

Materials Used In Roofs and Walls (Exterior & Interior)¹

Roof Materials Facts

Table D-2-3
Materials used in roof systems of new U.S. residential construction, by region,¹ 1997-2001

Region	All roof systems ²				Trusses Rafters	
	1997	1998	1999	2000	2001	
<i>Percent</i>						
United States:						
Dimensional lumber	97.5	97.3	96.7	95.9	99.1	97.8
Engineered wood products	2.1	2.4	2.9	2.7	0.8	2.2
Steel	0.4	0.3	0.2	1.2	0.1	0.0
Structural insulated panels	0.0	0.1	0.2	0.2	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Northeast:						
Dimensional lumber	93.5	98.8	95.9	95.8	95.3	95.2
Engineered wood products	6.4	1.2	2.1	4.0	4.5	4.8
Steel	0.0	0.0	1.6	0.1	0.3	0.0
Structural insulated panels	0.1	0.0	0.4	0.1	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Midwest:						
Dimensional lumber	98.5	97.1	97.4	97.0	99.4	96.2
Engineered wood products	1.4	2.7	2.2	2.7	0.5	3.7
Steel	0.1	0.1	0.2	0.1	0.0	0.0
Structural insulated panels	0.1	0.1	0.1	0.1	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
South:						
Dimensional lumber	98.5	98.2	99.5	97.9	98.8	99.7
Engineered wood products	0.8	0.7	0.0	0.3	0.6	0.0
Steel	0.7	0.9	0.5	1.7	0.6	0.3
Structural insulated panels	0.0	0.1	0.1	0.1	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
West:						
Dimensional lumber	95.6	94.5	90.4	91.1	99.2	89.1
Engineered wood products	3.7	5.0	9.1	4.2	0.7	10.7
Steel	0.7	0.4	0.1	4.6	0.1	0.3
Structural insulated panels	0.0	0.4	0.3	0.1	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

¹ Regions correspond to U.S. Census Regions as shown in figure 2-3.

² Reporting method changed between 1997-2000 and 2001. All roof systems include trusses, rafters, structural insulated panels, beam and purlin, and other. Only roof trusses and rafters were reported in 2001.

Source: USITC estimates based on data from National Association of Home Builders Research Center.

1. During 1997-2001, wood maintained its dominant presence in the U.S. residential market for structural building materials compared with its principal substitutes, concrete and steel.
2. Steel-- During 1997-2001, the Steel market share in the U.S. market roof trusses generally remained less than 1%. A small number of manufacturers of wood structural building components also noted production of steel trusses.
3. Steel-- Steel has not made significant inroads into residential construction in Canada and is not anticipated to do so in the near future.

Interior Wall Facts

Table D-2-1
Materials used in interior wall systems of new U.S. residential construction, by region,¹
1997-2001

Region	1997	1998	1999	2000	2001
	<i>Percent</i>				
United States:					
Wood	96.6	94.7	94.7	93.9	94.8
Steel	3.1	4.8	4.9	6.9	5.0
Other	0.0	0.0	0.0	0.0	0.1
Masonry	0.3	0.5	0.4	0.1	0.1
Total	100.0	100.0	100.0	100.0	100.0
Northeast:					
Wood	98.9	96.1	93.6	95.3	98.0
Steel	0.0	0.0	0.0	0.0	1.2
Other	1.1	3.9	6.3	4.7	0.7
Masonry	0.0	0.0	0.3	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0
Midwest:					
Wood	100.0	97.6	98.6	99.6	99.6
Steel	0.0	2.4	1.4	0.4	0.4
Other	0.0	0.0	0.0	0.0	0.0
Masonry	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0
South:					
Wood	93.1	91.7	92.2	91.2	90.8
Steel	6.2	7.1	6.9	8.6	9.0
Masonry	0.7	1.2	0.9	0.2	0.1
Other	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0
West:					
Wood	98.7	97.4	96.1	92.4	97.3
Steel	1.3	2.6	3.9	7.6	2.6
Masonry	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0

¹ Regions correspond to U.S. Census Regions as shown in figure 2-3.

Source: USITC estimates based on data from National Association of Home Builders Research Center.

1. During 1997-2001, wood maintained its dominant presence in the U.S. residential market for structural building materials compared with its principal substitutes, concrete and steel.
2. Steel--In spite of steel industry efforts, the growth of steel market share has not been as fast as expected, but has been most apparent in the market for interior wall framing, particularly in multifamily residential construction. During 1997-2001, the steel market share in the U.S. market for interior wall materials increased from 3% to 5%.
3. Steel-- Steel has not made significant inroads into residential construction in Canada and is not anticipated to do so in the near future.

Exterior Wall Facts

Table D-2-2
Materials used in exterior wall systems of new U.S. residential construction, by region,¹
1997-2001

Region	1997	1998	1999	2000	2001
	<i>Percent</i>				
United States:					
Wood	89.1	87.8	88.3	89.9	87.6
Masonry	10.2	11.7	10.9	8.5	11.7
Steel	0.7	0.5	0.9	1.6	0.7
Total	100.0	100.0	100.0	100.0	100.0
Northeast:					
Wood	96.1	94.1	95.9	95.6	93.2
Masonry	3.7	5.9	3.8	3.8	6.4
Steel	0.2	0.0	0.3	0.6	0.4
Total	100.0	100.0	100.0	100.0	100.0
Midwest:					
Wood	96.2	95.4	98.4	98.5	95.1
Masonry	3.8	4.6	1.6	1.4	4.4
Steel	0.0	0.1	0.0	0.1	0.6
Total	100.0	100.0	100.0	100.0	100.0
South:					
Wood	80.0	77.7	79.3	83.5	78.1
Masonry	19.8	21.9	20.6	16.3	21.8
Steel	0.3	0.5	0.2	0.2	0.1
Total	100.0	100.0	100.0	100.0	100.0
West:					
Wood	96.6	97.1	91.7	92.3	96.2
Steel	2.3	1.2	3.3	5.9	2.2
Masonry	1.1	1.7	5.0	1.8	1.6
Total	100.0	100.0	100.0	100.0	100.0

¹ Regions correspond to U.S. Census Regions as shown in figure 2-3.

Source: USITC estimates based on data from National Association of Home Builders Research Center.

1. During 1997-2001, wood maintained its dominant presence in the U.S. residential market for structural building materials compared with its principal substitutes, concrete and steel.
2. Steel--The use of steel in exterior wall framing is limited (because of its relatively poor insulation properties) to climates that do not experience extreme cold or hot weather. During 1997-2001, the steel market share in the U.S. markets for exterior walls generally remained less than 1%. A small number of manufacturers of wood structural building components also noted production of steel panels.
3. Steel-- Steel has not made significant inroads into residential construction in Canada and is not anticipated to do so in the near future.

¹ All facts taken directly from the U.S. International Trade Commission Publication 3596 entitled "Conditions of Competition in the U.S. Market for Wood Structural Building Components" from ITC Investigation No. 332-445 April 2003. U.S. International Trade Commission, Washington, DC 20436, www.usitc.gov