

Stair Building Project

Challenge:

To design and construct a set of stairs to half scale based on the following information:

Total Rise: _____
Comfort Factor: _____
Stair Width: 2'-10" (not including the nosing)
Nosing: 1" (three sides)
Stringers and Treads: 1 ½ thick
Risers: ¾" plywood

A. Stair Calculation:

Using your information, calculate the set of stairs in the space below and record the following information.

Total Rise (in.): _____
of Risers: _____
of Treads: _____
Tread Rise: _____
Tread Run: _____
Total Run (ft. & in.): _____

B. Stair Construction:

Construct your stairs to half scale. Your project will be marked using the following criteria.

Accuracy:

Stair Calculation /6
Stair Width /2
Rise & Run Size /12
Nosing: size, routing /5
Total Rise & Run /10

Quality:

Joints: tight, flush /10
Screws & Nails: installation, layout /5
Square /5
Sanding: smooth & clean /5

Total: /60