

# 陶朱隱園住宅大樓 結構工程設計

張敬禮 King-Le Chang

傑聯國際工程顧問

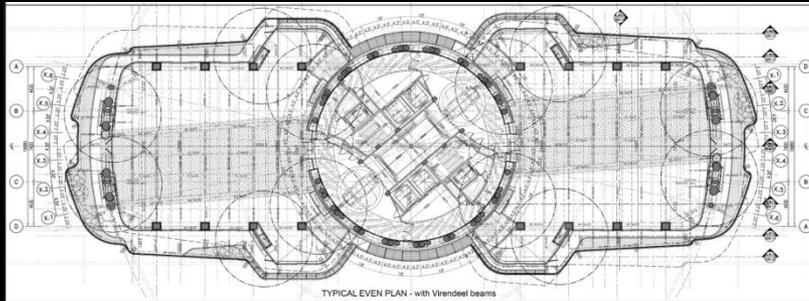
KING-LE CHANG & ASSOCIATES

KINC

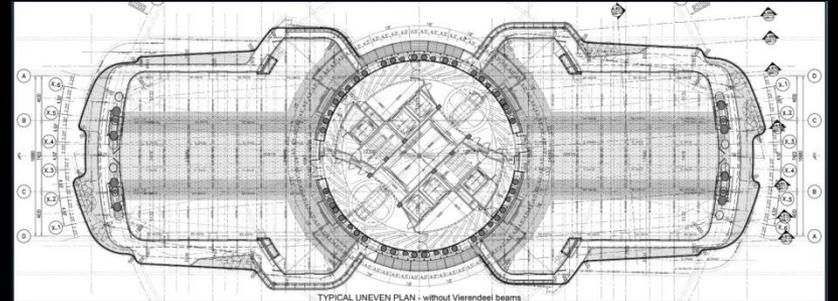
TES

# 建築設計

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雙數樓層 (有邊柱)



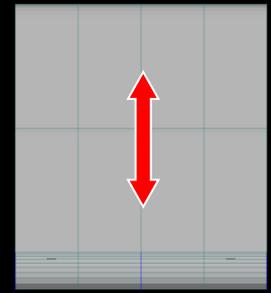
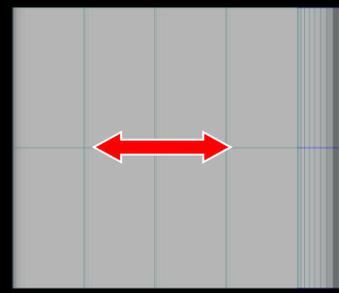
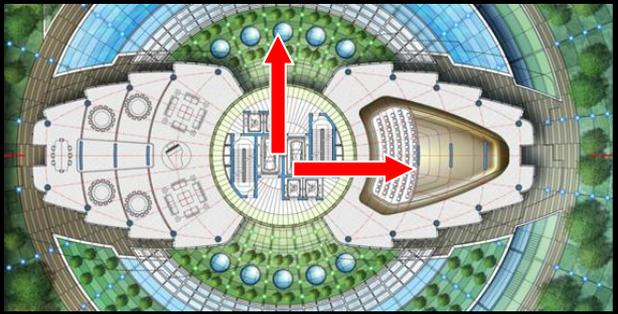
單數樓層 (無邊柱)

## 結構設計目標

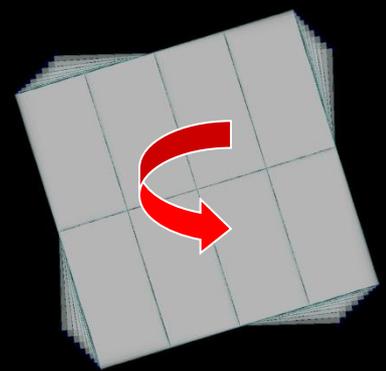
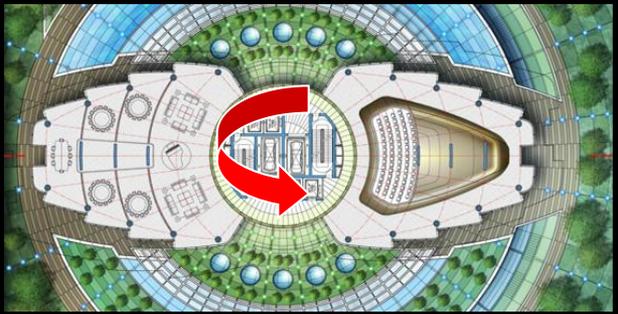
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- 結構基本振態：先平移 (Translation) 再扭轉 (Rotation)

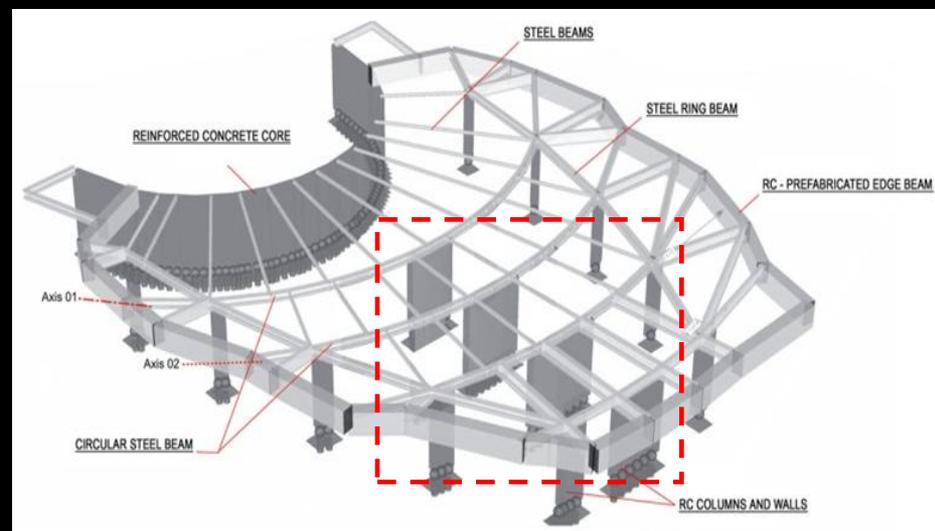
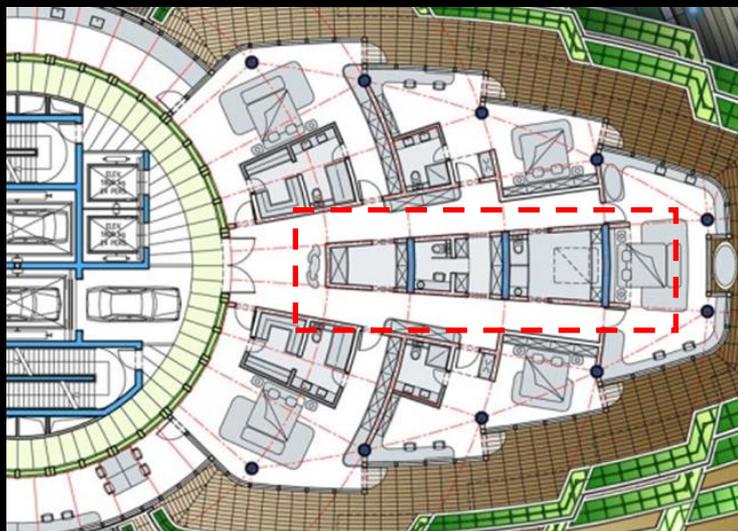
Translation



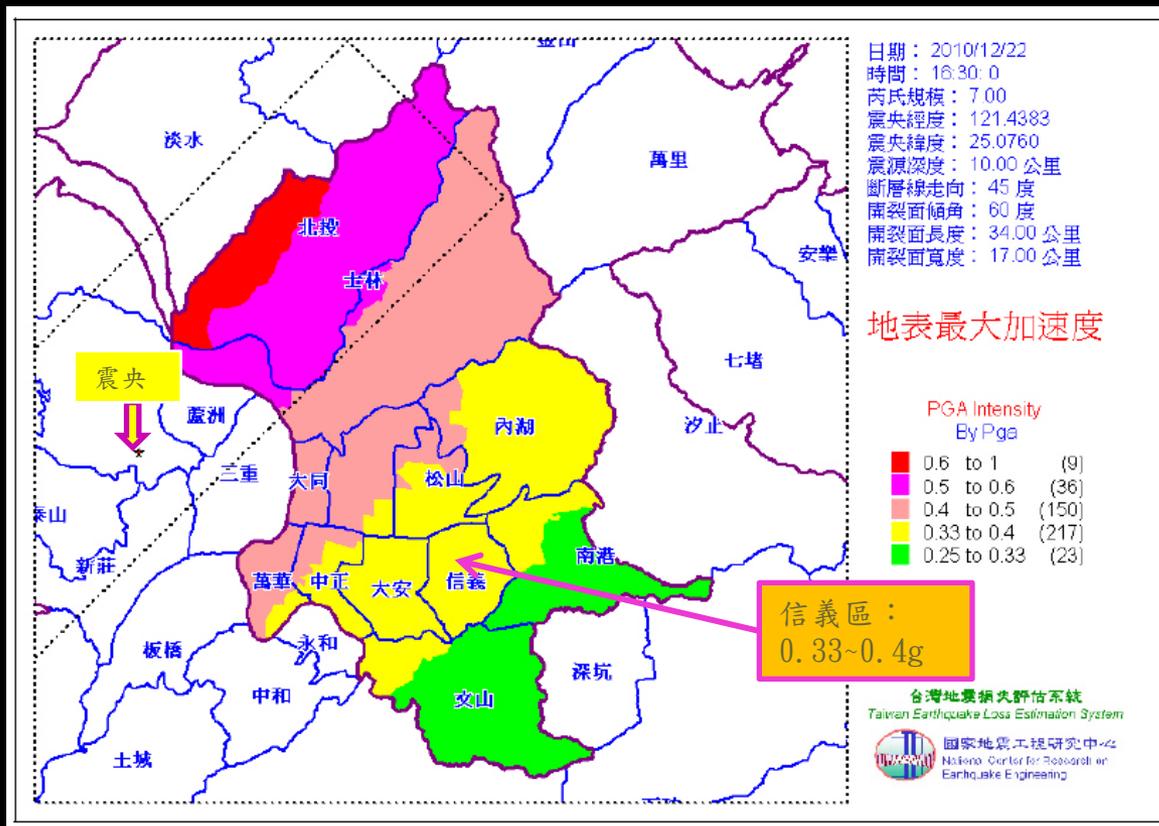
Rotation



- 室內無柱之使用空間，且淨高至少3公尺。



■ 七級地震 (PGA=0.40g) 結構保持彈性



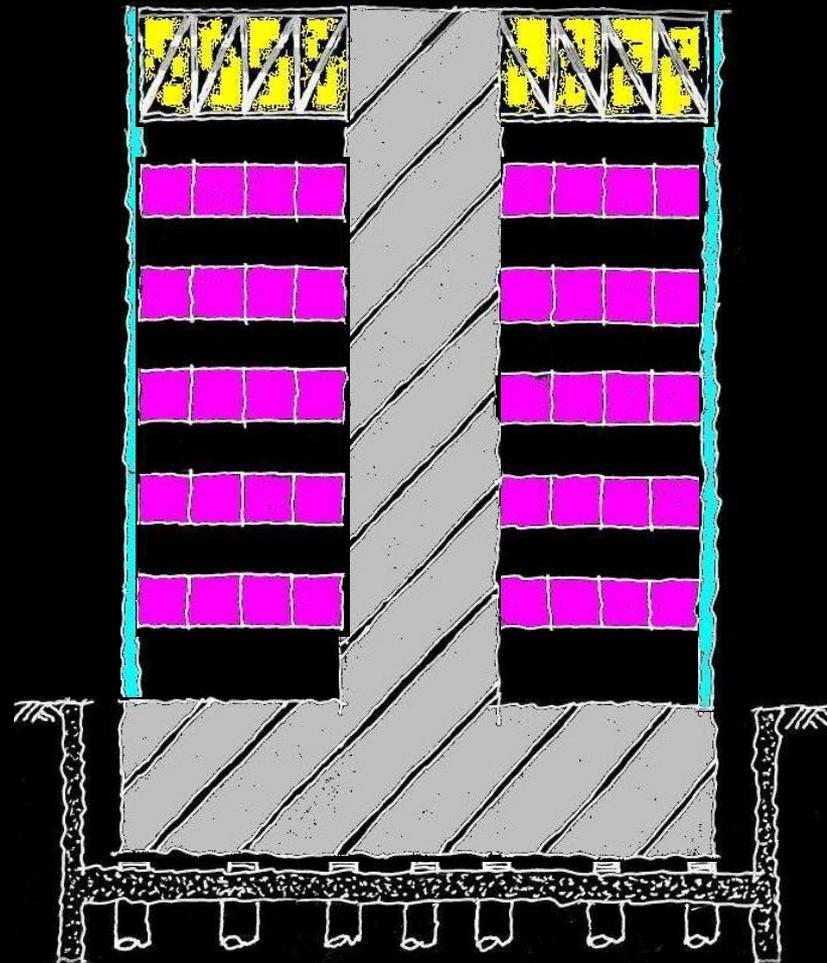
學術論文：

山腳斷層發生芮氏規模7.0之最大地表加速度模擬分析結果

# 結構系統

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■ 上部結構系統



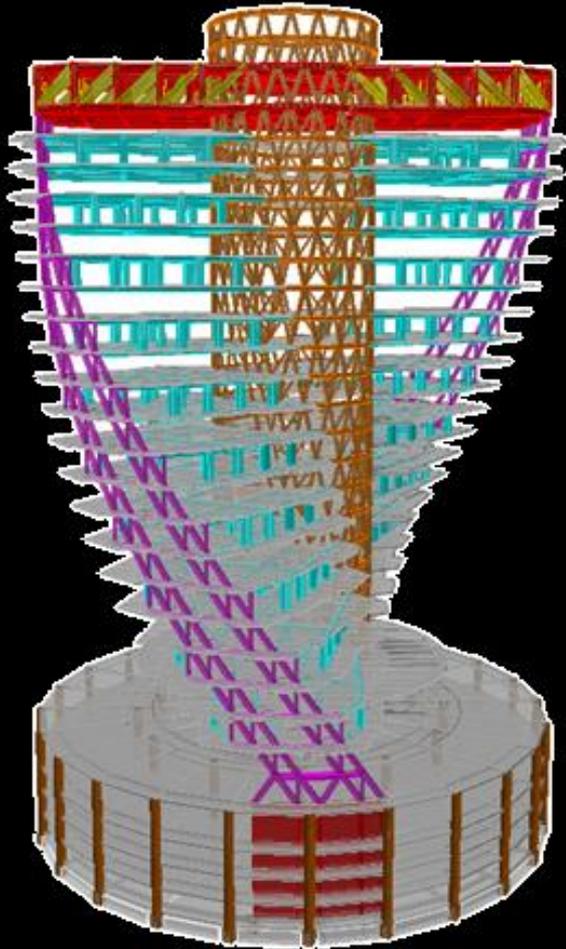
STEEL CORE

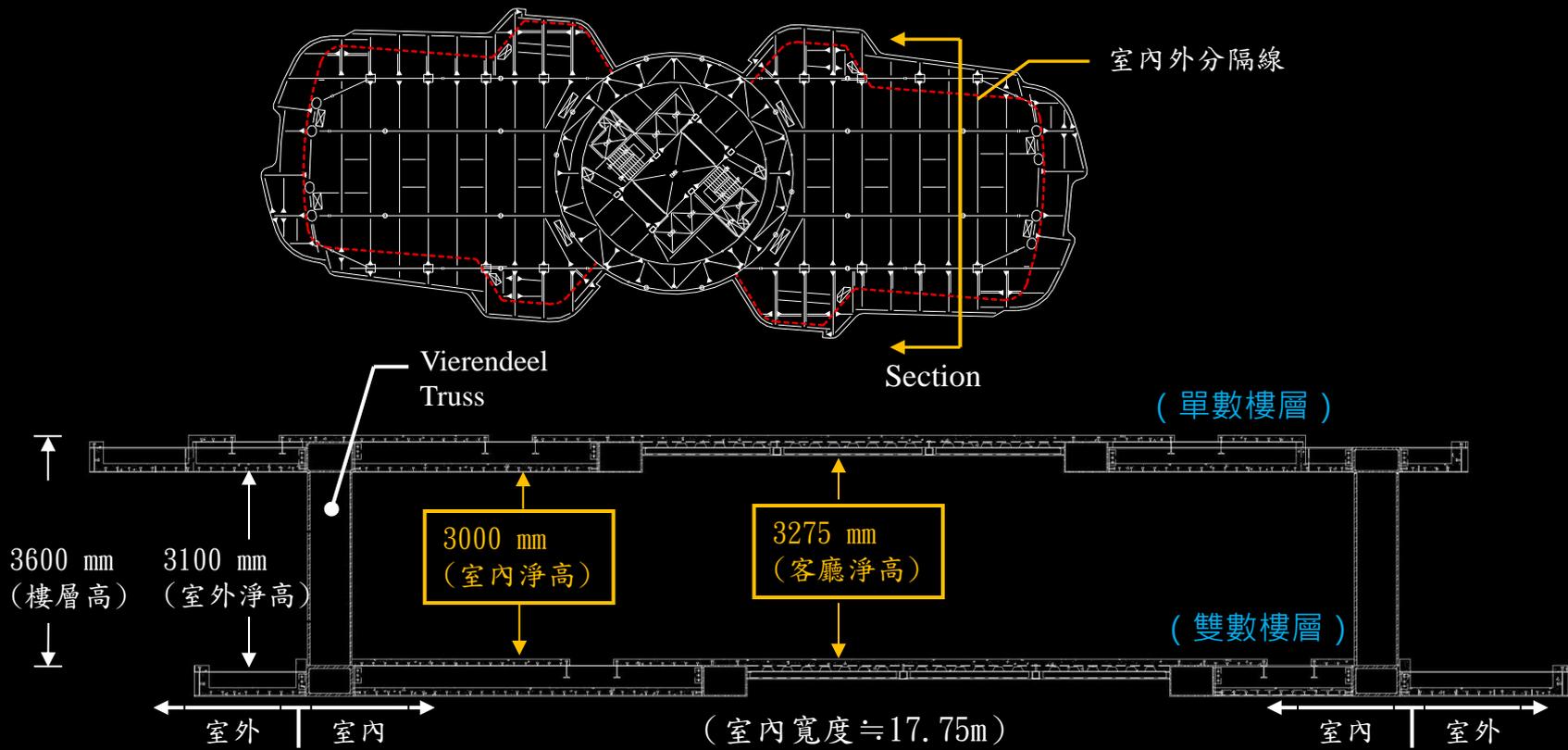
MEGA COLUMN

VIERENDEEL TRUSS

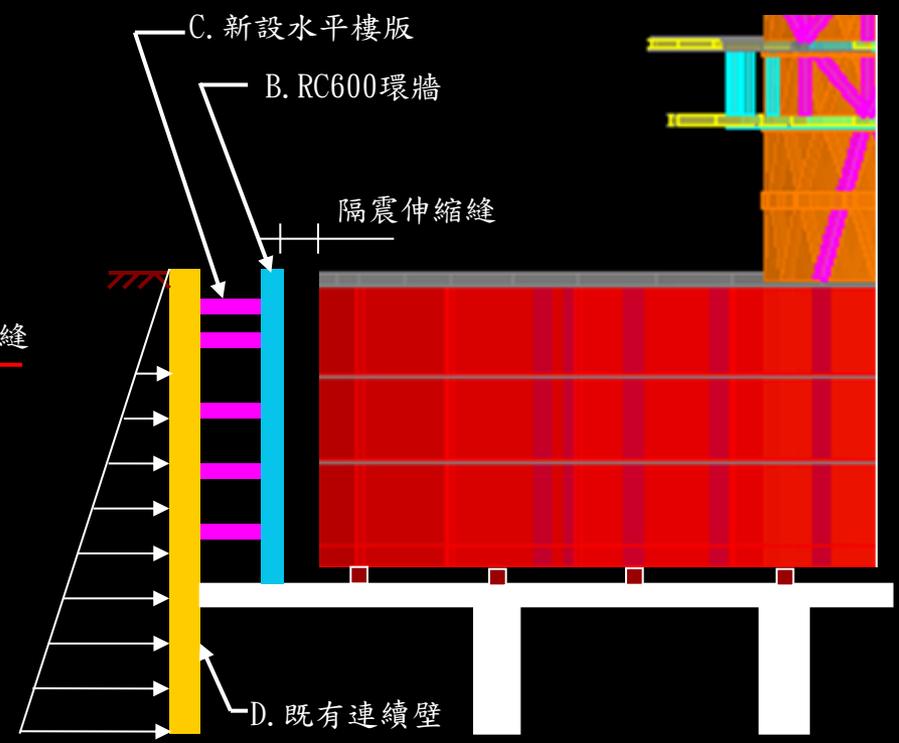
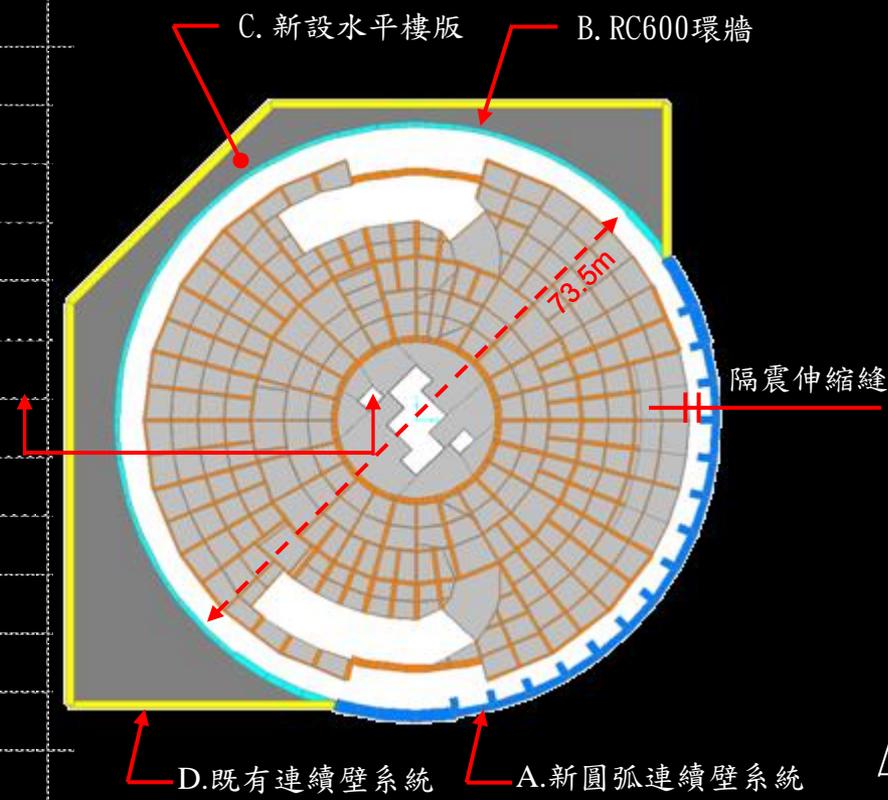
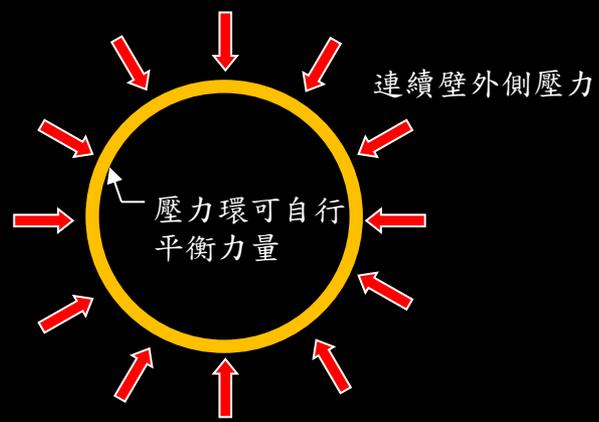
OUTRIGGER TRUSS

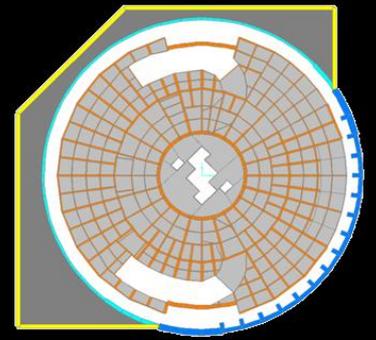
ISOLATOR ,  
SLURRY WALL &  
FOUNDATION





■ 地下層擋土結構系統





工地施工照片



Council  
on  
Tall Buildings  
and  
Urban Habitat

Tao Chu Yin Yuan

**Best Tall Building  
Award Finalist**

Innovation Award 2015



The End.

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