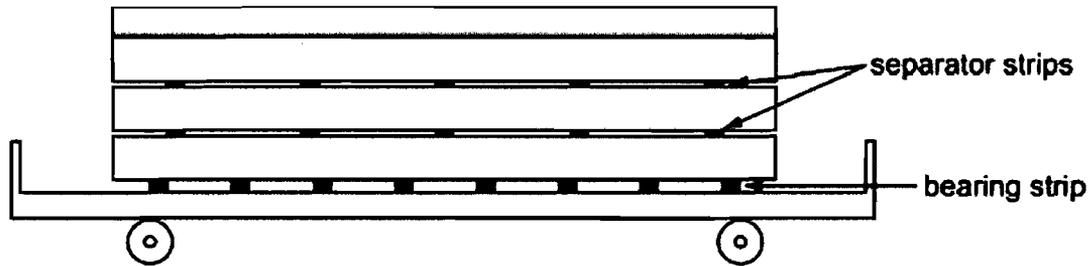
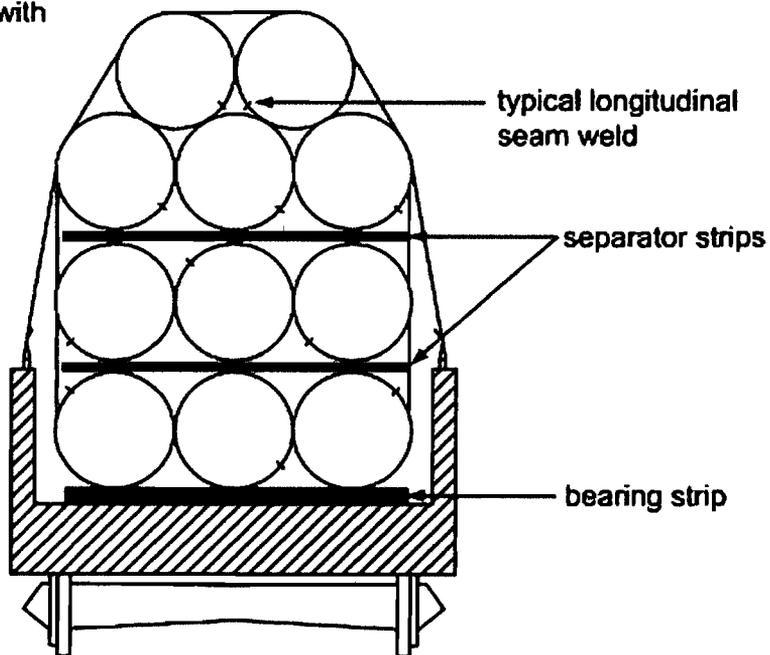


indicated that the circumferential tensile stresses decreased rapidly away from the bearing or separator strips. Aligning the welded seams at 45° to the vertical results in very small levels of circumferential tensile stress at the welds during transport. (See figure 10.) The results of the finite element model also indicate that aligning the welds at the 2, 4, 8, or 10 o'clock positions instead of exactly 45° from vertical does not increase the stress levels significantly.



Side View

Note:
Pipes randomly loaded with longitudinal seam weld at 45° to the vertical.



Cross Section

Not to scale

Figure 10. Typical pipe configuration on railroad car.

WEB Exhibit # 31