

Q-249



SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

E-Mail via Website: www.fleet.ford.com/truckbbas (click "Contact Us")

QVM Bulletin: Q-249

Toll-free: (877) 840-4338

Date: 01 August, 2016

Transit Roof Rack Mounting Guidelines

Models Affected: 2015 to present all Transit models (Low / Medium / High Roof)

Description:

It is recommended that all lateral roof rack beams should be centered over the roof mounting points / depressions. The number of roof rack attachment points varies by model from 6 to 10 positions. Roof racks should be designed to equally distribute all added cargo loads.

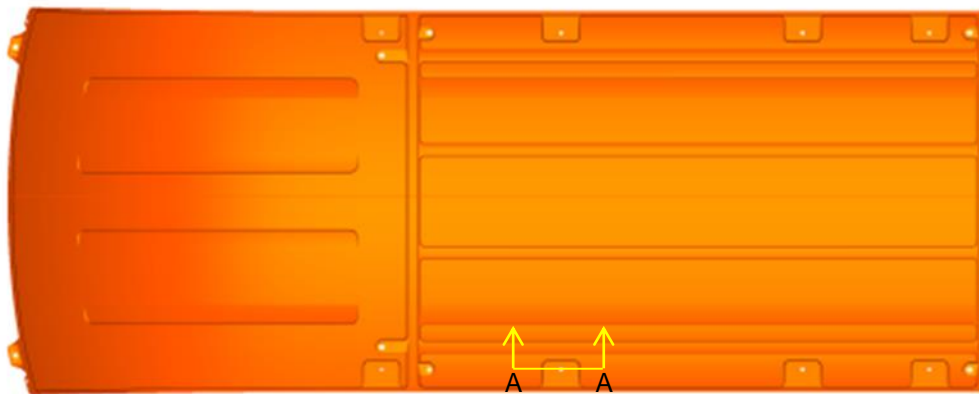


Figure 1: Typical roof rack attachment points

In order to prevent damage to the roof surface panel, the roof load (rack/ cargo) needs to be distributed to the proper load bearing surface, i.e. the roof rack or attachment footprint should not contact the class A surface of the roof panel (see Section A in Figure 2). The use of a spacer at each attachment point is recommended for constructions that may require additional clearance to avoid point loading Class A surface of the roof panel (See Figure 3). Roof rack design should consider use all of all available roof attachments.

Roof rack install should utilize M8 X 1.25 bolts to attach the roof rack to the roof attachment points. Maximum intrusion of the bolt for low, medium and high roof vans is .62". The installer will need to insure sealing of surfaces, for example EPDM rubber material or equivalent should be used, plus sealing material should be used along the bolt to prevent water intrusion.

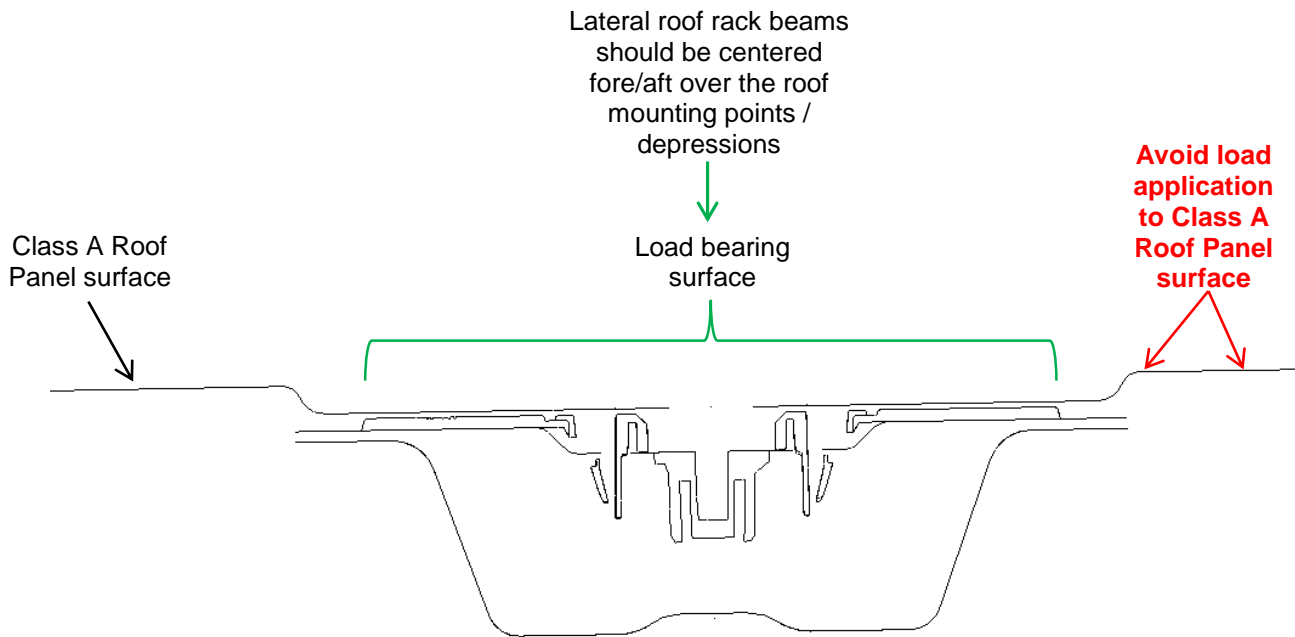
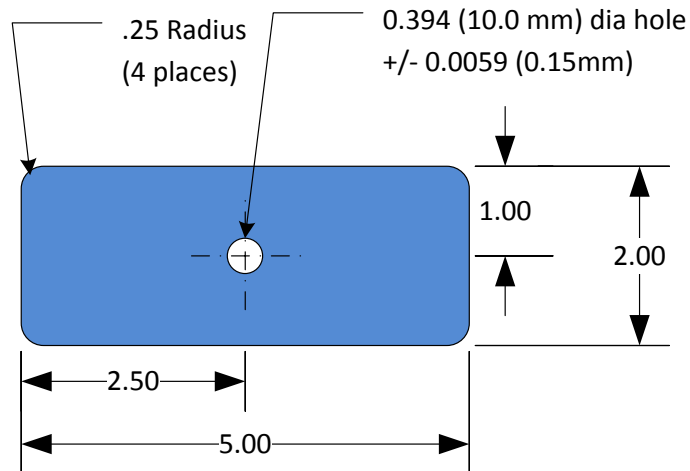


Figure 2: Section A-A from Fig. 1

Figure 3: Spacer Dimensions



Minimum Material Thickness-

Not to scale All dimensions in inches unless otherwise noted

Low Roof = 3/8" (0.375")
 Medium and High roof = 9/16" (0.563")
 De-burr all edges

Trimline Tolerance +/- 0.0197" (0.5 mm) entire periphery