



Capital Safety • 3833 SALA Way • Red Wing, MN 55066-5005 • Ph: 651-388-8282 • Fax: 651-388-5065

Technical Bulletin

MI SC006, Rev. B

Subject: Anchorage Strength

The anchorage strength required is dependent on the application. Following are anchorage strength requirements for specific applications:

A. Fall Arrest: The structure to which the personal fall arrest system is attached must sustain static loads applied in the directions permitted by the fall arrest system of at least: 5,000 lbs. for non-certified anchorages, or two times the maximum arresting force for certified anchorages (designed by qualified person). See ANSI Z359.2 – 2007. When more than one personal fall arrest system is attached to an anchorage, the strengths stated above must be multiplied by the number of personal fall arrest systems attached to the anchorage.

OSHA 1926.500 and 1910.66: Anchorages used for attachment of a personal fall arrest system shall be independent of any anchorage being used to support or suspend platforms, and must support at least 5,000 lbs. per user attached; or be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, and is supervised by a qualified person.

B. Restraint/ Travel Restraint: The structure to which the restraint system is attached must sustain static loads applied in the directions permitted by the restraint system of at least 1,000 lbs. for non-certified anchorages, or two times the foreseeable force for certified anchorages. See ANSI Z359.2-2007 When more than one restraint system is attached to an anchorage, the strengths stated above must be multiplied by the number of restraint systems attached to the anchorage.

C. Positioning/Work Positioning: The structure to which the work positioning system is attached must sustain static loads applied in the directions permitted by the work positioning system of at least 3,000 lbs., or twice the potential impact load, whichever is greater. See OSHA 1926.502.

ANSI Z359.2-2007: 3,000 lbs. for non-certified anchorages or two times the foreseeable force for certified anchorages.

When more than one work positioning system is attached to an anchorage, the strengths stated above must be multiplied by the number of work positioning systems attached to the anchorage.

D. Personnel Riding: The structure to which the personnel riding system is attached must sustain static loads applied in the directions permitted by the personnel riding system of at least 2,500 lbs. When more than one personnel riding system is attached to an anchorage,

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the strengths stated above must be multiplied by the number of personnel riding systems attached to the anchorage. Reference CSG.

E. Rescue: The structure to which the rescue system is attached must sustain static loads applied in the directions permitted by the rescue system of at least 3,000 lbs. for non-certified anchorages, or five times the applied load for certified anchorages. When more than one rescue system is attached to an anchorage, the strengths stated above must be multiplied by the number of rescue systems attached to the anchorage.