

*

.

()

.

.

:

()

(1) Edward Luttwak

...

(1)

- : () 238 -¹
.: -
51 . . . :

(1)



:(1)

-1

-2

-3

-1

-2

(2)

-3

-1

(3) (graffiti.)

()

-2

() : (Fake) "

-3

(4) "



:() .[] : -
:" ".1

False Fake ()

unoriginal Impersonator :

:" ".2

Counterfeiter Simulation

:() :

imitation faux artificial

-1 ... reproduction ()

" -2)

(...

" -3

:"

:/ -4 (Faux)

"

."

(Faux)

³ - welovepainting.wordpress.com

⁴ - Edward Lucie-Smith, The Thames and Hudson Dictionary of, **ART TERMS**, Thames and Hudson Ltd, London, 1984, s79

() (5) ... : -5
 : " (Simulation) :

(9)

"

(6).

(10) "

()

:" "

11

(7)

(Simulation :) :

"

(12) "

:

(8)

() « » «

⁹ - <http://www.karim-lwaili.com/mag/01/aljamal.htm>
 393-392 3 : -¹⁰

159 .1 1974

1981

)-¹¹

15

150

⁵ - <http://www.almaany.com> (قاموس المعاني)⁶ - <http://computersimulation.boardeducation.net/t69-topic>⁷ - المعجم الوسيط (ejabat.google.com)¹² - بشير زهدي ، المزيف في الفن، الموسوعة العربية، المجلد الثامن عشر، التربية والفنون، العمارة و الفنون التشكيلية والزخرفية، ص 480⁸ - ويكيبيديا الموسوعة الحرة. /ar.wikipedia.org/wiki محاكاة

(13)

(3)



:(3)

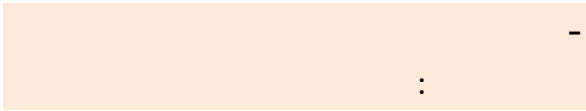
(2)



(2)

)

.(



:

(William Morris)

()

()

(Faulkner & Co.)

(16)

(14)

(John Ruskin)

(17)

Gottfried 1852
Wissenschaft (1979-1803) Semper
() industrie und Kunst

(15)

1851

" :

(18) "

(Mass Production)

(19)

¹⁶ - John Heskett, **Industrial Design**, Thames and Hudson Ltd, London, 1980, reprinted 1995

¹⁷ - مرجع السابق (ص 17 **BAUHAUS**...).

¹⁸ - reaper 64. scc-net.rutgers.edu/journals/index.php/jrul/. 3013

¹⁹ - د. مصطفى أحمد، التصميم الداخلي فن. صناعة، دار الفكر العربي، القاهرة 2001. ص 19

¹⁴ - V.M.Lapugnani, **Encyclopadia of 20TH- Century Architecture**, General Editor Verlag Gerd Hatje, Stuttgart, 1983. (Great Britain: Taylor & Francis, 2006). s. 35

¹⁵ - Thames and Hudson Ltd, Frank Whitford, **BAUHAUS**, s16 London, 1984, reprinted 1991
Thames and Hudson Ltd, Frank Whitford, **BAUHAUS**, s16 London, 1984, reprinted 1991

Walter Gropius

(1933-1919) **Bauhaus**

(20)

(Quantitative industrial

production)

(gutta percha)

De

() **Stijl**

constructivism

(21)

Ecole des

)

Beaux-Arts

(
(23)

(22)

()

Weimar

1910 - 1890 Art Nouveau

(Georg Mueche)

(versuchshaus)

(Am Horn)

Industrial

. 1923

) (Bakelite)

wood

.19

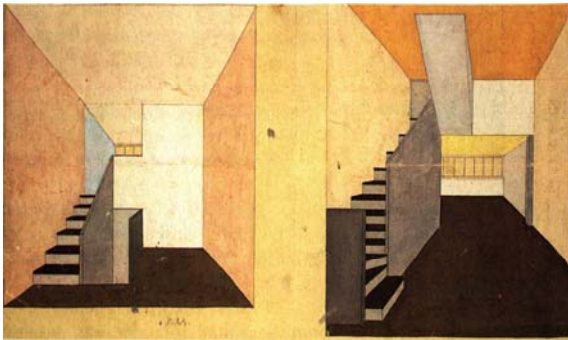
(5) (3)

²⁰ - welovepainting.wordpress.com

²¹ - مرجع سابق (**Industrial Design**)، ص 18-27 بتصرف

²² - AnneMassey, **Interior Design of the 20TH- Century** (London :thamesand Hudson ltd,1990.s31,32

23 - المرجع السابق (**Interior Design**)...



Hinnerk Scheper : (6)

(23) 1930

()

(Minimal)

(24)



(4)

:(4)

Weimar

(25)



:(5)

() Bakelite

nimrodplastics.com.au

(1897-1957) Hinnerk Scheper

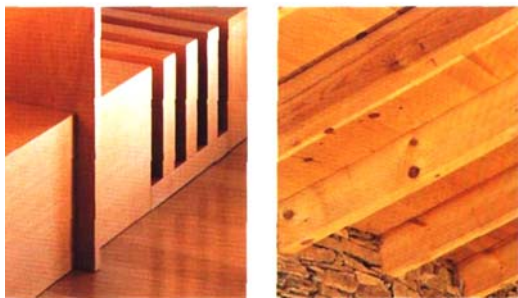
Bauhaus

Weimar

Dessau

(7)

(27)



:(7)

(28)

(6)

(26)

²⁷- practically **MINIMAL** (inspirational ideas for twenty-first century living) Thames & Hudson, United Kingdom, London, 2000, p. 45

²⁸(...ص176 **MINIMAL** - practically المرجع السابق)

(...frank whitford, **BAUHAUS** ,) مرجع سابق 23 - 24
²⁶ - Frank Whitford, **BAUHAUS**, Thames and Hudson Ltd, London, Reprinted 1991. S. 173

(29)

1950
1960

170 (31)

1964

(Claes Oldenburg)

.Pop Art

()

Vinyl

()

(30)

(American Decorating

()

Mary Derieux and

(1956) Guide)

174

"

Isabelle Stevenson

1960

,pop art

...".

... 163

(8) 174 .()

- 29

³¹ - Anne Massey, **Interior Design of the 20th century**, 1990 Tames and Hudson Ltd, London, reprinted 1994. S 170

1999

:)

174 - 163

- 30



:(8)

Pop art

cutedecision.com

Gestalt

(34)

(

)

(Richard Whitson)

(33) (32)

_ 34

2001

_ 32

310

_ 33

2007

144-143

2007

:

:
()
.1
.2
.3
.4

:
:
-2
)

(...
:
227 (35),

.1 : -
.2
.3
.4
.5
.6
.7 :
: -1

)
...(

:
:
.
()
.

1.) :
 (11) .()
 2. : -
 () :counterfeit Wood : -1
 (LAMINATE)) . wood
 .(Laser-treated wood
 (13)
). 3.
 (Wood plastic) Rattan Wood technology and wood industry
) 4. (36)
).()
 (10) (9) .()
 5.
 .Polyethylene ()

(17)



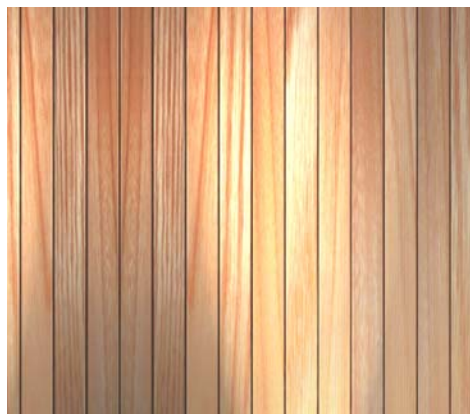
:(9)

archiexpo.de

wood) () Plywood
 MDF (multi-layer plates
 (Medium Density Fibreboard)
 (chipboard)

³⁶ - الموسوعة العربية، المجلد الثامن، الخشب، ص 821

(37) « ()



:(10)

colourunity.com

(38) «

2004

Epstein

(11) (39)



) Epstein :(11)

(

PVC

:

-

...

:

-1

-2

-3

-4

(36)

:

-

()

³⁷ - البكداش، فواز، تقنيات فن النحت، المطبعة الجديدة- دمشق، 1982-1981 ، ص 4

³⁸ - Horst Wilcke, **Stuck-und Gipsarbeiten** VEB Verlag für Bauwesen.Berlin 1972 , Lehrbuch

³⁹ - Gabriele Kaiser, **Das Palais Epstein**, Geschichte Restaurierung – Umbau, Hardcover 232 Seiten, ISBN 3-85409-433-7

(Resin)

(40)

(Hironori Yoshida)

(Palm leaves)

-

...

(woodplastic)

(13)

laser scanning

:

()

:

-1 Medium Density) MDF

(12-10 - 8 -6)

(Fibreboard

. Polyester resin

(13)



(13)

allbamboo.co.th

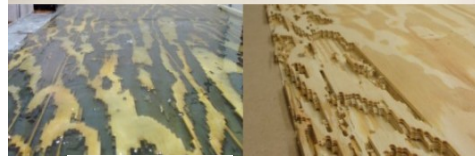
3

:

.1

(12)

(41)



(Wood plastics)

:(12)

Hironori Yoshida

:() Rattan

-

(14)



baihuiming.en.alibaba.com

40 - المواد الحديثة في الإكساءات الداخلي /واقع وأفانق/مجلة جامعة
دمشق للعلوم الهندسية،المجلد الخامس والعشرون-العدد الأول-2009
، د.أ.علي، د. ج. محفوظ.
nextnature.net - 41

: (14)
baihuiming.en.alibaba.com

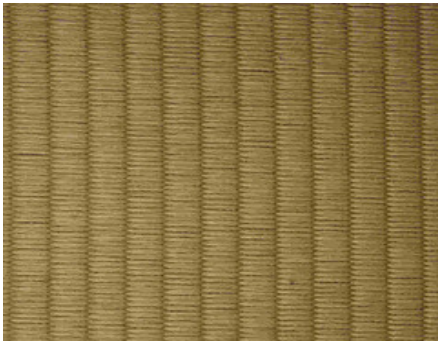
.() -3

.(16)

6 -1.2)

35 25 (

(43)



tatami :(16)

blog.kothea.com

Foam

() Polyethylene

() " "

(Polyethylene foam)

(42)

(15)



:(15)

allbamboo.co.th

Fake straw :() -4

tatami

()

(17)

tatami

2

⁴³ - blog.kothea.com

⁴² - huaxialong.en.alibaba.com

polystyrene

)

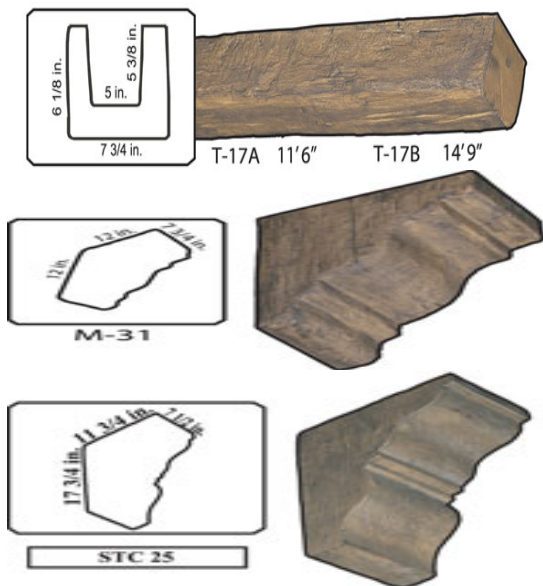
(...



:(17)

(Polyethylene foam)

(18)



:(18)

foamfactory.com

:() -

(19) (Wood Plastic Composite) WPC

epoxy resin or)

(other resin

.1

.2

.3

.4

.5

(44)

⁴⁴ - cherry102617.en.made-in-china.com

Herman Matthews

WPC

(Wood Plastic Composites)

Bauhaus

Walter Gropius

Weimarer

(45) "

:

:_____▪

(19)

()

Formica

(Thermosetts)

Bakelite

:WPC

Wood Plastic)

Thermoplastics

:_____▪

(Composites

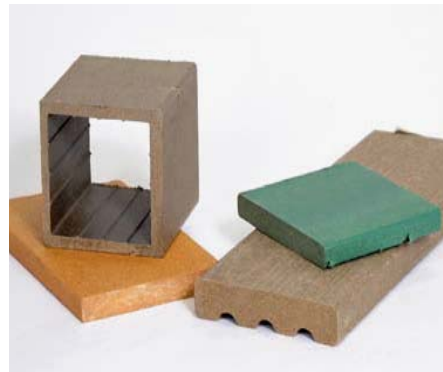
Resin Wood

95

50/50

60

(46)



(WPC)

:(19)

(47)

⁴⁵ - Sophie stybe, Cris van Uffelen, pure **Plastic-new Material, for Today's Architectur**-Verlagshaus Baun,2008. S 7.

⁴⁶ - Sophie stybe, Cris van Uffelen, pure **Plastic-new Material, for Today's Architectur**-Verlagshaus Baun,2008. S 7.

⁴⁷ - http://en.wikipedia.org/wiki/Wood-plastic_composite



WPC : (21)

49

WPC

(20)



:(20)

Formica : -

(Thermosetts)

Bakelite Formica

furniture123.co.uk

1912

Daniel J. O'Connor and)

(Herbert A. Faber

.Westinghouse

.1913 1

(Mica)

.()

:

(with melamine thermosetting resin)

(melamine)

()

Polyethylene

(21) (48)

fire-

(resistant water-proof)

(50)

0.7

:

-4

:

(20

-1

-2

244-122

-3

0.5

380-180

380-122

2

(23)

(51)



:(23)

esi.info

Axiom® by Formica

):

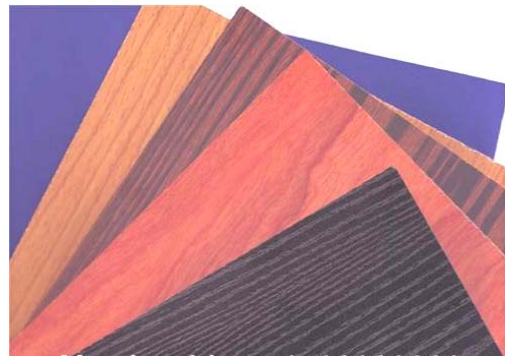
-2

(

) Frank Lloyd Wright

(

(22)



:(22)

aliexpress.com

MDF

:

((HPL) high pressure laminate)

•

compact grade laminate

•

⁵¹ - aliexpress.com

⁵⁰ - en.wikipedia.org/wiki/Formica_(plastic)

: ...

Edgar

Falling water

Kaufmann

()

.3

().

:

(52)

:Fake stone

(24)

:
:
:-



:(24)

(25)

⁵³ ..(

1935)

(26)



:(25)

:
) .1

.(
) .2

⁵² - en.wikipedia.org/wiki/Fallingwater

⁵³ - <http://www.toynuts.com/the-popular-frank-lloyd-wright-falling-water/>

10
 Portland
 polymer resin
 20
 cements



(54) : (26)

:(Stamped concrete)

1950
 .1970

COLOR HARDENER : .2

COLOR
 HARDENER

(27)



: .3
 (RELEASE AGENT)

:(27)

STAMPED : .4

.2

.3

()

.4

(28)

.5

(31)



.6

.7

)

(33) (

:(28)



benzconstruction.com

clear acrylic sealer :

.5

() :(30)

(29)

(55)



(31)



:(29)

baumgartencement.com



:(32)

:

-

:

-

(30)

.1

⁵⁵ - Interactive Developers S.A.R.L. Galaxy Center – Blvd. Camille Chamoun, Chiyah - Lebanon www.topcrete.com

: -) : -
 (-
) -
 (-
 () -
 (33) . () -
 () : -
 -1
 : -2
 ... 3 1

(57)»



(33):

(58)

) Siliceous sand : -3

() : -4

acrylic

fiberglas

(56)

epoxy resin

polymers

-5

⁵⁷ - المرجع السابق (البكداش، فواز، تقنيات فن النحت، ... ص 38
⁵⁸ - arabic.alibaba.com

⁵⁶ - www.alkhatib.com.nu



:(35)

fauxstonedepot.wordpress.com



:(36)

supplydog.com

(59)

: -

) -1

(

GFRC

(34)

(60)



() :(34)

(GFRC)

fauxstonedepot.com

: -2

Artificial Stone

(36) (35)

⁵⁹ -http://www.nps.gov/hps/tps/briefs/brief16.htm

⁶⁰ - rock-n-water.com



(38)

playlsi.com

:

()

-4

Polymer resins

(GFRC)

-3

(37)

:

(39)



(39)

(104)

Dekorrra Fake Rock

rocksfast.com



(38)

(61)

www.shutterstock.com - 112574861

(37)

shutterstock.com

⁶¹ - playlsi.com

Polyster

Resen

:
Alabaster Marble and Artificial

- -)

(

Silica

Quartz

(62) "

:
-1
(industrial solid panels made of acrylic)

) (CaCO₃)

Corian

Wilburn

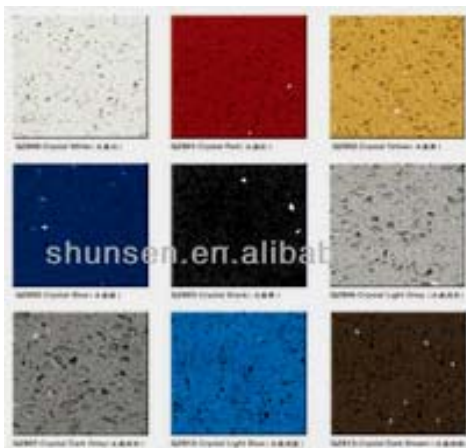
Staron

Wilson Art

Hanks

Avonayat

(41) .Vari-Core



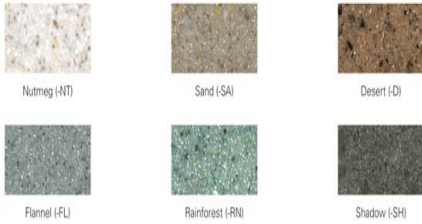
:(41)
alibaba.com

(63)

(Artificial marble fake) :

⁶² -<http://dc351.4shared.com/doc/9mM16HWC/preview.html>

⁶³ - من ويكيبيديا، الموسوعة الحرة
(<http://ar.wikipedia.org/wiki>)



:(43)

forresidentialpros.com
thomas-steele.com

:
(industrial solid surfaces of calcium carbonate)

()

(44) (64)



:(44)

amazon.com

- :
(resin) ■
- (Aluminum powder) ■
- (pigments) ■

(42)



:(42)

arabic.alibaba.com

- :
(Industrial solid surfaces of polyester)
(acrylic modify):
resin

(43)

⁶⁴ - من ويكيبيديا الموسوعة الحرة
<http://ar.wikipedia.org/wiki:>

(45)

65

The production process :

()

microfibers



:(45)

alibaba.com

) :

-3

polystyrol

(

.polyurethane

:

sanding

grinding ()

cleaning

()

Polyurethanes

. 2 / 3000

()

:

•

20/1

100/1

(66). (Ultrasuede Ecsaine Alcantara)

microfibers

(46)

polyamides

polyester

Nomex

Kevlar

nylon)

trogamide

(Polypropylen

<http://en.wikipedia.org/wiki/Microfiber> - 65 - 66

http://news.groz-beckert.com/pages/en_manufacture_and_potential_of_artificial_leather.php5

(47)



:(47)

www.Shtterstock.com

:

-

▪

:

:

•

-1

-2

-3

mothproof

-4

-5

(67) ...

(46)

...

⁶⁷- shoe-materials.com



:(46)

shoe-materials.com

•

•

▪

-1

-2

-3



:(48)

-4

(2007)

-5

-6

-7

-8

-



()

.(virtual material in interior design)

- .11 : .1
- 19 . 2001 .2
- 2007 : .12 310 2001
- : 393-392 3 : .3
- .2002- - .13 159 .1 1974
- / / .4
- .. 2009- - 480 .5
- 2112 .14 .6
- .821 () 21 1982-1981 -
- 1- Edward Lucie-Smith, The Thames and Hudson , Dictionary of , **ART TERMS** , Thames and Hudson Ltd ,London ,1984,s79 1981
- 2- <http://www.almaany.com> (قاموس المعاني) .7
- 3- V.M.Lapugnani, **Encyclopadia of 20TH- Century** , Architecture, General Editor Verlag Gerd Hatje, Stuttgart,1983. (Great Britain : Taylor & Francais, 2006).s .35 144-143
- thames and Hudson ltd, London ,1984 reprinted 1991,p16 4- frank whitford, **BAUHAUS** .8
- 5- John Heskett, **Industerial Design** , thames and Hudson ltd, London ,1980 reprinted 1995 :)
- 6- AnneMassey, **Interior Design of the20TH- Century**(London :thamesand Hudson ltd,1990.s31,32 173-163 1999
- 7- practically **MINIMAL** (inspirational ideas for twenty-first century living) Thames & Hudson, United Kingdom, London, 2000, p. 45 .9
- 8- Anne Massey, **Interior Design of the 20th century**,1990 Tames and Hudson Ltd, London,reprinted 1994. S 170 .2009-
- 9- Richard Weston, **Materials,Form and Architecture**,Lurance King Publishing, 2003.s.227 : () 238 .10
- ويكيبيديا، الموسوعة الحرة (الخشبة)الموقع : 10<http://ar.wikipedia.org/wiki> .
- 11- Horst Wilcke, **Stuck-und Gipsarbeiten** VEB Verlag fur Bauwesen. Berlin 1972 , Lehrbuch 51

-
- 12- Gabriele Kaiser, **Das Palais Epstein**, Geschichte Restaurierung – Umbau, Hardcover 232 Seiten, ISBN 3-85409-433-7
 - 13- Sophie stybe, Cris van Uffelen, pure **Plastic-new Material, for Today's Architectur**-Verlagshaus Baun,2008. S 7.

بعض مواقع الانترنت:

- 1-[http://computersimulation .boardeducation.net/t69-topic](http://computersimulation.boardeducation.net/t69-topic)
- 2 - welovepainting.wordpress.com
- 3-<http://www.albayan.ae/science-today/studies-research /2012-03-11-1.1608957>
- 4- worldwidestore.com
- 5- welovepainting.wordpress.com
- 6- nextnature.net
- 7- huaxialong.en.alibaba.com
- 8- cherry102617.en.made-in-china.com
- 9- greeninformation.co.uk
- 10- blog.kothea.com
- 11- en.wikipedia.org/wiki/Fallingwa
- 12-<http://www.toynuts.com/the-popular-frank-lloyd-wright-falling-water/>
- 13- arabic.alibaba.com
- 14- startimes.com
- 15- <http://www.nps.gov/hps/tps/briefs/brief16.htm>
- 16- <http://dc351.4shared.com/doc/9mMl6HWC/preiew.html>
- 17-<http://www.teonline.com/knowledge-centre/manufacturing-process-rayon.html>
- 18-http://en.wikipedia.org/wiki/Synthetic_fibe
- 19-<http://www.madehow.com/Volume-3/Fake-Fur.html#b> *

rocksfast.com