

therma- wall

a thermo reactive
wallpaper.



therma- wall

a thermo informative
wallpaper.

by Vincent Jacquier & Guilhem Moreau
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introduction

In the context of urban lifestyle, people's massive consumption habits influence the way they uses central heating in their domestic environment. The current rise of the earth global warming phenomena in the scene today has highlighted the consequences of excessive consumption behaviour in the current state of our planet. A non adjusted consumption of domestic heating has several degrees of influences, on your physiology, your stress level, your energy, your body in general. The comfort is a matter of temperature today is something to be challenged, to adjust our consumption and therefore we found a need for tool to help evaluate our consumption in our everyday life. It's matter of lifestyle starting from the conception of the architecture to the use of specific materials, choosen not only for their isolation characteristic but also the short terms and long term consequence of their use.

The purpose of thermawall is to give the people living in a space a sense of their thermic energy consumption for their comfort and to push peoples to adjust their behavior in relation to the graphic they would like to see screening on their walls.

The ink used for the wallpapers are set to match optimal temperature not only during the summer but also during the other seasons. Those ink reacts quite quickly therefore they also are a fully interactive materials by transferring your own heat to the paper you can make the play with the apparition of the patterns.

The patterns have been designed using the feng shui as a starting point. We brought each material to a specific form, water, fire, wood, air, earth. The purpose is to confront the different materials between one another to bring a sense a nature back in the domestic environment, and bringing through those confrontation, alternative development of the philosophical theories around the nature cycles and behaviors.

Project started in the frame of a workshop directed by Rachel Wingfield from the Central Saint Martins of London about reactive patterns and ornamentation organized by the research project "variable environment" at ecal in november 2006.

Realisation & production:
Vincent Jaquier and Gauthier Monneau
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Explanations



°C

▲ ▲ ▲
18 23 28

Each layer is calibrated to let the next one appear at a designated threshold point. The threshold points have been calculated to work fluently at optimal temperature considering the fluctuation in a close environment exposed to a temperate climate with seasonal fluctuations. 18°C correspond to an optimal temperature for the physiology keeping your immune active. 23°C is a warm environment, your organism is less solicited. It also matches spring and fall transition between winter and summer temperature. 28°C matches a warm summer average temperature and an overheated environment during heating seasons.

The ink used for printing are implemented with leuco dyes capsule set to disappear at custom threshold. The papers are printed layers on top of layers through an etched process of layers and ink mask to display the desired effect.



We can find food in any closed environment a specific climate defined by the sources of cold and heat in the room or building. Isolation and fluid circulation study in the conception of the building are the sources of cold fluxes. They are compensated by the artificial source of heat but also by the natural ones such as losses effects of the windows caused by the sun. The temperature variation of the internal climate have same to study the temperature fluctuations on the surface of the wall. The population living in the space has also been taken in consideration has a source of heat. The more people are present in the room, the more the internal climate is influenced by them. Thermoset enfuses those effects by making them physically visible on the wall the room.

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dancing flowers



Inspired of the event this series' purpose is to bring bring a piece of harmony in relaxation in contrast of the outside world's aggressions. It's set to react to medium temperature variations that suit perfectly to rooms such as the living room, the bed room even the home office.

Setting:
Low threshold 18°C
High threshold 23°C
Overheat 28°C

Scale:
1:20

05









cloud maze



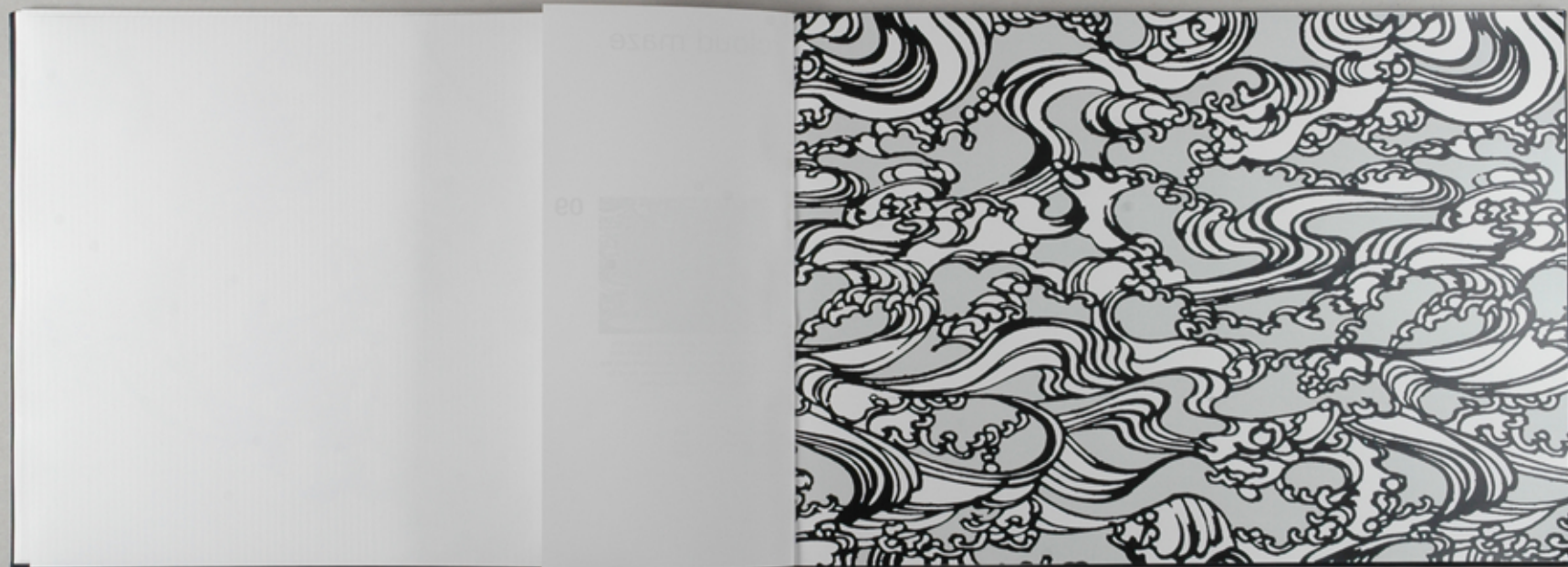
The goal of feng shui guidelines is to locate and orient dwellings, possessions, land and landscaping, etc., so as to be attuned with the flow of qi. Location is considered to be of far greater significance than orientation.

Setting:
Low threshold 18°C
High threshold 22°C
Overhead 28°C

Scale:
1:2

09









take-off



Inspired of the orient this series's purpose is to bring bring a piece of harmony in relaxation in contrast of the outside world's aggressions. It's set to react to medium temperature variations that suit perfectly to rooms such as the living room, the bed room even the home office.

Setting
Low threshold 18°C
High threshold 23°C
Overhead 26°C

Scale:
1:20

13



hanging on flowers



Nature is, what is and does, and what health consists of vary and conflict. It is not generally understood as physical, but it is neither meant to be metaphorical nor fictionalistic. It is the virtual energy and force that flows all around.

Setting:
Low threshold 18°C
High threshold 23°C
Overheat 28°C

Scale:
1:2

17



spinning fishes



The goal of feng shui guidelines is to locate and orient dwellings, possessions, land and landscaping, etc., so as to be attuned with the flow of qi. Location is considered to be of far greater significance than orientation.

Setting:
Low threshold 18°C
High threshold 23°C
Overhead 28°C

Scale:
1:15

21



dropping rain



25

Inspired of the street this series's purpose is to bring bring a piece of harmony in relaxation in contrast of the outside world aggressions. It's set to react to medium temperature variations that suit perfectly to rooms such as the living room, the bed room even the home office.

Setting
Low threshold 18°C
High threshold 22°C
Overheat 28°C

Scale:
1:15



flower worms

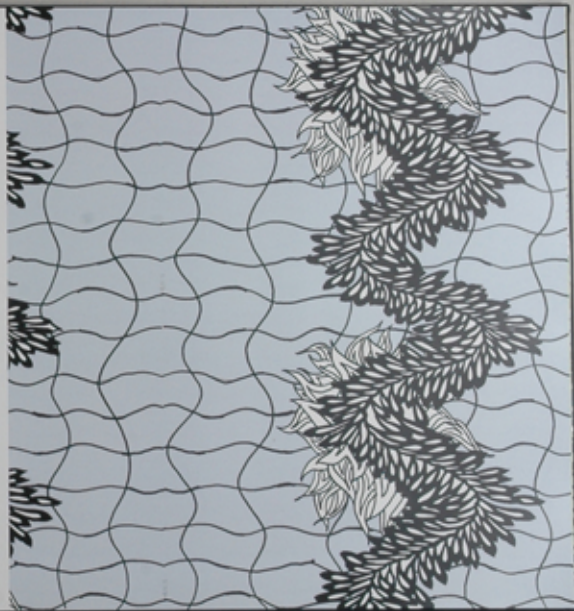


The goal of Feng shui guidelines is to harmonize and orient dwellings, possessions, land and landscaping, etc., so as to be attuned with the flow of qi. Location is considered to be of far greater significance than orientation.

Setting:
Low threshold 18°C
High threshold 23°C
Overheat 28°C

Scale:
1:15

29



lotus blossom



33

Tissue is, what it is and does, and what
tissue consists of vary and conflict. It is not
generally understood as physical, but it is nei-
ther meant to be metaphorical nor functiona-
lity. It is the virtual energy and force that flows
all around.

Setting:
Low threshold 18°C
High threshold 22°C
Overhead 28°C

Scale:
1:20









wave nest



The goal of long shur guidelines is to locate and orient dwellings, possessions, land and landscaping, etc., so as to be attuned with the flow of qi. Location is considered to be of far greater significance than orientation.

Setting:
Low threshold 18°C
High threshold 22°C
Overhead 28°C

Scale:
1:20

37



tide landscape

41



Inspired of the orient this series's purpose is to bring bring a piece of harmony in relaxation in contrast of the outside world aggressions. It's set to react to medium temperature variations that suit perfectly to rooms such as the living room, the bed room even the home office.

Setting:
Low threshold 18°C
High threshold 23°C
Overhead 28°C
Scale:
1/20



swinging flowers

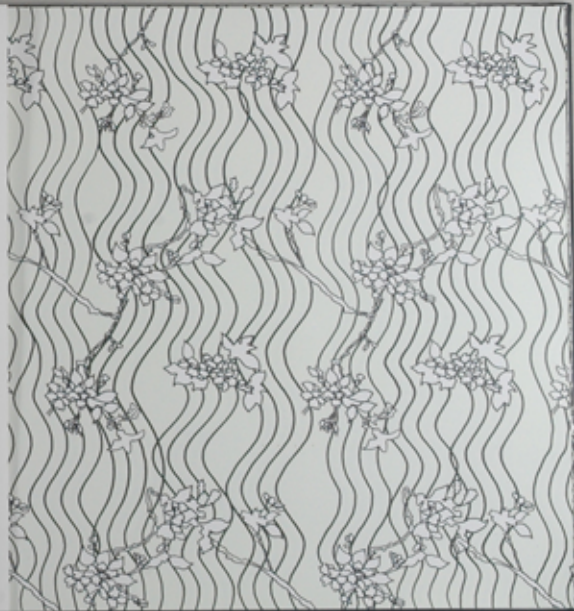


Nature is, what is it and down, and what
breath consists of very and conflict. It is not
generally understood as physical, but it is nei-
ther meant to be metaphorical nor rationalis-
tic. It is the virtual energy and force that flows
all around.

Setting:
Low threshold 18°C
High threshold 23°C
Overheat 28°C

Scale:
1:15

45



lotus rain

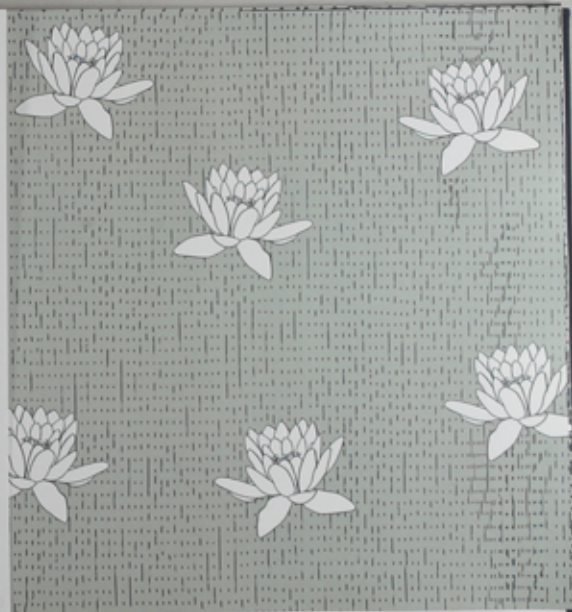


The goal of feng shui guidelines is to locate and orient dwellings, possessions, land and landscaping, etc., so as to be attuned with the flow of qi. Location is considered to be of far greater significance than orientation.

Setting:
Low threshold 18°C
High threshold 22°C
Overheat 28°C

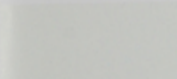
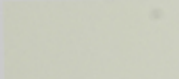
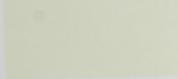
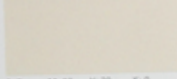
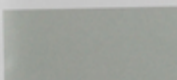
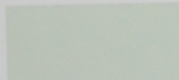
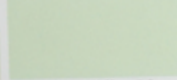
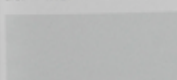
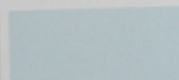
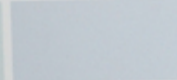
Scale:
1:2

49



nuancier

50

			
C:7 M:4 Y:10 K:0	C:4 M:1 Y:18 K:0	C:7 M:8 Y:21 K:0	C:7 M:18 Y:20 K:0
			
C:31 M:21 Y:30 K:0	C:17 M:8 Y:20 K:100	C:15 M:5 Y:30 K:0	C:20 M:2 Y:30 K:0
			
C:16 M:13 Y:12 K:0	C:20 M:7 Y:7 K:0	C:20 M:10 Y:11 K:0	C:21 M:14 Y:7 K:0



by Vincent Jacques & Guilhem Monesi
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