

**GRANITE  
CURBING**

TECHNICAL  
GUIDE



**POLYCOR**

## GRANITE CURBING | TECHNICAL GUIDE

Polycor granite curbs have split front and rear faces. The tops and undersides are sawn, and the extremities are sawn with a split clearance at the bottom. This ensures fast, economical and precise installation. The split sides provide maximum adhesion to the concrete setting in the back, and superior resistance to wear and tear in the front due to traffic and snow removal.

### FABRICATION TOLERANCES

Length: variable – minimum 1 meter

Height:  $\pm 15$  mm

Thickness:  $\pm 10$  mm

Projection of split surface: 12%, -6% of height

Joint squareness:  $90^\circ$ ,  $\pm 1.5^\circ$

### AESTHETIC FINISH

The curb's split sides preserve the natural look of the granite. The square sawn top, bottom and ends allow for extremely accurate placement and joints that don't require mortar.

### SIMPLE INSTALLATION

Polycor granite curbs are designed to be easy to install. Mortar is not required between sections. In addition, the top and underside are sawn for rapid levelling and a smooth finish with the adjacent sidewalk.

### PREPARATION

Before beginning installation, make sure that the foundation is well drained, compacted and conforms to the levels and layouts shown on the drawings.

1. Begin by laying down a 6" (150 mm) cushion of 0–3/4" (0–20 mm) crushed stone and compact it to 95% density.
2. Level the cushion so that the height of both the curbstone and spacers meets the required specifications.



Figure 1. The crushed stone cushion is mechanically compacted to a density of 95%.

## CURBSTONE INSTALLATION

1. Each curbstone is to be laid on two concrete bricks or two granite spacers. The spacers will facilitate levelling of the curbstone and leave an empty space under the curbstone that will later be filled with concrete.
2. Curbstones must not deviate by more than 1/4" (6 mm) from the alignment and profiles shown on the drawings.
3. Each curb section should be installed with the extremities as close together as possible. The use of mortar between sections is neither necessary nor recommended, as mortar will deteriorate over the years.
4. For a highly resistant installation, we recommend the use of an anchor system with embedded anchor rods.



Figure 2. Concrete bricks are used to position the granite curb.

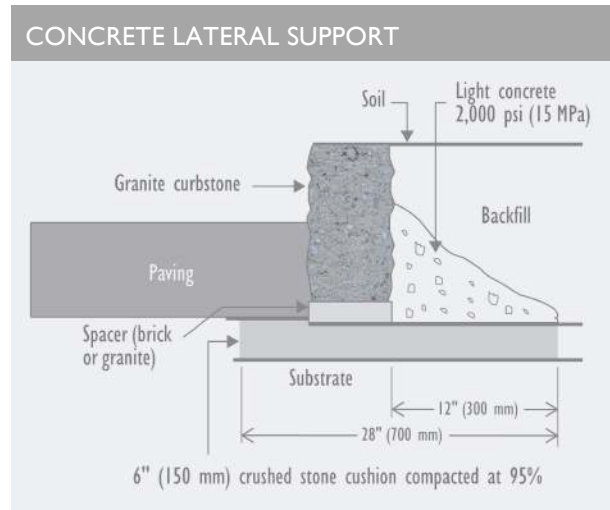


Figure 3. The sawn extremities allow for a precise joint between curbs and eliminate the need for mortar.

## CONCRETE CONSOLIDATION

After installing the curbstones, pour a bed of light concrete (15 MPa) at a minimum rate of 3 cubic yards per 100 linear feet (7 cubic meters per 100 linear meters). If necessary, install proper formwork to hold the concrete.

If curbs are to be installed without any retaining lateral support (sidewalk or earth filling), additional light concrete must be poured at the rear of the curb. The objective is to form a solid lateral support with a slope equal to the concrete resting angle.



**PROTECTION**

Protect the curbstones and let the concrete set at least 48 hours before beginning any contiguous paving or concrete work.



Curbstones with sidewalk anchor system.



Light concrete (15 MPa) is poured in place to consolidate the curbstones.

**ANCHOR SYSTEM (ON REQUEST)**

In most situations, when installation specifications are respected, the curbstone will remain in place and there will be no detachment between the curb and the adjoining sidewalk. However, if heavy traffic is likely to drive over the curbstone (curves at the end of sidewalks are often subject to the traffic of snow clearing vehicles, trucks and buses), the following anchors are recommended.

On request, curbstones can be factory drilled every 39" (1 m) to receive anchor rods. Holes are drilled at a 45° angle, 4" (100 mm) from the top of the curbstone, with a minimum of two holes per curb.

**ANCHOR ROD DIMENSIONS**

5/8" (15 mm) rod

For permanent adhesion, we recommend fixing the anchor rods with a two-part structural epoxy grout conforming to ASTM C881. The epoxy resin must be free of solvents and insensitive to humidity.

**EXPANSION JOINTS**

When there is an expansion joint in a contiguous sidewalk, we recommend cutting the curbstone at the exact location of the expansion joint.

*Note: Epoxy grout and anchor rods are not supplied by Polycor.*

