

# GENERAL RECOMMENDATIONS FOR DYNALON™ SLIDE BEARINGS

## LOWER ELEMENT

### MASTICORD™:

Minimum thickness

- |   |   |              |
|---|---|--------------|
| • | Non-beam members spanning less than 60 feet | 3/8"         |
| • | Non-beam members spanning more than 60 feet | 3/8" to 1/2" |
| • | Beams spanning less than 40 feet            | 1/2"         |
| • | Beams spanning more than 40 feet            | 5/8" to 3/4" |

### MASTICORD™ size

- Design using typical **MASTICORD™** compression equations, limit the allowable compressive load in kips without rotation to  $2.5bw$ .

### Teflon®:

- |   |  |                            |
|---|--|----------------------------|
| • | 25% glass filled, reinforced TFE, 3/32-inch minimum. |                            |
| • | Tensile Strength                                     | ASTM D 1457      2,000 psi |
| • | Tensile Elongation                                   | ASTM D 1457      150%      |
| • | Hardness, Durometer, Shore D                         | ASTM D 2240      57        |

### Epoxy:

- |   |                                |                           |
|---|--------------------------------|---------------------------|
| • | Tensile Strength               | ASTM C 538      6,600 psi |
| • | Compressive (Room Temperature) | ASTM D 695      3,200 psi |

## UPPER ELEMENT

### Slide Plate:

- Stainless steel SS-304, 10 gage minimum with 1 side No. 2B Finish, also referred to as mirror finish.
- Dimension of plate should be larger than lower element in all directions.
  - Sides *perpendicular* to sliding direction should be 1/2 inch larger than lower element on each side, Figure 19.

$$b_t = b + 1$$

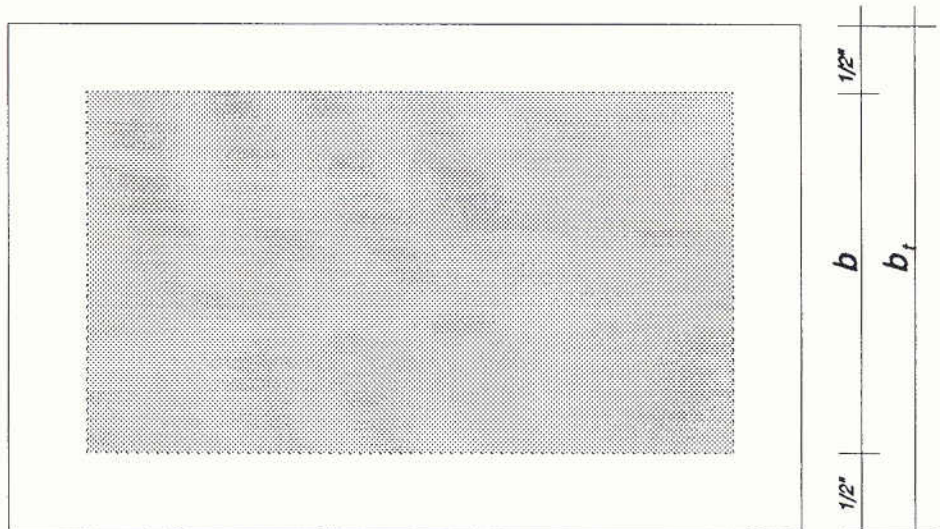
- Sides *parallel* to sliding direction should be the greater of 1 inch larger than lower element on each side OR the amount of expected movement plus 1/2 inch larger than lower element on each side, Figure 19.

$$w_t = \text{maximum of } w + 2 \text{ or } w + d_h + 1$$

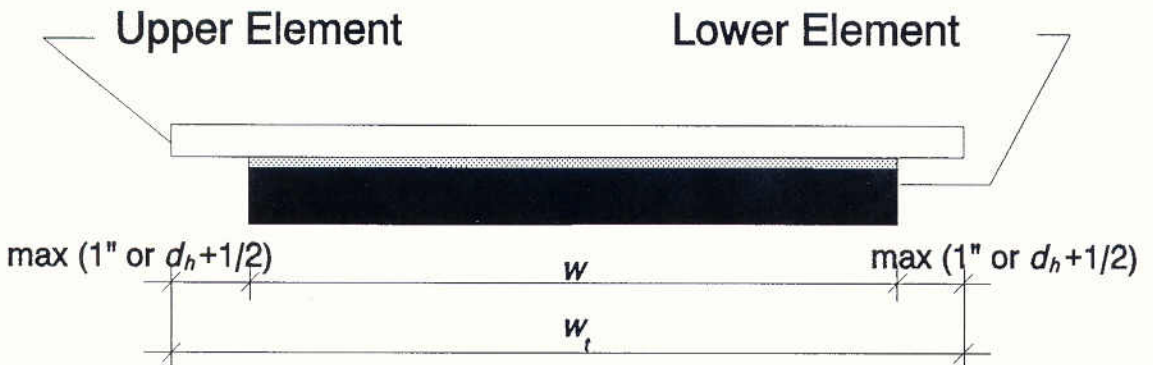
- Tack weld stainless plate of upper bearing element to imbedded plate of top structural element.

# Dynalon™ Dimensions

## Plan View



## Elevation View



Note: All sides of upper element must overhang lower element.

Figure 19 - DYNALON™ Dimensions