

HANDOUT: Rough Openings: Conversion (3 pages)

Skill Builders: Conversion, Rounding, Tables & Lists

IN THE WORKPLACE: To ensure that doors and windows fit tight enough to prevent water and air leaks, rough openings must be made larger than the item to be installed. The added space allows for variations such as headers or floors that are out of level and openings that are slightly out of square.

1. Convert the following from inches to mm. Include the unit in your answer. (1 in. = 25.4 mm)

a) $27\frac{3}{4}$ "

b) 84"

c) $71\frac{1}{4}$ "

2. Convert the following from mm to inches. Calculate to the closest $\frac{1}{8}$ ". Include the unit in your answer. (1 in. = 25.4 mm)

a) 2032 mm

b) 915 mm

c) 1000 mm

3. Complete the following table of popular door sizes. Include the unit in your answers. Calculate all metric measurements to the nearest whole number.

Metric mm	Imperial feet & inches	Imperial inches
1830 mm x 610 mm	6' 0" x 2' 0"	
	6' 6" x 1' 6"	78" x 18"
1981 mm x 762 mm		78" x 30"
	6' 8-1/4" x 2' -1/8"	80-1/4" x 24-1/8"
2040 mm x 721 mm	6' 8-5/16" x 2' 4-3/8"	

4. Recreate the Opening Height sub-headings and the first 2 lines of the **Rough Openings** table using metric instead of imperial measurements. Calculate to the nearest whole number. Include the unit in your answers.

Rough Openings

Door Description	Opening Width		Opening Height	
	Actual Frame Width Size	Stud to Stud Rough Opening Minimum		
			Inswing	Inswing
			Outswing	Outswing

Rough Openings

Door Description	Opening Width		Opening Height	
	Actual Frame Width Size	Stud to Stud Rough Opening Minimum	6' 8"	7' 0"
2' 0" Single	25 ½ "	26 "	Inswing 82" Outswing 81 ¼"	Inswing 86" Outswing 85 ¼"
2' 4" Single	29 ½ "	30"		
2' 6" Single	31 ½ "	32 "		
2' 8" Single	33 ½ "	34 "		
2' 10" Single	35 ½ "	36 "		
3' 0" Single	37 ½ "	38 "		
4' 8" Double	58"	58 ½ "	Inswing 82" Outswing 81 ¼"	Inswing 86" Outswing 85 ¼"
5' 0" Double	62 "	62 ½ "		
5' 4" Double	66 "	66 ½ "		
5' 8" Double	70"	70 ½ "		
6' 0" Double	74"	74 ½ "		

Ref: Bow Valley College. (2020). Rough Openings. [table]. Calgary, Canada: Author.