

STRUCTURAL SLIDE PLATES

ABG GUIDED SLIDE BEARING ASSEMBLY

(Mechanically Locked)

AMSCOT Structural Products Corporation is pleased to announce our "ABG" guided slide bearing assembly. This unique bearing is based on our time proven AMMAX "mechanically locked" slide plate. The "ABG" guided slide bearing incorporates the use of the AMMAX lower element paired with an upper element that combines a T-304 2b finish stainless steel surface and external wide bars. The guide bars will be designed to net the customers required horizontal shear requirements. This will allow the customer the ability to field weld the entire bearing assembly as a unit and walk away being assured that the "ABG" guide assembly will handle both vertical load and horizontal shear requirements. This bearing assembly will reduce the additional cost of field welding and cost of fabricating complicated guide bars. The "ABG" guided bearing assembly will handle all of your needs. Please consult our engineering department for all sizing questions or refer to the design example below.

Notes:

Design Criteria is as follows;

Friction Factor .03%

Operating Temperature - 500 deg. f. continuous with excursion temperatures to 700 deg. f. for 30 minutes.

Design Load - design loading of AMMAX slide bearing assemblies is constant, 6000 psi @ 500 deg. f. design load used in industry as standard is 5000 psi.

Information required to size "ABG" bearing with 1-1/2" elevation.

Example:

Determine size of lower bearing element:
lower bearing is sized for maximum load required.
125kip load @ 5000 psi = 25 sq. inches = 5" width x 5" length = size of bottom bearing.

Upper bearing element is sized for maximum allowable movement in one direction.

Example:

Using 1" of movement upper bearing element would be 7" wide x 6" long.

Ordering Information:

Upper bearing would be AB-ABG 11-7x6, lower bearing would be AB-AM 75cs-5x5.

Upper Element:

"AB" = AMSCOT bearing

"ABG11" = AMSCOT guided bearing

"7" = width of top bearing (no movement)

"6" = length of upper bearing to allow 1" of movement in one direction.

Lower Element:

"AB" = amscot bearing

"AM" = ammax slide bearing material

"75" = steel thickness

"CS" = carbon steel backing material

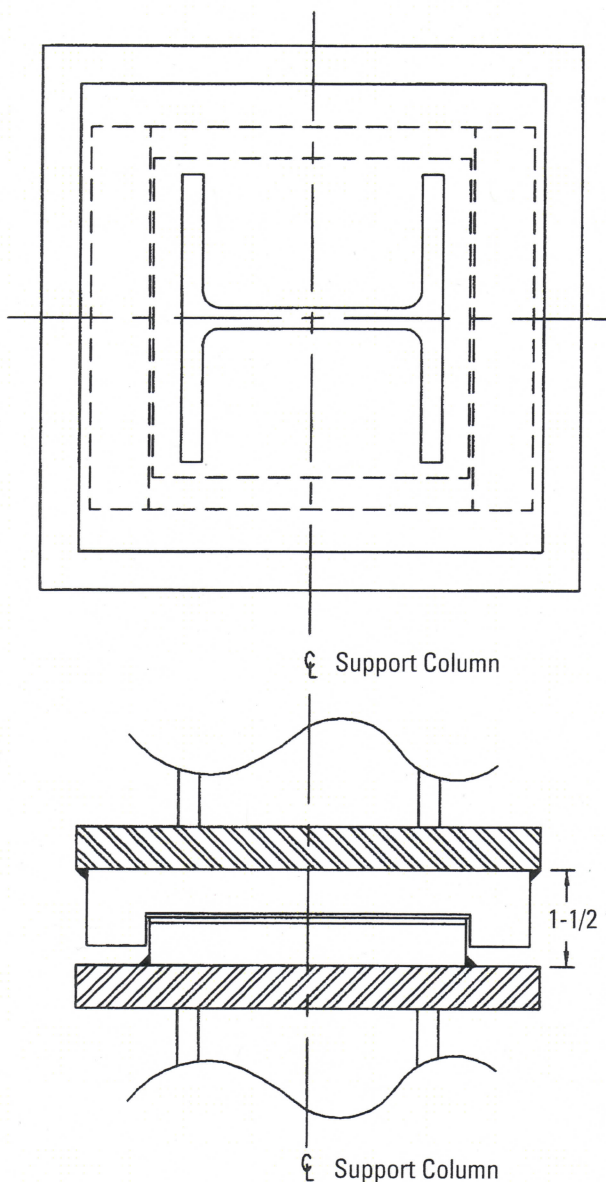
Note: if movement is to be plus & minus, please increase size of lower element accordingly.

AMSCOT

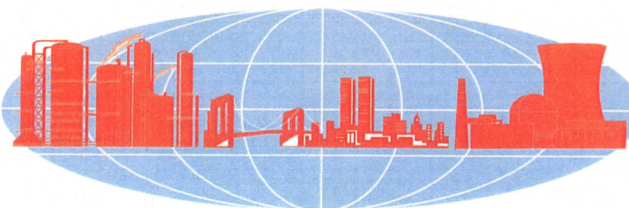
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