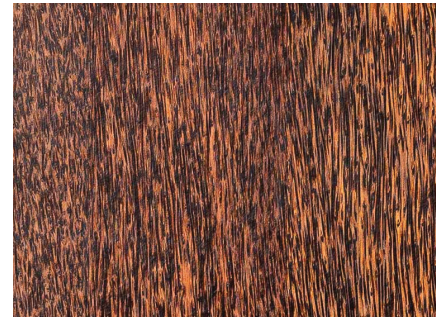




CASE STUDY: RESIDENTIAL

Atelier Viollet Furniture Design

The Eden Desk, created by renowned furniture designer Jean-Paul Viollet of Atelier Viollet, features an end-grain palmwood surface that produces a snakeskin-like appearance. The drawer front surfaces are finished with a geometric mica tile that adds a complementary flair in contrast to the palmwood's cascading pattern. Mr. Viollet sought to create a piece of furniture that combines two dynamic natural materials in order to achieve an exotic and unique look that is part of the Atelier Viollet vocabulary.

Application:
Furniture

Location:
New York, NY

Designer:
Jean-Paul Viollet, Atelier Viollet

Materials Used:
Flat Grain Sugar Palm Veneer
Sugar Palm Lumber (Borassus)



Sugar Palm Lumber

Material:

Borassus Flabellifer

Standard Sizes of Lumber:

- Thicknesses:
1"(25.4mm), 1.25"(32mm), 1.5"(38mm) and 1.75"(45mm)
- Widths:
3" (76.2mm), 3.5"(90mm) and 4"(100mm)
- Lengths:
6" (152.4mm) to 97"(2464mm)

Finish Condition:

Raw Lumber

Hardness:

3200psi average, Janka testing (OSU 2017)

Impact:

1088 average Janka testing (OSU, 2017)

Specific Gravity:

0.952 at 15% MC (OSU, 2017)

Bending MOR / MOE:

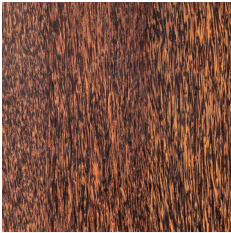
23,600 / 2,232,710 (OSU, 2017)

Dry weight: (average)

51lbs. / FT3 / 820KG/M3 (wood-database.com, red palm)

Possible LEED Credits:

Low-emitting Materials + Bio-Based Materials



Flat Grain Sugar Palm Veneer

Material:

100% palm or with poly fleece backing

Standard Sizes:

- Sheets:
0.04" x 49" x 49" (1mmx1.24mx1.24m)
1mm x 4" x 24", 36", 48", 60"
- Raw Flitches:
0.04"x3.5"x lengths from 24"-60" (1mm x 90mm x 10mm-1.52m)

Finish Condition:

Unfinished

Emissions:

Meets or surpasses ULEF (ultra low emitting formaldehyde) standards under CARB II

Possible LEED Credits:

Low-emitting Materials + Bio-Based Materials