

Moment on tongue of trailer

$$M = F C = 1120.8(40.4) = 45300 \text{ in lb}$$

or 22,400 lb at each side



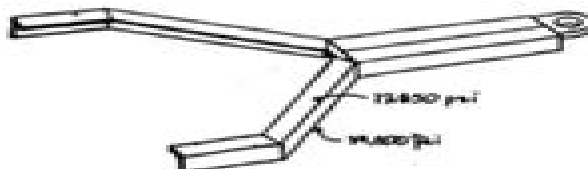
$$2.5^\circ - 2.5^\circ = 5^\circ \text{ angles}$$

$$I_x = 287.4 \text{ in}^4$$

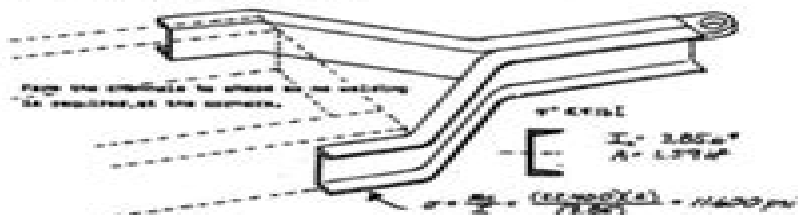
$$A = 6.73 \text{ in}^2$$

$$C = \frac{M}{I} = \frac{(22,400)(40.4)}{(287.4)} = 31,350 \text{ psi compression}$$

$$C_{tension} = \frac{M}{I} = \frac{(22,400)(40.4)}{(287.4)} = 31,350 \text{ psi tension}$$



If stress tube stresses are calculated on the basis of the truck (or wheel) going over a certain size bump (1 inch, about) at 30 miles per hour, we don't know what stresses and size of bumps should be used. Lower the load, if a 1" bump is considered worst case, the same driving conditions could result in a presumed bending stress of 21,400 psi. And this tongue could not have any but heavy section which would weaken it.



This brings out the advantage of the four-wheel trailer. In this case the tongue is hinged and any vertical movement at the hitch will just move it up and down without introducing any moment or bending stresses.

In Figure (a) the axial force is applied to the trailer by accelerating and braking the truck. These forces could be caused by the truck or trailer striking sharp holes in the road. Figure (a) illustrates the transverse force caused by side motion of either the truck or trailer striking ruts in the road.

The rigid type trailer which has a heavy fit and will produce more of a jerking action in cases (a), (b), and (c). A better fitting hitch, for example a ball and socket type would reduce the jolts on these loads.

The tongue must have some horizontal stiffness and strength to prevent it from bending if the trailer should "goose knife" while backing if the rear wheels of the truck should be pushed into the tongue, see Figure (a).

A

Summary

I believe the greatest forces on the tongue and trailer are those caused by the shock (bump) coming very readily up and down due to bumps in the road, see Figure (a). The values of these forces are difficult to determine because of the uncertainties of:

- 1) actual size of the bump or hole in the road,
- 2) amount of energy absorbed by the tires and springs of the truck,
- 3) velocity of the truck,
- 4) mass moment of inertia of the wheel and trailer.

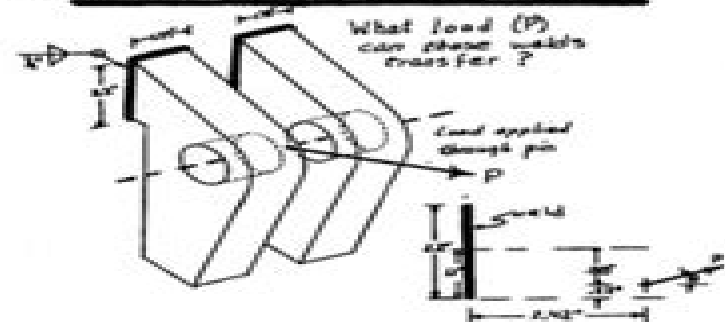
However, I believe these are real forces, that they could be very high under unusual road conditions and therefore a better tongue should be used, for example, that made of the H channel.

I believe no joints or weakness should be allowed, for example, cut outs, or corners, not, bent, and that welded with best quality welds, the quality weld may vary widely from one tongue to the next.

It also bothers me that we must rely upon some customer to make the important connecting weld to the trailer, even in the perfect position. This may be the first cut of position welding the customer has ever made in his life.

I believe someone should check into the various state requirements for trailers. Some would require brakes, running lights, and perhaps safety chains.

C



Property of connecting fillet weld (treated as a bar)



each connection  
 $I_x = 12 \text{ in} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = 0.067 \text{ in}^4$   
 for two connections  
 $I_x = 2 \times 0.067 = 0.134 \text{ in}^4$   
 $A_x = 2 \times 2 \times (1.31 \times 0.25) = 1.276 \text{ in}^2$

Moment on connection

$$M = F_x \cdot 37.6 + F_y \cdot 2.43 \text{ in}$$

$$F_x = P \sin \theta = 0.85 P$$

$$F_y = P \cos \theta = 0.75 P$$

$$(\text{assume } \theta = 40^\circ)$$

$$M = 0.85 P(37.6) + 0.75 P(2.43) = 1.268 P(40)$$

$$S = \frac{M}{I} = \frac{1.268 P(40)}{0.134} \text{ or } S = 1.379 \frac{P}{\text{in}^2}$$

Transverse force (horizontal)

$$F_x = \frac{M}{I} = \frac{1.268 P(40)}{0.134} = 0.676 \frac{P}{\text{in}^2}$$

Parallel force (vertical)

$$F_y = \frac{M}{I} = \frac{1.268 P(40)}{0.134} = 0.751 \frac{P}{\text{in}^2}$$

Resultant will have an angle  $\theta = \sqrt{(F_x/F_y)^2 + 1}$

$$F_r = \sqrt{(0.676)^2 + (0.751)^2} P(0.1215) = 0.2067 \frac{P}{\text{in}^2}$$

$$\text{but } F_r = 0.707 \text{ to } 21,000 \frac{\text{lb}}{\text{in}^2} \text{ set equal to } 0.008 \frac{\text{lb}}{\text{in}^2}$$

$$0.008 \frac{\text{lb}}{\text{in}^2} = 0.707 \text{ to } 21,000 \frac{\text{lb}}{\text{in}^2} = 0.707(0.2) 21,000 \frac{\text{lb}}{\text{in}^2}$$

$$P \left( \frac{0.707(0.2)(21,000)}{0.2067} \right) \text{ lb or } P = 12,000 \text{ lbs}$$

A this is for steady load and 570 weld metal for failure you might multiply this by 2.5 or P 42,000 lbs

D

B

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