



Artificial accelerated aging test at QSUN of eight different colors for cladding/decking

The process for all Accoya sample (smooth and anti-slip milled), was:

- 2 Coats YS---C100 colored
Light Sand P400
- 1 Coat YS---M305 with 5% Color



QSUN



Aging test method used

Paint: ISO 16474-2 (2013)		
Table 3, Method A (XENO), Cycle 1 (BST)		
Irradianza lampada (W/m2)	KJ/m2/h	
a 340 nm	0,51	1,8
300-400 (TUV)	60	216,0
300-800 (TUV+VIS)	588	2116,8
300-3000 (TOTALE)	1093	3934,8
Durata del test	200	200,0
Xeno (102 min)	170,0	65°C/38°C/50%UR
Xeno + Spray (18 min)	30,0	no control
Dose Energia totale	KJ/m2	MJ/m2
a 340 nm	367,2	0,4
300-400 (TUV)	43200,0	43,2
300-800 (TUV+VIS)	423360,0	423,4
300-3000 (TOTALE)	786960,0	787,0

Correspondence between QSUN hrs and outdoor exposure:

months in extreme climate / months in moderate climate

	600 hrs			1200 hrs			1800 hrs			2400 hrs			3000 hrs		
	NORD	EST/OVEST	SUD	NORD	EST/OVEST	SUD	NORD	EST/OVEST	SUD	NORD	EST/OVEST	SUD	NORD	EST/OVEST	SUD
Decking	4/5	4/5	4/5	8/10	8/10	8/10	12/16	12/16	12/16	16/21	16/21	16/21	20/26	20/26	20/26
Cladding slope 45°	7/9	5/6	4/5	14/18	9/12	7/9	21/27	14/18	11/14	28/36	19/24	15/19	35/45	23/30	18/24
Cladding	13/16	7/10	6/7	25/33	15/19	11/15	38/49	22/29	17/22	50/65	30/38	22/29	63/82	37/48	28/36

1. STONE

START

600 hrs

1200 hrs

1800 hrs

2400 hrs

3000 hrs

Accoya SMOOTH



Accoya ANTI-SLIP MILLED



2. PUMICE

START

600 hrs

1200 hrs

1800 hrs

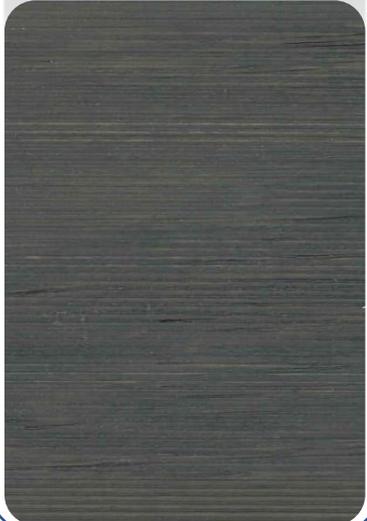
2400 hrs

3000 hrs

Accoya SMOOTH



Accoya ANTI-SLIP MILLED



3. LILY

START

600 hrs

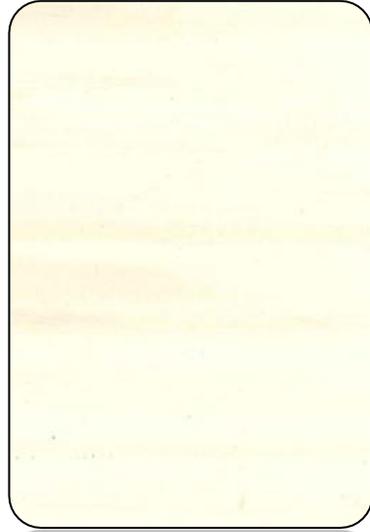
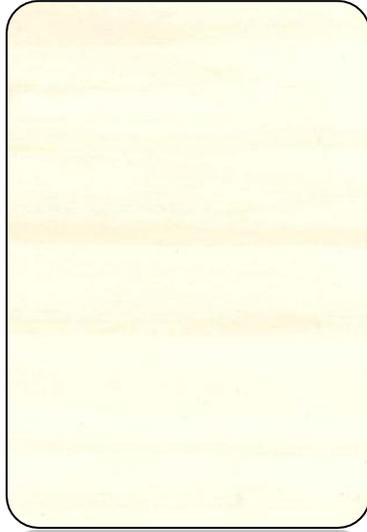
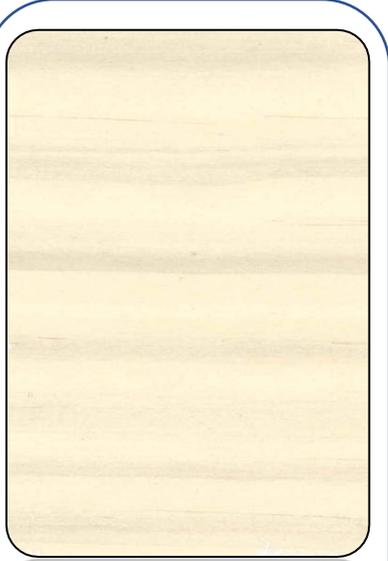
1200 hrs

1800 hrs

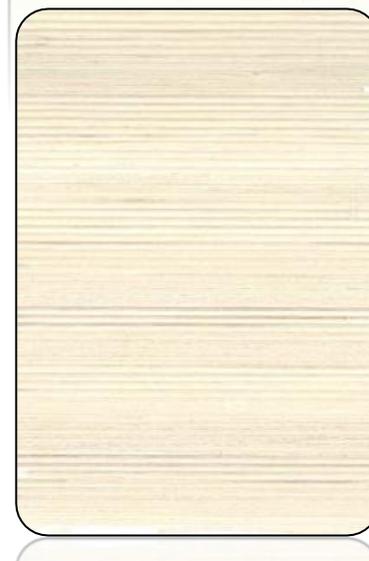
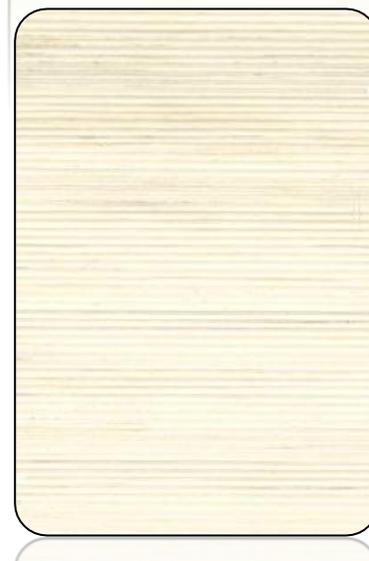
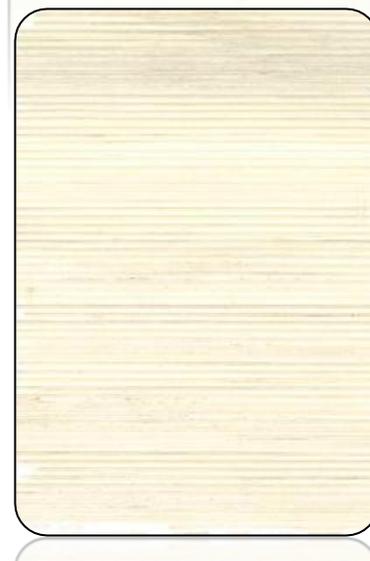
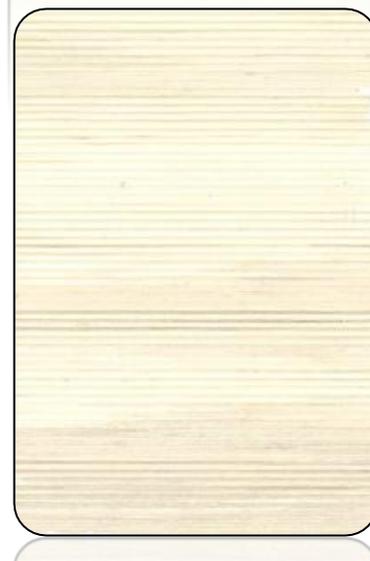
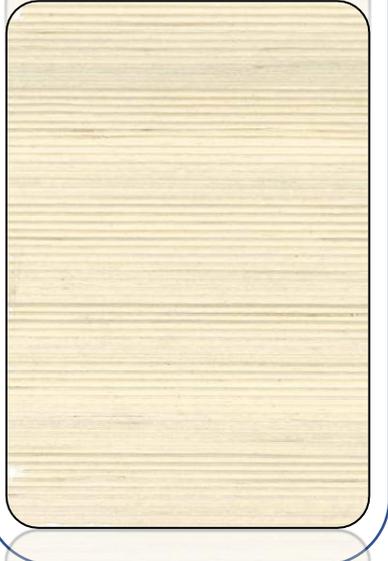
2400 hrs

3000 hrs

Accoya SMOOTH



Accoya ANTI-SLIP MILLED



4. ROSEWOOD

START

600 hrs

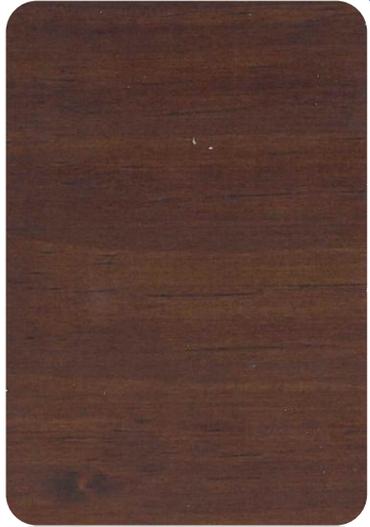
1200 hrs

1800 hrs

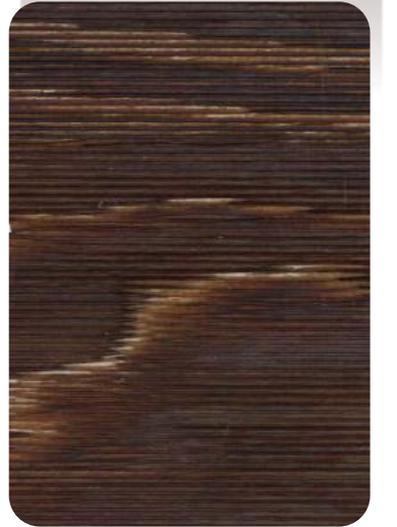
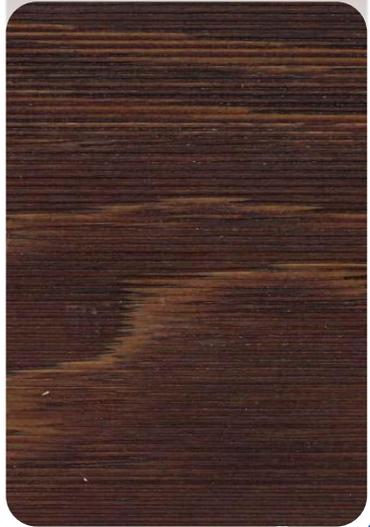
2400 hrs

3000 hrs

Accoya SMOOTH



Accoya ANTI-SLIP MILLED



5. AGAVE

START

600 hrs

1200 hrs

1800 hrs

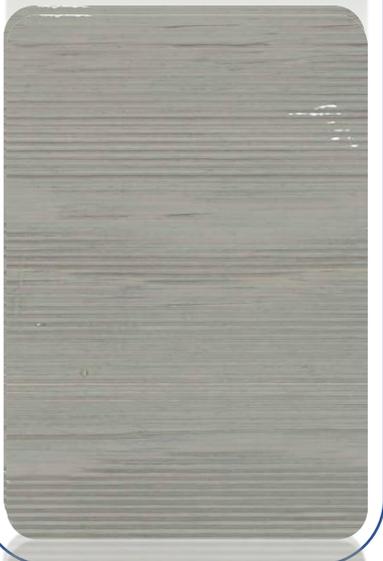
2400 hrs

3000 hrs

Accoya SMOOTH



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6. SLATE

START

600 hrs

1200 hrs

1800 hrs

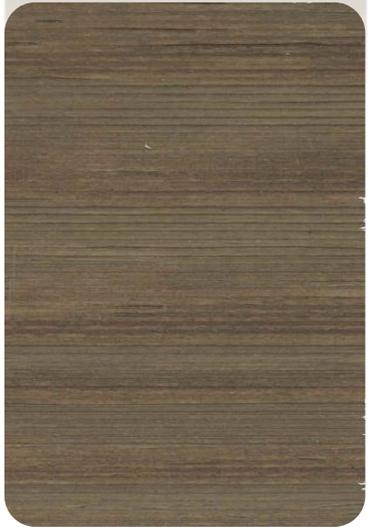
2400 hrs

3000 hrs

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7. TEAK

START

600 hrs

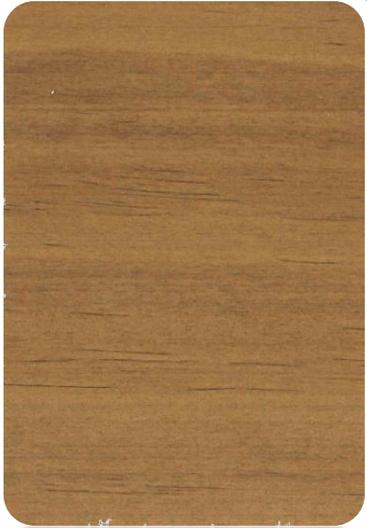
1200 hrs

1800 hrs

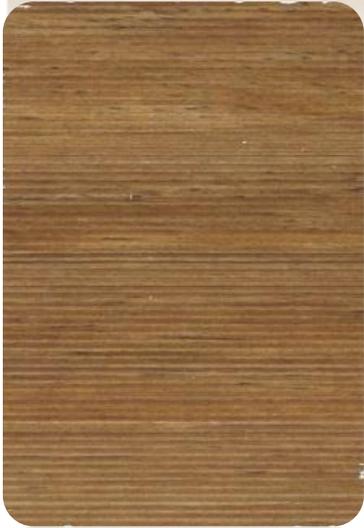
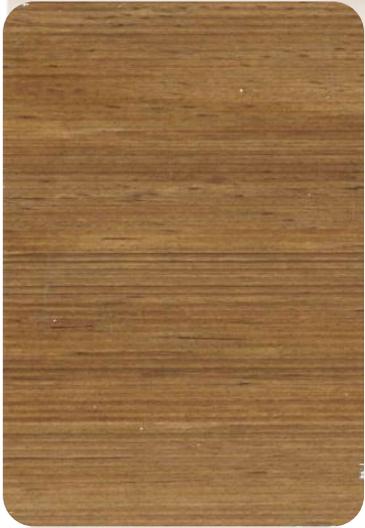
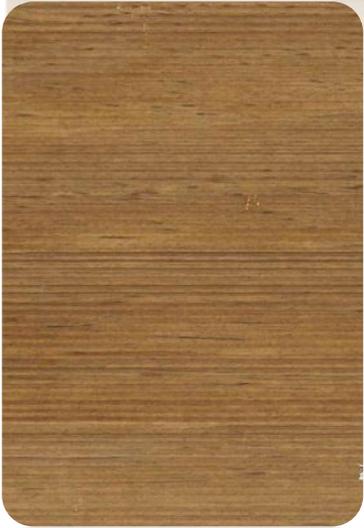
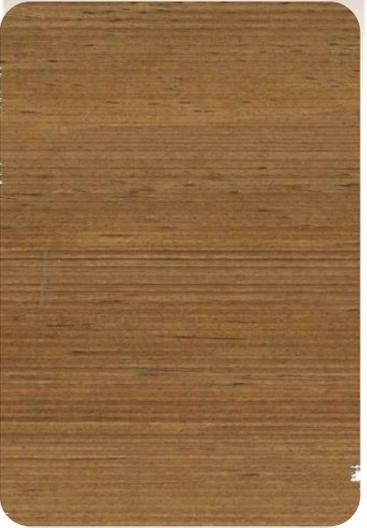
2400 hrs

3000 hrs

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8. WENGE'

START

600 hrs

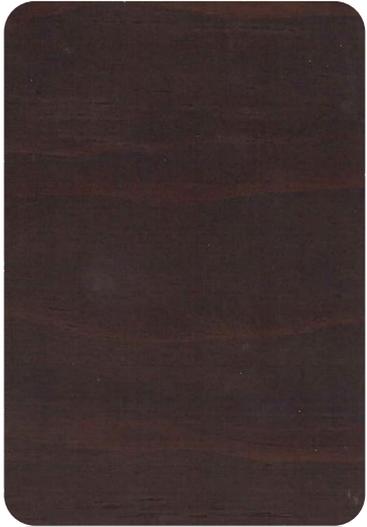
1200 hrs

1800 hrs

2400 hrs

3000 hrs

Accoya SMOOTH



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