



Seismic and Wind Load Restraint Systems

A White Paper from Assmann

Assmann Corporation of America offers two types of restraint systems for our polyethylene chemical storage tanks. This letter is to help clarify what these systems do and why we have chosen to offer them.

The first type of restraint system we offer is a **passive restraint**. This restraint system carries no type of wind load or seismic rating. The passive restraint consists of a steel band that straps around the base of the tank and has multiple legs that get anchored into the concrete. This system, simply put, is to keep the base of the tank from shifting.

Often it is used for mixing vessels or when tanks are mounted onto portable skid systems.

The second type of restraint system we offer is our **wind load or seismic restraint system**. The wind load, or seismic restraint system, consists of multiple anchor points that are equally spaced around the base of the tank.

Cable is then attached to a top anchoring point to restrict the tanks overturning or movement during high winds or seismic activity.

The wind load or seismic restraint system can be certified by a professional engineer anywhere within continental United States.

Since IBC codes are continuously updated. Engineering firms can no longer perform across the board calculations on any single product. Assmann Corporation offers site specific calculations to the current building codes. Site specific calculations can be performed after all the necessary data is gathered and submitted to Assmann.

We hope this information is helpful in your restraint system choice. Please consult the factory if further information is needed.

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