

Dancing Lotus



EXPO 2010
SHANGHAI CHINA

Macao Pavilion, the 2010 Shanghai Expo
Macao- Spirit of Cultures, Essences of Harmony

2010 上海世界博覽會 —— 澳門館
“澳門 - 文化交融、和諧體現”

DANCING LOTUS

舞蓮

Introduction

The design of the Macao Pavilion for the 2010 Shanghai Expo, Macao—Spirit of Cultures, Essences of Harmony, explores and explores the development and new physiognomy of Macao's diverse economy and culture, reveals the social “Spirit of Culture, Essences of Harmony” inherited from Macao's tradition of east and west cultural exchanges. Macao is a place where tradition of cultural exchanges is an embodiment of harmony. And most important of all, this is an ever-revitalizing wonderland which promises us a bright future.

Over 400 years of integration of oriental, western culture, the cultural and economic interactions in Macao run through its city development. Now a day, Macao becomes a communicating platform for international and Chinese traders. Macao Pavilion for the 2010 Shanghai Expo will represent the image of future Macao, as an ever-revitalizing wonderland to promise us a brighter future.



Concept – Dancing Lotus

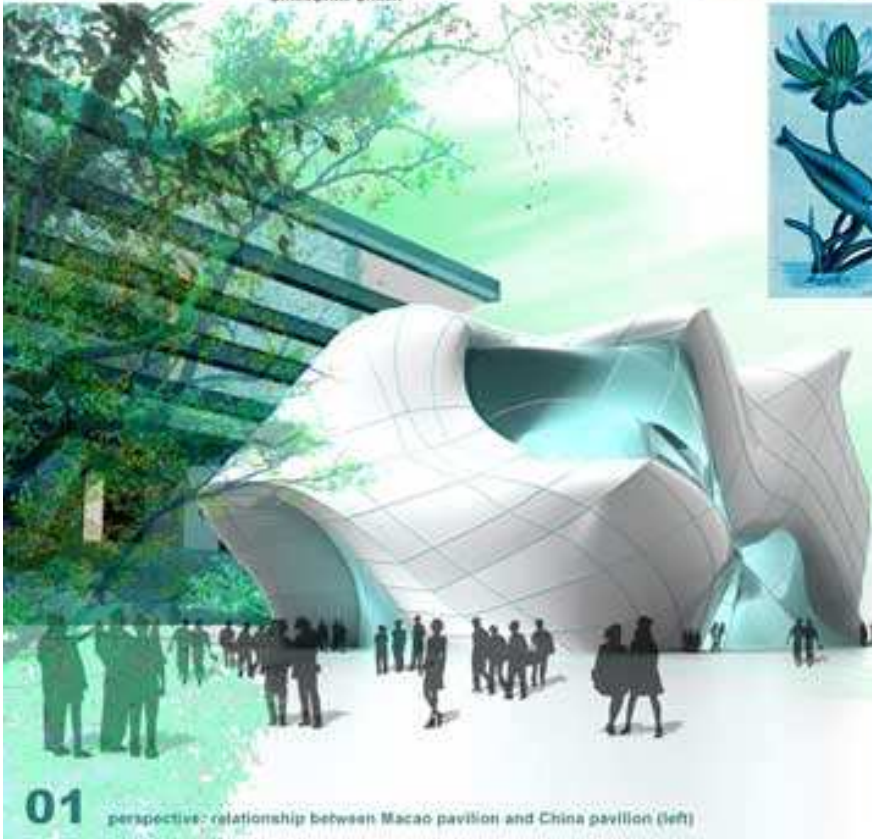
Lotus—flower represents Macao as its flag. The Chinese also revere the sacred lotus as a symbol of purity and elegance, and it is a common motif in ancient Chinese poetry. A famous statement about the lotus symbolism in Chinese culture is made by Confucian scholar Zhai Danyin: I love the lotus because, while growing from mud, it is untainted.

Forming – Minimal Surface

In mathematics, a minimal surface is a surface with a mean curvature of zero. These include soap bubbles, but are not restricted to surfaces; a minimal area subject to various constraints. Each unit of minimal surface can be combined side by side by different ways, in our project, the surfaces and spaces are attached and scaled in order to improve the quality of space.

Spatial Idea

Open Space and Enveloped Space combine together by the logic of minimal surface. This kind of minimal surface divides the space into two coherent spaces in this project, different material (transparent and solid) offer three spaces (different properties to fulfil different exhibition requirement).



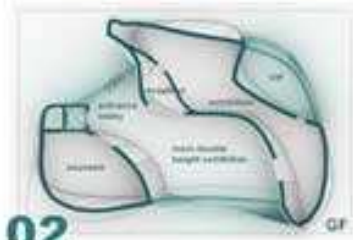
项目 2010 上海世界博覽會 —— 澳門館，澳門，文化交融，和諧體現。此設計展現澳門經濟多元發展與文化交融的風采，展現澳門傳統文化與經濟的融合與新面貌。展現澳門“東融西進，和諧為本”的社會文化。寓意和諧，澳門將營造一個經濟與文化融合的繁華，以此展現新澳門的繁榮與發展。

理念——舞蓮 舞蓮——蓮花代表澳門。中國人也崇敬聖潔的蓮花作為純潔與優雅的象徵，且是中國古典詩詞中常見的一種意象。孔子在論語中有一段關於蓮花的著名論述，他說：愛蓮花，因為它出淤泥而不染。

形成——極小表面 在數學中，極小表面是指平均曲率為零的表面。這包括肥皂泡，但不限於表面；在各種約束條件下，極小表面可以形成各種形狀。在本項目中，極小表面可以通過不同的方式組合，以改善空間的質量。

空間構思 開放空間和封閉空間通過極小表面的邏輯結合在一起。在本文中，這種極小表面將空間分為兩個相連的空間。在本文中，不同的材料（透明和固體）提供了三種空間（具有不同的展覽要求）。

01 perspective: relationship between Macao pavilion and China pavilion (left)



02

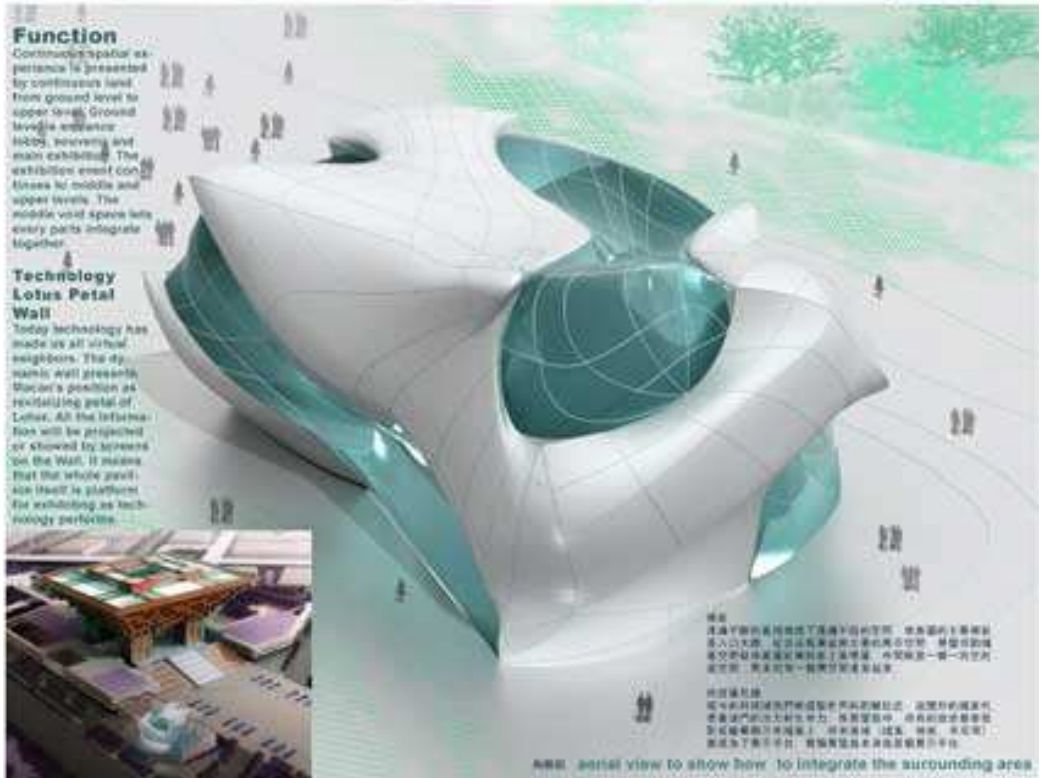


Function

Continuous spatial experience is presented by continuous level from ground level to upper level. Ground level entrance lobby, screening and main exhibition. The exhibition event continues to middle and upper levels. The middle void space lets every parts integrate together.

Technology Lotus Petal Wall

Today technology has made us all virtual neighbors. The dynamic wall presents the user's position as revolving petal of Lotus. All the information will be projected or showed by screen on the Wall. It means that the whole pavilion itself is platform for exhibiting as technology performs.



02
 03
 04
 05
 06
 07
 08
 09
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100

AWB, aerial view to show how to integrate the surrounding area



Iso Section

Construction Process

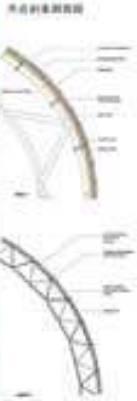
The structural system is developed together with the way of construction to serve the flexible geometrical form. The steel framework is supported by horizontal and vertical system. The benefit of this system is easy construction and repair (related). The characteristics of mobile construction can be moved to different locations easily.



03-03-01 Interior: central courtyard (realation)

03-03-02 Interior: central courtyard / multi-media exhibition

Cladding Sectional Detail



03

section: through middle double height exhibition hall
03-03-03

section: through main stair
03-03-04

elevation: main entrance side
03-03-05

Source: www.gov.mo