



TECHNICAL INFORMATION

In the interest of continuing product improvement, we reserve the right to change models, specifications, and/or features without prejudice.

PROJECT: _____
 LOCATION: _____
 ARCHITECT: _____
 ENGINEER: _____
 CONTRACTOR: _____
 DATE: _____ SALES ENGINEER: _____

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TECHNORAIL & ALU150/250 SPECIFICATION

The equipment specified herein shall be a standard TechnoRail or ALU150/250 product of Monoxivent/NORFI.

SUCTION RAIL ASSEMBLY

The Suction Rail shall be an aluminum extrusion that is formed in a configuration such that the extrusion serves not only as a suction duct, but also as the guide rail that the extraction trolley travels in. The wall thickness of the aluminum extrusion shall be no less than .1043". The weight of the aluminum extrusion is 6.09 lbs. per lineal foot. The area of the aluminum extrusion, in a cross-sectional view, shall have the minimum equivalent area of 27 sq. in. (160 mm) with an overall length as specified and indicated on the drawings. The width of the rail shall be 6.0 in. (155 mm) and the height 7.0 in. (176 mm) each open end of the suction rail shall be covered with an end cap that can also be used as a round duct outlet. As an alternate outlet, one or more rectangular-to-round transitions can be mounted on the topside of the suction rail after the cutout has been made per the manufacturer's specified size. A pair of Neoprene rubber seals is installed at the bottom of the extrusion opening. The rubber seals close tightly during fan operation for an airtight seal, but open evenly around the trolley during trolley travel. The suction rail shall be supplied with internal rubber bumpers installed at both ends that serve as secondary stops to the trolley. The suction rail shall be supplied with suspension attachments that are specifically designed for fastening to the configuration of the suction rail. Spacing of the suspension attachments shall not exceed 15 feet center-to-center.

EXTRACTION TROLLEY ASSEMBLY

The Extraction Trolley Assembly serves as the component in the Rail System that travels in the suction rail, carries and supports the vertical hose assembly and balancer. The Extraction Trolley body shall be made of cast aluminum with a low friction stainless steel sliding plates on both sides to enable the trolley to travel smooth through the rubber seal. It shall have 6 composite ball-bearing running wheels and 4 ball bearing lateral support rollers and shock absorber. It shall be complete with an integral damper that is controlled by means of a cable that is attached to a hose balancer that will open and close the damper as needed. The trolley will also have an integrated safety connection to prevent the trolley from falling in the event of an accident. Shall be equipped with connection for a Balancer. May also be used without damper and balancer connection.

BALANCER

Attached to the Extraction Trolley is a Balancer. The adjustable tension Balancer shall retract the hose and nozzle away from the vehicle as it leaves the building and safely suspend the assembly off the floor in the storage position when not in use. The Balancer shall be designed with a spring characteristics that ensure that the cord is wound onto the drum at a constant speed. Must be included with a Balancer Bracket for Trolley mounting.

END STOP

The Rail shall be equipped with an End Stop, one for each end, which is designed to stop the trolley softly. Necessary mounting accessories must be included.

(Specific drop type, hose length and diameter, and nozzle TBD.)