

GENERAL CANTILEVER RACKING INSTALLATION AND MAINTENANCE GUIDELINES

PROPER INSTALLATION OF RACKING

Note: If a layout drawing is provided by Space Aid Mfg., notes on the drawing take precedence over these notes.

1. All racking systems are to be installed level and plumb. The maximum tolerance from the vertical is 1/2" per 10' of height. Columns must be shimmed with steel shims where required to provide firm contact between the base and slab. (Shims are not supplied with the system and must be ordered if required.)
2. All 2TC, 3TC, 4TC columns are to be anchored to the finished concrete floor with a minimum of two 5/8" x 4-3/4" Hilti Kwik-bolt 3 (or equivalent capacity) wedge anchors (1 front/1rear) - 4" minimum embedment.
3. All cantilever arms must be secured properly using (1) 3/4" x 1" x 'length' steel cantilever arm pin secured in a taper lock position. Rubber retainers are optional (available extra).
4. Columns should be connected using a vertical brace panel suitable for each column series, each brace panel is to be bolted using (4) 1/2" x 1-1/2" Grade 5 standard hex bolt set. All bolts shall be brought to a 'snug-tight' condition ensuring all plies are in firm contact. 'snug-tight' condition is attained with a few impacts of an impact wrench or the full effort of a person using an ordinary spud wrench.
5. All accessories including but not limited to pipe and socket, shelf systems and roof systems should be installed using information as provided on Space Aid supplied drawings.

PLAQUES

The Owner is required per regulations to display appropriate signage (plaques or labels) indicating maximum permissible design loads in a prominent viewing position.

ALTERATIONS

A column's allowable load capacity is based on arm locations and loading as shown. Reconfiguration or rearrangement of the system is not allowed without prior approval from Space Aid Manufacturing.

CUSTOM INSTALLATIONS

Space Aid Manufacturing employs a full staff of trained and certified installation team members with experience in a wide range of projects for all types of material storage system installations of any scale.

MAINTENANCE - OWNER'S RESPONSIBILITY

The owner shall maintain the structural integrity of the installed rack system by assuring proper operational, housekeeping and maintenance procedures including, but not limited to, the following

- a) Prohibit any overloading of arm and columns and of the overall rack system.
- b) Regularly inspect for damage. If damage is found, immediately unload the affected area and replace or repair any damaged columns, arms or other structural components.
- c) Require that all product be stored in a safe manner and in a stable position.
- d) Prohibit double stacking unless the rack system is specifically designed for such loading.
- e) Do not place undersized loads directly on arms.
- f) All material handling equipment operators should be trained in accordance with CSA B355.
- g) Material handling practices should be designed to minimize impact loads on the cantilever rack system.

PREVENTATIVE MAINTENANCE PROGRAM

Space Aid Manufacturing is proud to introduce the launch of our new "Preventative Maintenance Program" involving quarterly, semi-annual or annual Damage Inspections performed by a qualified Space Aid Mfg technical representative.

Damage Inspections, including their subsequent reports, provide detailed information of the condition of any existing cantilever racking or material storage system. These reports can be used to identify areas that require repairs or replacement of damaged components.

The report issued by Space Aid Mfg includes a damage inspection checklist along with a reference layout, a summary report, images to support the checklist, a disclaimer and a quotation for any replacement components or required labour. These inspections are completed by qualified technical staff and are an excellent tool in work place accident prevention.

SERVICE AND REPAIR

Space Aid Manufacturing is now proud to offer on-site service and repair to all of its customers. Our recently created Service Department can now provide ongoing service for any brand or configuration of material storage system. The service division is available 7 days a week and can react quickly to address service and repair requirements.