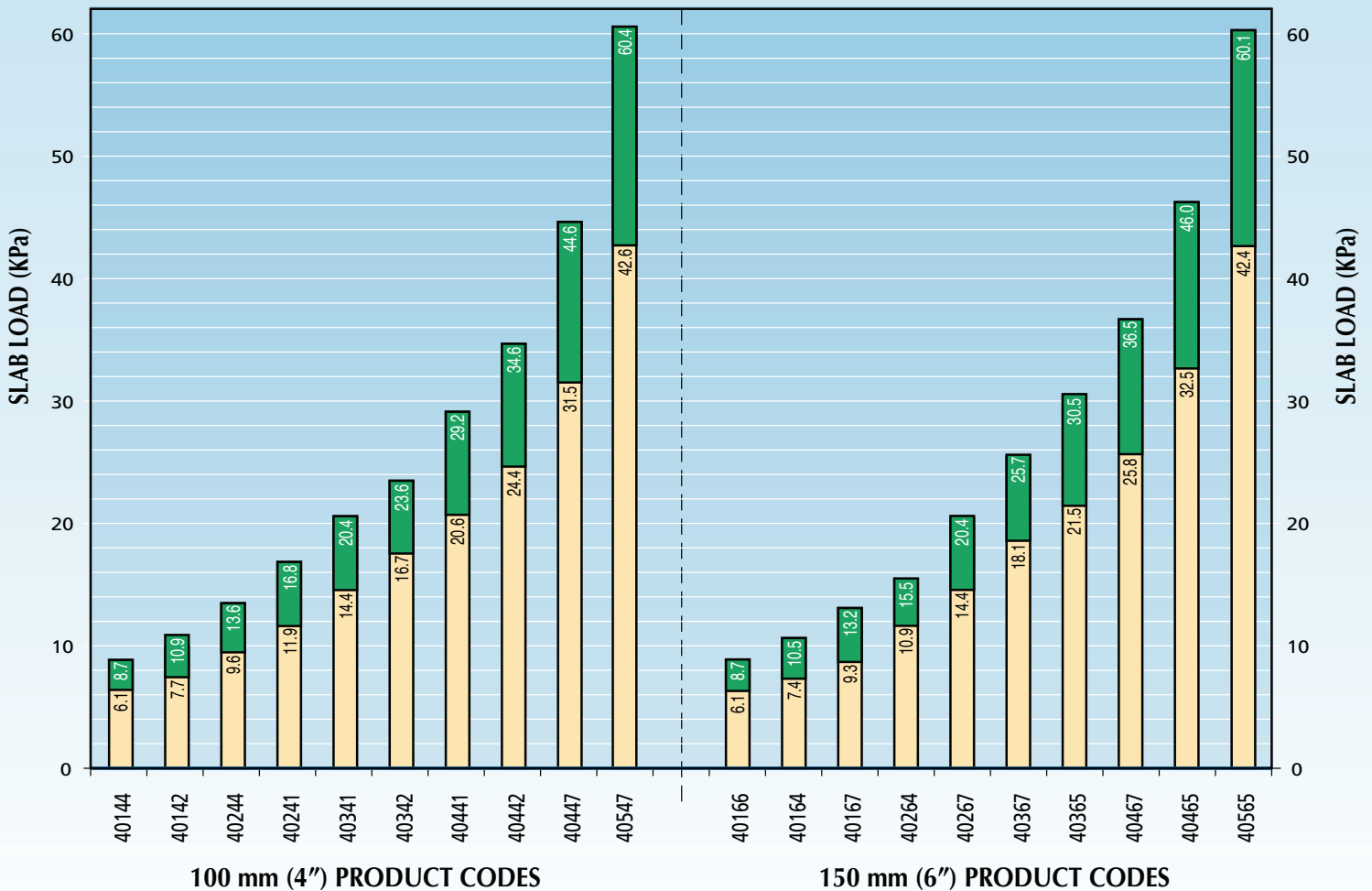
DYNAVOID™ was developed by Beaver Plastics to meet the requirements for a moisture tolerant void form material to be used under structural concrete. It has much different properties than typical void form products, as it is a Dynamic Inclusion, mechanically responsive to expanding soils. Beaver Plastic's has earned both U.S. and Canadian patents for the product.

DYNAVOID is designed to bear the weight of a very heavy structural slab until it has developed enough strength to become self-supporting. Long-term sustained stress from an expanding sub-grade then causes DYNAVOID to collapse due to thermoplastic creep. As the soils expand, the geometry of DYNAVOID converts this vertical strain into a horizontal deflection of supporting legs. Deflection continues until 'over-center' mechanical failure, with the collapsed leg segments nested together. A limited amount of simple compression will then continue to absorb sub-grade expansion as with ordinary void form foam materials.



DYNAVOID is produced in different performance ranges and in thickness' of 100 and 150 mm (4" or 6"), in 1220 by 1220-mm (4' x 4') panels. The correct version must be selected to ensure the slab will be supported as well as creep and collapse should sub-grade expansion occur.

DYNAVOID SELECTION CHART



UNDERSTANDING THE PERFORMANCE OF EPS IN GEOTECHNICAL APPLICATIONS

DYNAVOID is available in both 100 mm (4") and 150 mm (6") thicknesses in order to meet the protective void requirements for virtually all structural slabs. The green portion of each column indicates the recommended performance range for each DYNAVOID type that will safely support a structural slab, while permitting void form creep and collapse to occur as a result of sustained sub-grade swell.

Product selection is based on simple slab weight, producing a pressure of 23.6 kPa per metre thickness. EG: a 750 mm slab will produce $.75 \times 23.6 = 17.7$ kPa pressure. For slab thickness measured in inches, multiply inches by 0.6 to obtain slab load in kPa.

Note: The performance range for each type can be adjusted by adding downward restraint provided by foundations and/or superstructure. Contact Beaver Plastic's technical service for information.

STANDARD SIZES/PACKAGING

| PRODUCT SIZE | PCS/BUNDLE | AREA/BDLE | BUNDLE SIZE |
|------------------|------------|-------------|------------------|
| 4" X 4' X 4' | 10 | 160 SQ. FT. | 24" X 4' X 4' |
| 100x1220x1220 mm | 10 | 14.8 SQ. M. | 610x1220x1220 mm |
| 6" X 4' X 4' | 6 | 96 SQ. FT. | 24" X 4' X 4' |
| 150x1220x1220 mm | 6 | 8.9 SQ. M. | 610x1220x1220 mm |



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PRINTED IN CANADA