



BEAMS UNDER VESSEL DECK

R4A

R5A

R2A

STEEL DECK

R3A

R6A

1. BRACES AND EQUIPMENT ON TOP OF STRUCTURE NOT SHOWN.
2. NODES R4A, R5A ETC. INDUCE LOADS ON THE DECK WHEN AN EQUIPMENT IS PLACED ON THE SHOWN STEEL STRUCTURE MADE OF COLUMNS AND BEAMS.
3. AFTER ANALYSIS IN RISA 3D, ASSUME ALL NODES (OR COLUMN ENDS) EXERT 25 KIPS POINT LOAD ON DECK WITH DECK CAPACITY OF 1000 LBS/FT².

THE QUESTIONS ARE:

1. IS THERE A WAY TO SPREAD THE POINT LOADS ON THE DECK? SAY FOR EXAMPLE BY PUTTING IN A W BEAM JOINING R3A AND R6A? AND SAME FOR R2A AND R5A?
2. IS THERE ANY FORMULA OR CALCULATIONS AVAILABLE IN THIS REGARD?
3. I KNOW COLUMNS OF THE STRUCTURE SHOULD FALL DIRECTLY ON BEAMS OR COLUMNS PRESENT UNDER THE DECK, BUT SAY IF THE VESSEL BEAMS ARE QUITE FAR, THEN HOW TO PROCEED? BECAUSE MODIFICATIONS TO BEAM OR COLUMNS UNDER THE DECK IS MOSTLY NOT FEASIBLE.

POINT LOADS R3A

POINT LOAD R6A

