Species	Radial shrinkage (%)	Tangential shrinkage (%)
Birch, paper	6.5	8.6
Birh, sweet	6.5	8.5
Birch, yellow	7.2	9.2
Cedar	4.7	10.2
Douglas-fir, coastal	5.0	7.8
Douglas-fir, interior-north	3.8	6.9
Douglas-fir, interior-west	4.8	7.5
Maple, black	4.8	9.2
Maple, red	4.0	8.2
Maple, sugar	4.9	9.5
Oak, black	4.5	9.7
Oak, Oregon white	4.2	9.0
Oak, Northern red	4.0	8.2
Oak, Southern red	4.5	8.7
Oak, white	5,3	9.0
Poplar, yellow	4.6	8.2
Walnut, black	5.5	7.8
Mahogany	3.6	5.0

Shrinkage coefficients



Article:

The Shrinkage and Swelling of Wood and its effects on Furniture By *Carl A. Eckelman*

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Mahogany shows the lowest value both for tangential and radial contraction. It is therefore the most stable material among those used in organbuilding today.

Mahogany variety utilized by Fratelli Ruffatti:

Sipo Mahogany (*Entandrophragma utile*) Family: *meliacee* Distribution: West and central Africa Growing environment: Moist deciduous forest, grows to height of 150 to 200 feet Shape: Straight, cylindrical. Diameter at base may reach 8 feet Naturally resistant to termite damage

Sipo is the most stable among all varieties of Africam Mahogany. Since the values shown in the above table likely refer to average quality mahogany, these values may be even better for Sipo. All Sipo mahogany used in the Ruffatti workshop is *Forest Stewardship Council* (FSC) certified, coming from forests where sustainable forestry is practiced.