

# **Abstract**

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## **SIMPLIFY CHARTS FOR THE DESIGN OF VERTICAL FOOTWORK SYSTEMS**

This paper presents simplify charts for the design of traditional wall formwork systems. The first step is to determine the pressure due to fresh concrete using the cement type , concrete weight , rate of placing and the temperature .The second step is to determine the safe distance between studs using plywood thicknesses 19 22 25 mm .The third step is to determine the distance between wales using studs of 50\*100 mm (2\*4 in) 50\*125 mm (2\*5 in) 50\*150 mm (2\*6 in) lumber .Finally the safe distance between ties is determined using wale section of double 50\*100 mm (2\*4 in) 50\*125 mm (2\*5 in) lumber.