

A Larger Radius Corner of *Titanic's* Roof of the First-Class Lounge

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Introduction

A modern discovery was made (not by me) that one of the corners of the roof over *Titanic's* first-class lounge had a larger radius than the other corners. The purpose of this article is to reinforce this discovery for modelers, artists and historians. The article will be brief because the photos which will be given will preclude a lengthy explanation.

The Larger Radius Corner

Every right-angle corner of the roof over *Titanic's* first-class lounge has a 12-inch radius except one. Figure 1 shows the location of the one corner of the roof which has a larger diameter.

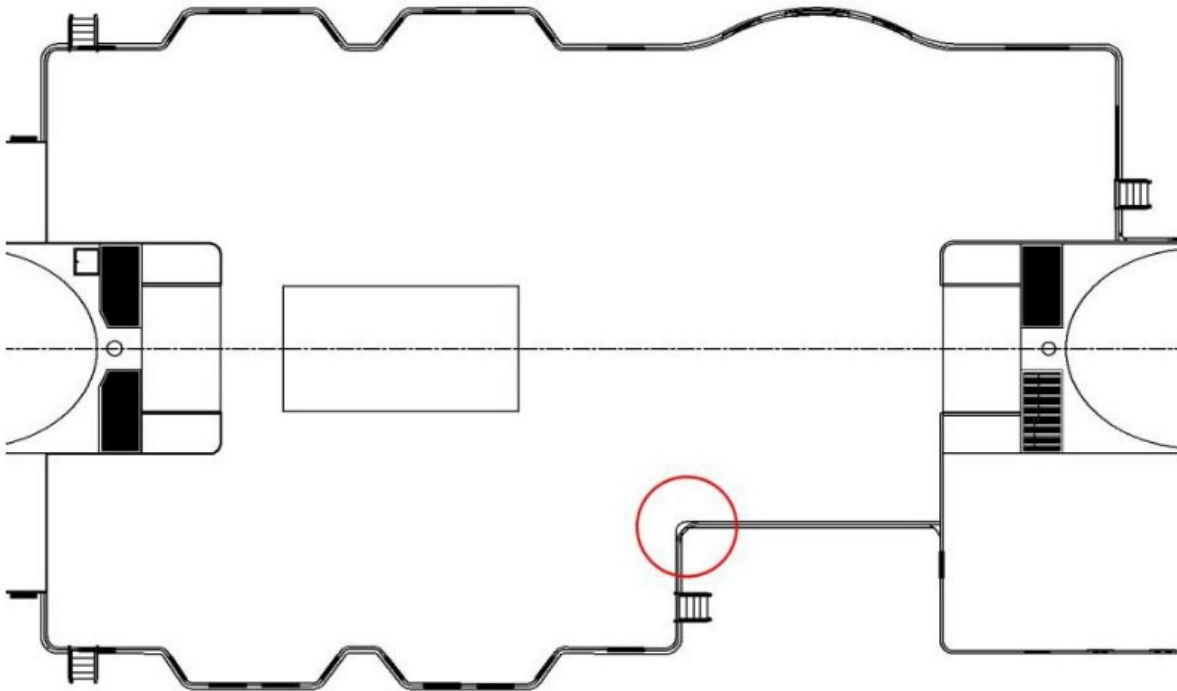


Figure 1

Figure 2 and Figure 3 are photos which show this particular corner of the first-class lounge roof.



Figure 2



Figure 3

This larger radius corner involves only the steel decking and wood sheathing of the roof. The bulkheads of the lounge form the conventional 12-inch diameter corner. The photos above don't really give much of a clue as to the radius of the corner. Figure 4 is the one photo which gives us a more accurate representation of the radius of the corner.



Figure 4

We can see in Figure 4 the individual plank sheathing boundaries. The planks are 5-inches wide. From the photo we can see that the radius corner begins where the outboard railing stanchion begins. Counting the number of planks to the inboard boundary of the radius, we can see that the radius is 30 inches.

The question arises as to why would this corner have this larger diameter roof corner? The answer can be gleaned from the corner just forward of this corner. Figure 5 shows the location of this corner.

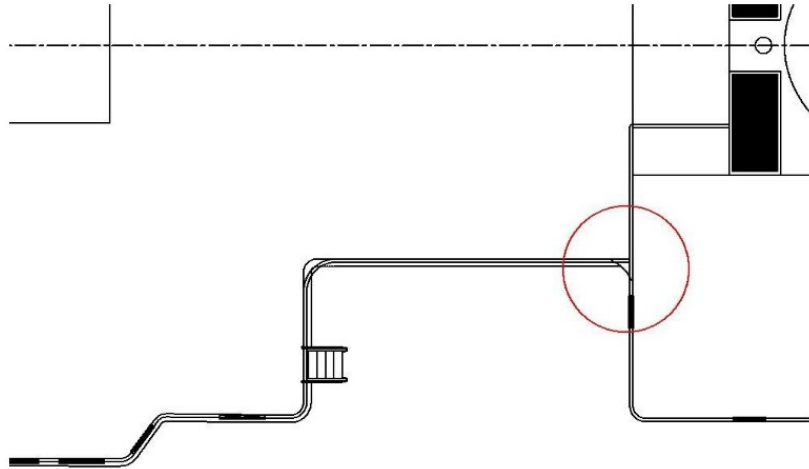


Figure 5

Figure 6 shows a passenger sitting on top of this knee.



Figure 6

The original corner which was discussed also had a reinforcement knee in this corner of the raised roof bulkhead. The difference in this location is that the steel decking which forms the roof of the first-class lounge is extended to cover the knee. This allows a greater radius corner to be formed by the roof. Figure 2 shows the waterway around the base of the roof retains the 12-inch radius of the deck house while the roof has a larger diameter.

Figure 7 shows an enlarged drawing of the large radius corner of the lounge roof. The dashed lines show the 12-inch radius corner of the deck house.

Deckhouse (dashed line)
12 inch radius corner

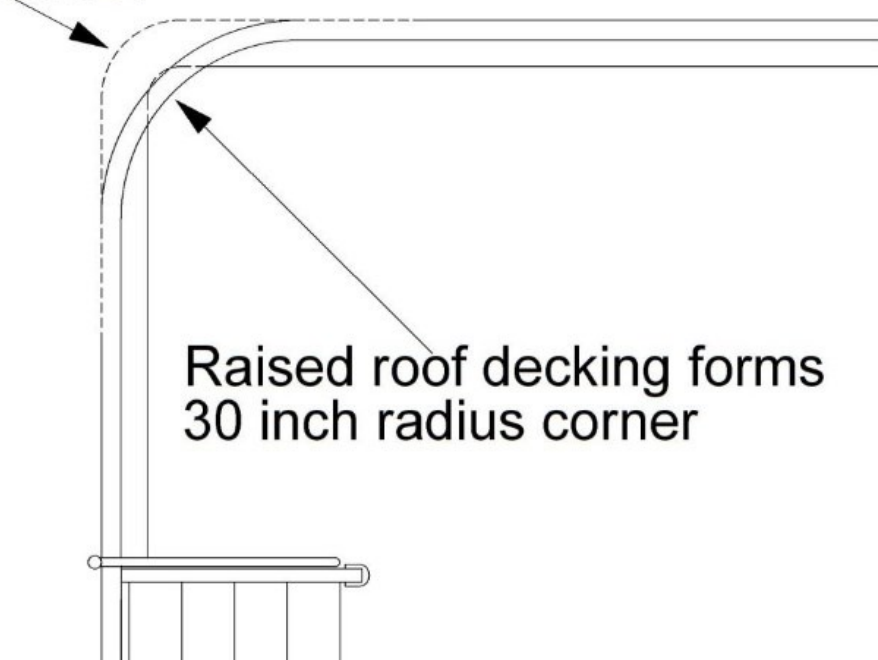


Figure 7

Conclusion

The roof of the starboard inside right angle corner of the first-class lounge aft of the gymnasium forms a 30-inch radius corner while the deckhouse below retains a 12-inch radius. The larger radius of the roof is formed because a reinforcing knee is placed directly below the steel decking of the roof and the roof follows the radius of the knee below it. This feature was not a modification made to *Titanic*. This feature was also on *Olympic* as built.