

建築物實施耐震能力評估及補強講習會

PSERCB耐震初步評估之實際案例 分析與系統操作



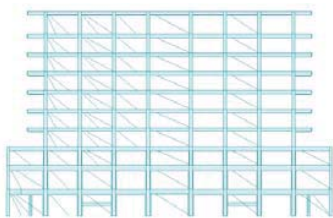
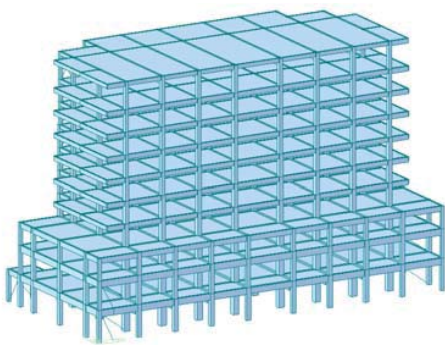
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中華民國105年6月22日

建築物介紹



公有辦公大樓

設計年度：63年2月以前

建物高度：38.25m

總樓地板面積：12973.18m²

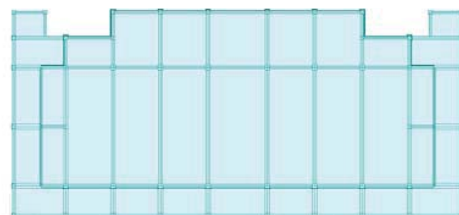
用途係數：1.25

地上樓層數：10

地下樓層數：1

混凝土抗壓強度：178.5 kgf/cm²

主筋降伏強度：4200 kgf/cm²



	詳評耐震能力	耐震標準
X向	0.158(NG)	0.24
Y向	0.126(NG)	0.24

建築物載重配置

靜載重

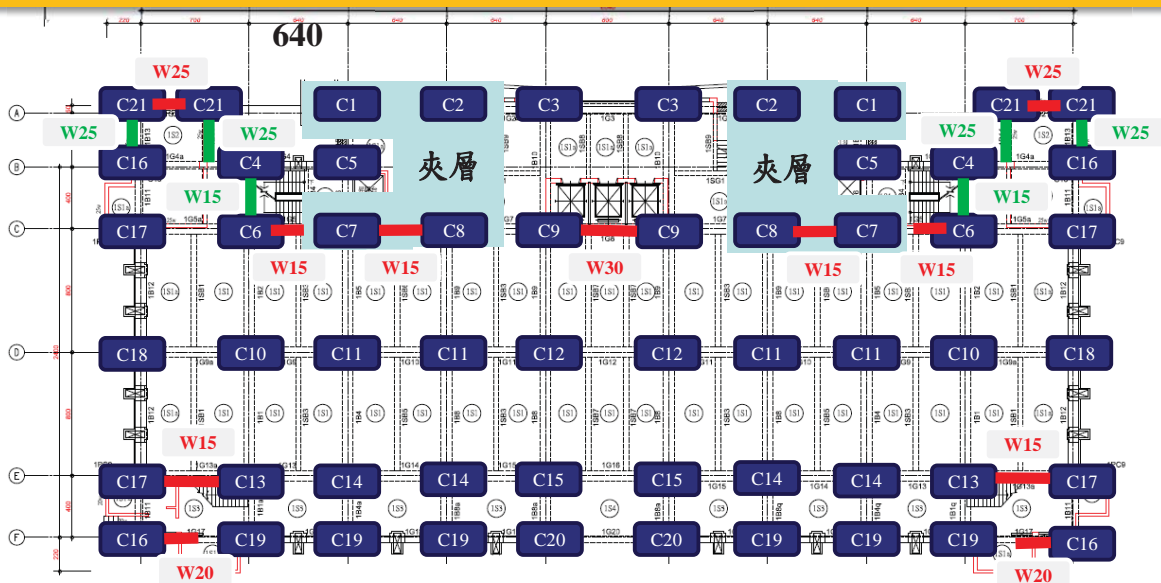
樓層	樓地板面積	單位重
單位	m ²	tonf/m ²
RF	1163.74	1.139
10F	1163.74	0.959
9F	1163.74	0.967
8F	1163.74	0.979
7F	1163.74	0.978
6F	1163.74	1.041
5F	1163.74	1.074
4F	1567.2	1.086
3F	1567.2	1.366
2F	1596.6	1.504

活載重

樓層	單位重
單位	tonf/m ²
RF	0.300
10F	0.300
9F	0.300
8F	0.300
7F	0.300
6F	0.300
5F	0.300
4F	0.300
3F	0.300
2F	0.300

輕隔間活載重75tonf/m²

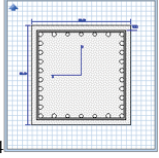
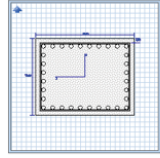
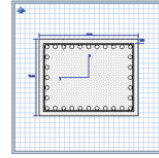
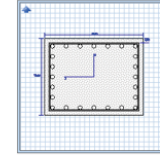
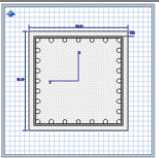
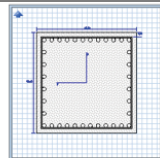
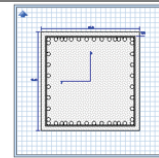
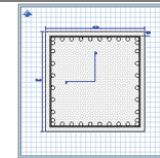
建築物平面圖



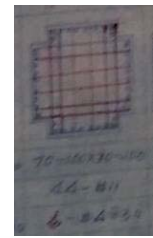
斷面名稱	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
根數	2	2	2	2	2	2	2	2	2	2

C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21
4	2	2	4	2	4	4	2	6	2	4

建築物配筋圖(1)

断面	C1(80x80)	C2(90x70)	C3(90x70)	C4(90x70)
				
主筋	24-#11+6-#9	32-#11	32-#11	24-#11
橫向箍、 繫筋	#4@30 X向6根/Y向6根	#4@30 X向6根/Y向8根	#4@30 X向6根/Y向8根	#4@30 X向6根/Y向6根
断面	C5(80x80)	C6(95.4x95.4) (等值後)	C9(95.4x95.4) (等值後)	C10(95.4x95.4) (等值後)
				
主筋	22-#11+6-#10	36-#11	44-#11	36-#11
橫向箍、 繫筋	#4@30 X向6根/Y向6根	#4@30 X向8根/Y向8根	#4@30 X向8根/Y向8根	#4@30 X向8根/Y向8根

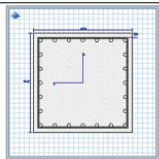
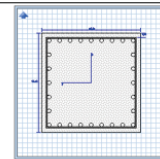
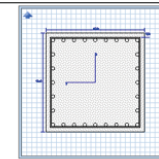
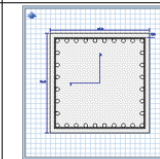
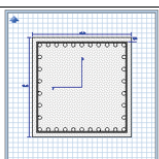
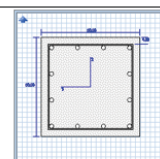
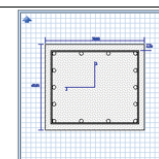
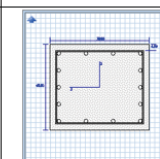
C8 原始圖



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5

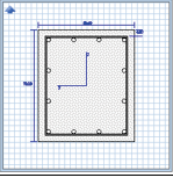
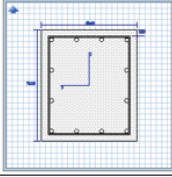
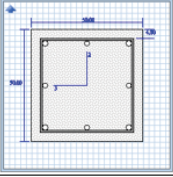
建築物配筋圖(2)

断面	C11(95.4x95.4) (等值後)	C12(95.4x95.4) (等值後)	C13(95.4x95.4) (等值後)	C14(95.4x95.4) (等值後)
				
主筋	24-#10	28-#11	28-#10	32-#11
橫向箍、 繫筋	#4@30 X向8根/Y向8根	#4@30 X向8根/Y向8根	#4@30 X向8根/Y向8根	#4@30 X向8根/Y向8根
断面	C15(95.4x95.4) (等值後)	C16(60x60)	C17(70x60)	C18(70x60)
				
主筋	34-#11	12-#8	14-#8	14-#8
橫向箍、 繫筋	#4@30 X向4根/Y向4根	#3@30 X向4根/Y向4根	#3@30 X向4根/Y向4根	#3@30 X向4根/Y向4根

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6

建築物配筋圖(3)

斷面	C19(60x70)	C20(60x70)	C21(50x50)
			
主筋	12-#8	12-#8	4-#8+4-#7
橫向箍、 繫筋	#3@30 X向4根/Y向4根	#3@30 X向4根/Y向4根	#3@30 X向4根/Y向4根

簡報完畢，敬請指教

