intel® Technical Advisory

TA-335-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

December 6, 2000

Rack Dimension Guidelines for SC5000 Chassis and Rack Mount Kit Compatibility

Products Affected

AHDRACK, KHDBASEU, KHDHSU, KHDHSRPU, KHDBASE, KHDHS, KHDHSRP

Description

This technical advisory has been created to document the critical dimension requirements that a rack must adhere to in order to be compatible with the SC5000 chassis family and the SC5000 rack mount kit (AHDRACK). The dimensions described in this technical advisory are based on the EIA Standard EIA-310-D for cabinets, racks, panels, and associated equipment. This technical advisory is intended for use as a customer reference guide for determining if a rack's dimensions are compatible with the SC5000 chassis and rack mount kit.

Figure 1 below is a top down view of a rack. This figure shows the rack depth and width dimensions necessary for compatibility with the SC5000 chassis and rack mount kit. The minimum depth of the rack is 682 mm and the maximum depth is 810 mm, measured from the inside of the front vertical rail to the inside of the rear vertical rail. The minimum width of the rack is 475.4 mm. This minimum width must be maintained throughout the entire length of the rack without interference from other vertical rails or rack accessories.

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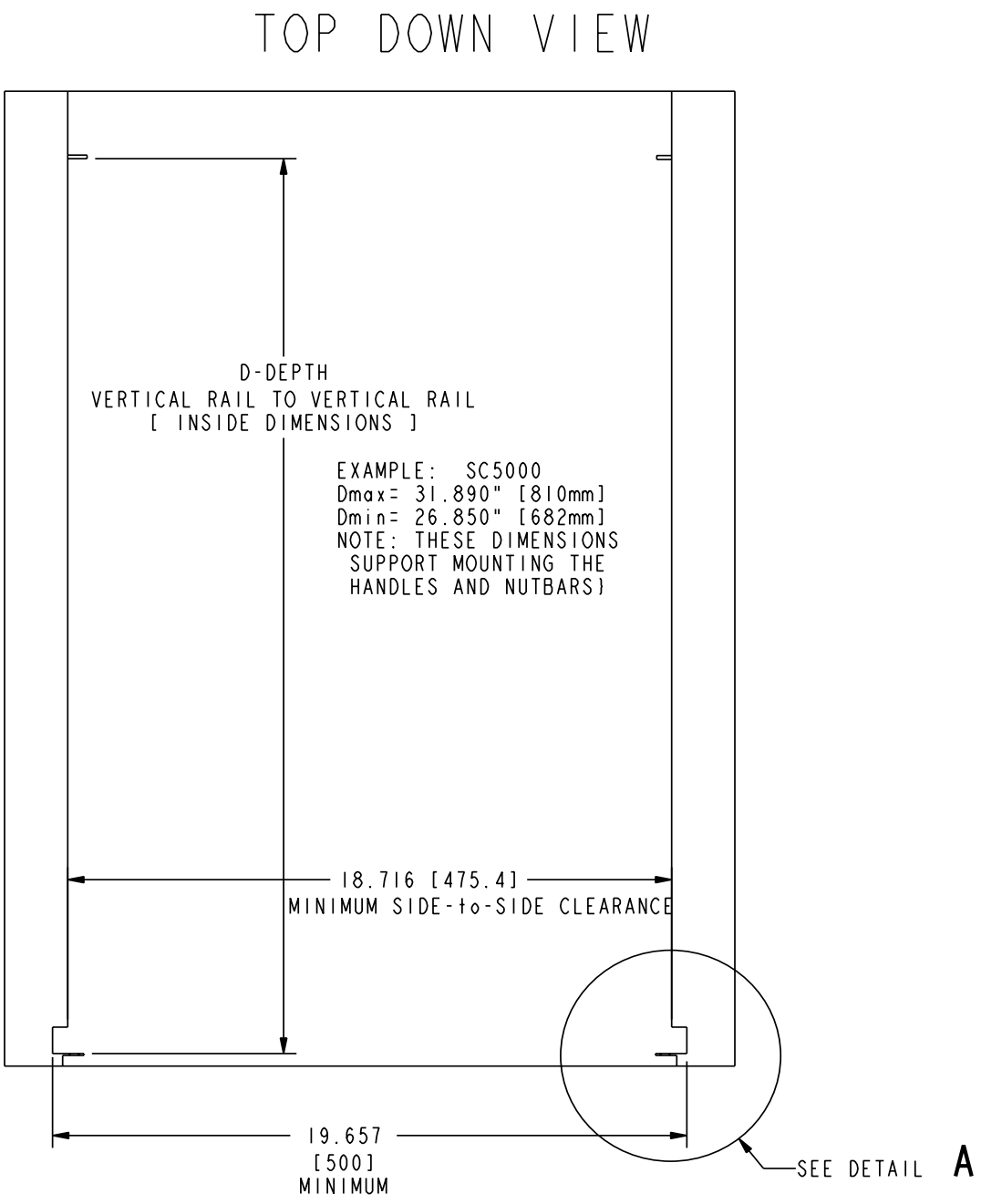

Figure 1: Top Down View of a Rack

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Figure 2 below is a front view of a rack. This figure shows the rack width dimensions and vertical rail hole dimensions necessary for compatibility with the SC5000 chassis and rack mount kit. The minimum width of the rack is 17.717 mm measured from the inside edge of one vertical rail to the inside edge of the other vertical rail. The vertical rail hole dimensions requirements are as shown in the figure.

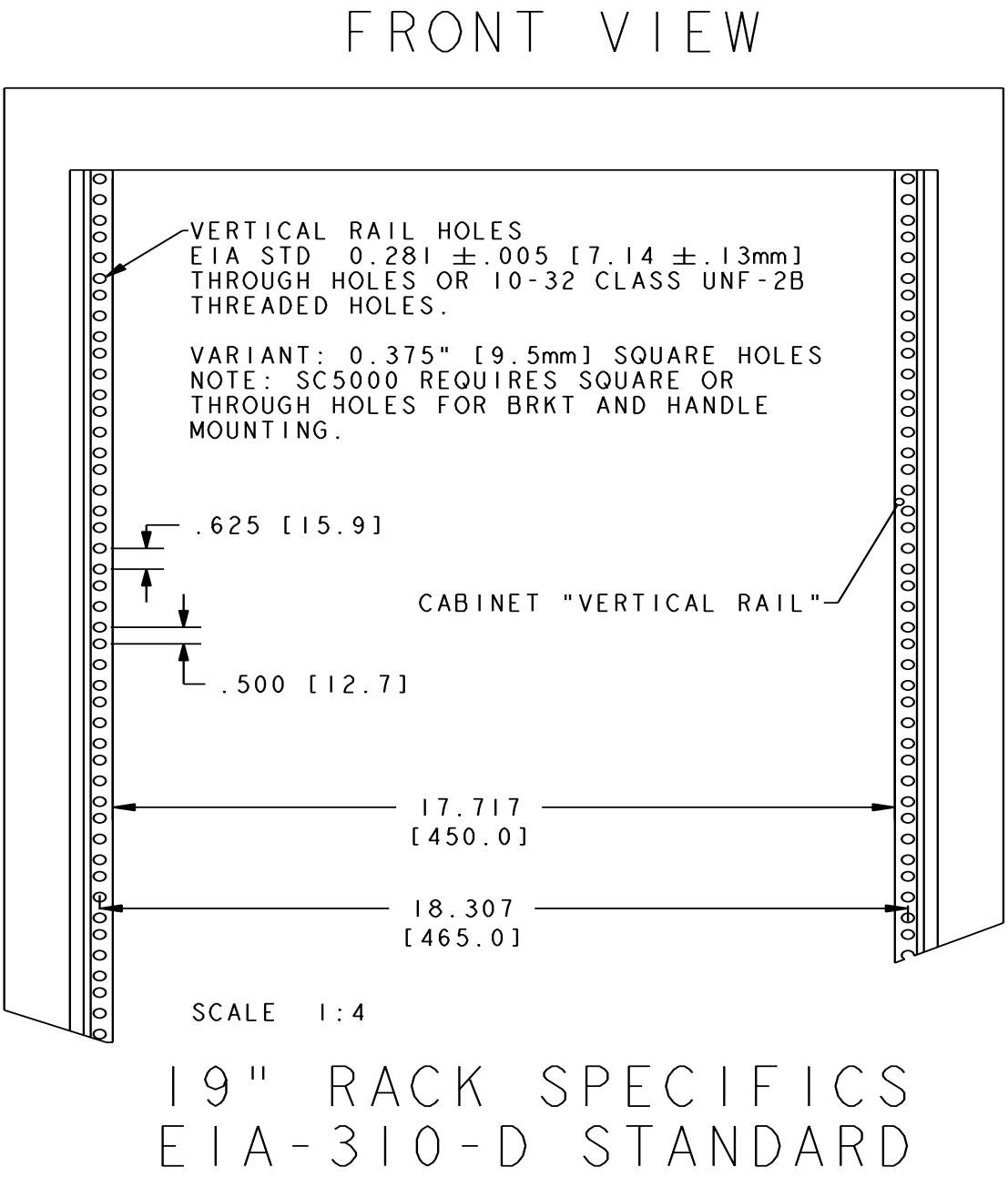

Figure 2: Front View of a Rack

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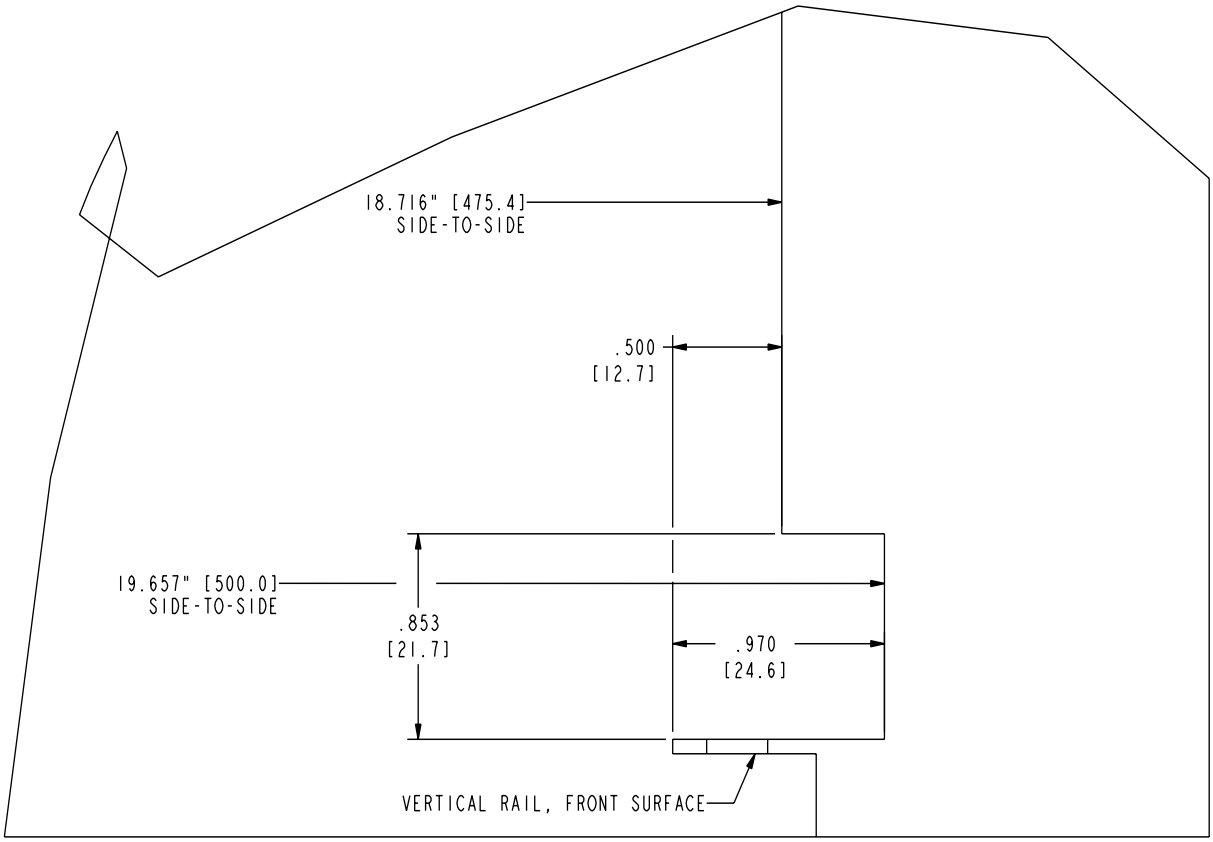
Figure 3 below is a detailed top-down view of a vertical rail cross-section. This figure shows the detailed dimensions of the vertical rail necessary for compatibility with the SC5000 chassis and rack mount kit. The SC5000 rack bracket mounts to the inside of the vertical rail front surface. All of the width dimensions shown in this figure are minimum dimensions necessary for compatibility with the SC5000 chassis and rack mount kit.



DETAIL A
SCALE 2:1

INNER SUPPORT MEMBER CONSIDERATIONS
NOT CONTROLLED BY EIA 310-D STANDARD

Figure 3: Vertical Rail Top Down Cross Section Detail

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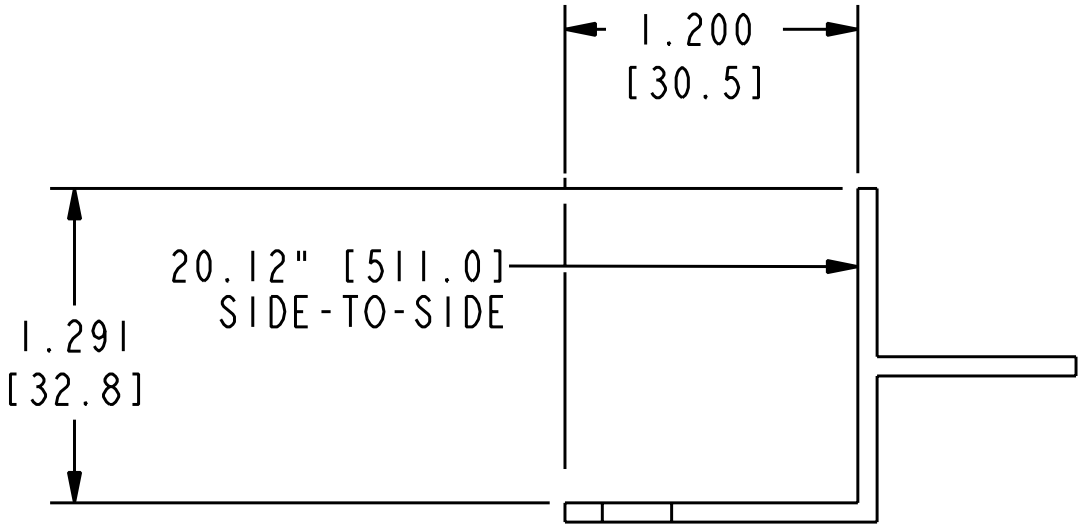
Figure 4 below is a detailed top-down view of a typical Rittal Rack vertical rail cross-section. Note that all of the width dimensions shown in this drawing are greater than the minimum width dimensions shown in Figure 3.



RITTAL VERTICAL RAIL CROSS_SECTION

Figure 4: Vertical Rail Top Down Cross Section Detail for a Typical Rittal Rack

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Figure 5 below is a detailed top-down view of a typical Schroff Rack vertical rail cross-section. Note that all of the width dimensions shown in this drawing are greater than the minimum width dimensions shown in Figure 3.

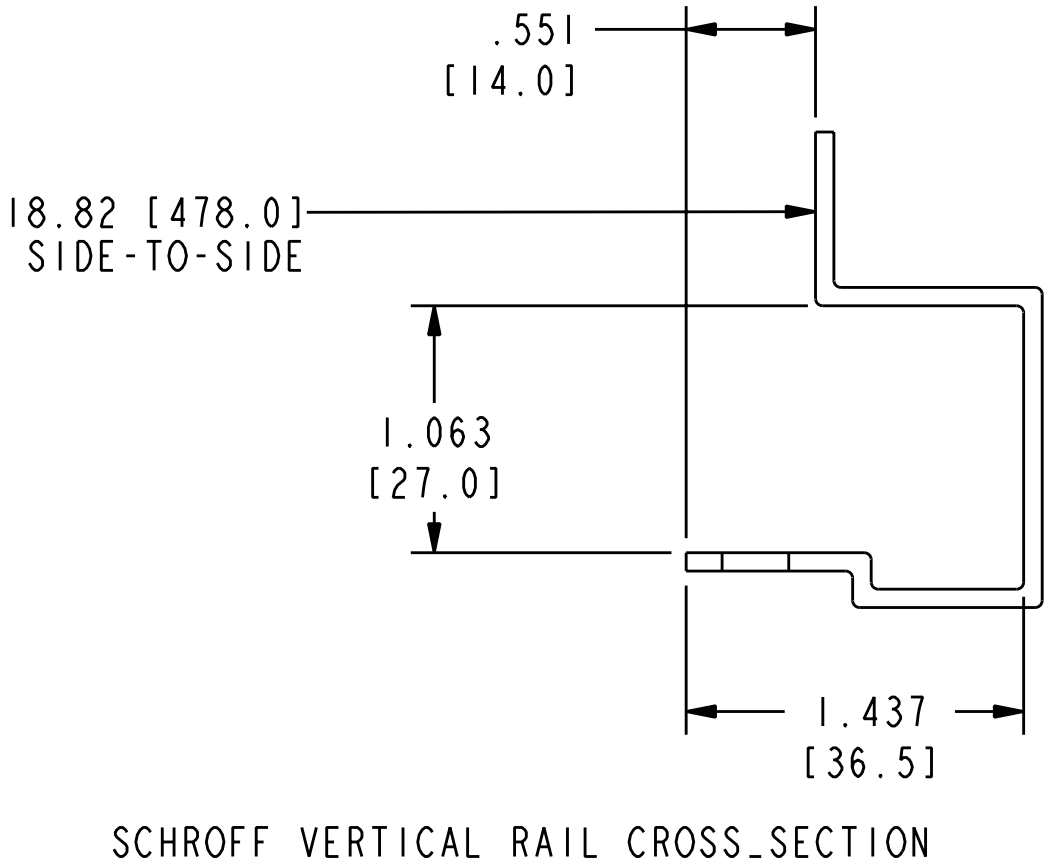

Figure 5: Vertical Rail Top Down Cross Section Detail for a Typical Schroff Rack

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Figure 6 below is a top-down view of the SC5000 chassis and installed AHDRACK kit. This figure shows actual dimensions of the chassis with the rack mount kit installed.

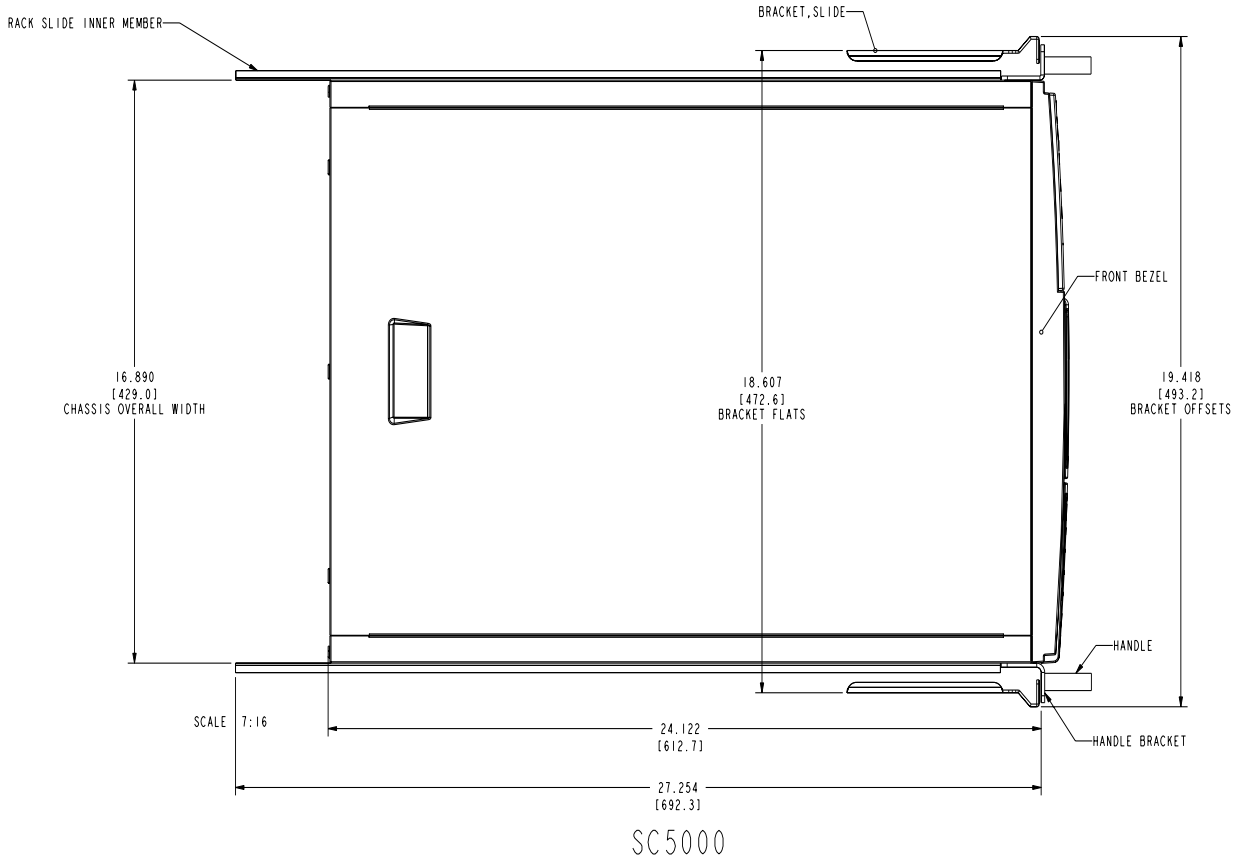

Figure 6: SC5000 Chassis and AHDRACK kit dimensions

Corrective Action / Resolution

Racks with dimensions outside the dimension guidelines described in this technical advisory may not be compatible with the SC5000 chassis and rack mount kit, and it may not be possible to utilize the SC5000 chassis and rack mount kit with these racks. Customers should contact their rack manufacturer to obtain the appropriate rack mounting hardware if the dimensions of their rack are outside of the guidelines described in this document.

Please contact your Intel Sales Representative if you require more specific information about this issue.

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