

I-BEAM TRACK SPECIFICATION

1.01 GENERAL

A. Standards:

1. Materials shall conform to the following ASTM and ANSI standard specifications:
 - a. A-36 - Specification for structural steel
 - b. A-120 - Specification for black and hot-dipped zinc-coated (galvanized) steel pipe for ordinary use
 - c. Maximum fleet angle - 1-1/2 degrees
 - d. Steel - 1/5 of yield
 - e. Bearings - Two times required load at full speed for 2000 hours
 - f. Bolts - Minimum Grade 5 zinc plated

B. Sheaves:

1. Sheaves shall be of the following materials, as specified:
 - a. Nylatron or Polyamide Nylon (PA6-G)
2. Groove depths shall be sufficient to encompass fully the rope diameter. Grooves shall have sloped sides and conform to rope and cable manufacturers' standards for groove shape and tolerance.
3. Sheaves shall be supported by bearings and a steel shaft. Proper adjustment of the bearing shall be accomplished by means of a fine thread, self-locking nut on the opposite end of the shaft.

C. Fabrication:

1. The mechanical fabrication and workmanship shall incorporate best practices for good fit and finish. There shall be no burrs or sharp edges to cause a hazard, nor shall there be any sharp corners accessible to personnel.
2. All equipment shall be built and installed to facilitate future maintenance and replacement.

D. Finishes:

1. Curtain track finished shall be the manufacturer's standard finish of black color except as noted.
2. All other hardware shall be in manufacturer's standard mill finishes.

- E. Recommended Working Load:** This specification calls for minimum recommended working loads for many hardware items. The manufacturer's recommended working load is the maximum load which the manufacturer recommends be applied to properly installed equipment.

1.02 TRACKS

A. Black I-Beam Curtain Track:

1. Track shall be 11 gauge extruded aluminum I-beam construction consisting of a center rib and top, black anodized finish.
2. Curtain Master carriers (IWI29) shall be installed to the leading edge of each curtain. Carrier shall be of black zinc steel construction to include four nylon-tired ball bearing wheels rolling on two separate parallel treads. Carriers shall be equipped with two nylon glides to prevent contact between the carrier body and the track flange. Each carrier shall be equipped with a 6 inches of black swivel trim chain to accommodate a curtain attachment. All carriers shall be stamped or engraved with manufacturer's name.
3. Curtain single carriers (IWI28) shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball bearing wheels rolling on two separate parallel treads. Carriers shall be equipped with two nylon glides to prevent contact between the carrier body and the track flange. Each carrier shall be equipped with a 6 inches of black swivel trim chain to accommodate a curtain attachment. All carriers shall be stamped or engraved with manufacturer's name.
4. For corded operation Live (IWI03), dead-end(IWI04), and floor pulleys(IWI08) shall be equipped with 4" diameter nylon sheaves with shielded ball bearings and black zinc steel housings. Housing shall have manufacturer's name stamped or engraved into the units housing.
5. End stops (IWI06) shall be a two-piece black zinc steel clamp that secures to the bottom flange of the track.
6. For track systems designed with radius all curves shall be factory formed. When designs required corded operation all spindles and idlers shall be factory engineered and constructed into the designed with bearings for operating line management around the radius.
7. For ceiling mount installation ceiling hangers (IWI11) shall be a black zinc construction with mounting holes to attach to structure and two angle bent clip to secure the top flange of the track to the clamp.
8. Suspension track system shall require a suspension track clamp (IWI06) that shall be a two-piece black zinc steel clamp that secures to the top flange of the track.
9. Suspended curved track systems should be continuously supported by a 1-1/2" schedule 40 steel pipe by suspension clamps. Connection to pipe shall be a Pipe Clamp (P309).
10. Stretch-resistant operating cord shall be 1/4" diameter.
11. Standard track suspension shall be rigidly supported from ceiling clamps or hanging clamps on four and a half foot spacing.
12. IWEISS I-Beam IWI track assembly, _____ ft. long.