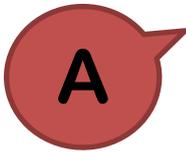




執行設計地震力分析後，如何用中小度地震力進行容許層間相對位移角的檢核？



一般以主控設計地力進行分析後，若要檢核中小度地震力作用下的 Story Drift 樓層層間相對位移角，可透過以下方式輸入 Scale Factor 後，查看表格中的 Modified Drift 結果。

於 Result > Result Tables > Story > Story Drift 功能，在 Story Drift Parameter 視窗設定 Importance Factor 是 1.0，Scale Factor 輸入分析主控地震與中小度地震的係數 $(V^*/V_{max}) = 0.1571/0.1692 = 0.928$ ，查看表格中的 Modified Drift (4F) = (Story Drift)*(Scale Factor) = $0.5298*0.928 = 0.5474$ 即為 V^* 的 Story Drift 數值。

Story Drift Parameters

Response Modification Coefficient
1

Deflection Amplification Factor(Cd)
1

Importance Factor(Ie)
1

Scale Factor
0.928

Allowable Ratio
0.005

Vertical Load Combination
DL Scale Factor 1.0
Load Case S.F. Add Modify Delete

Define Beta(Beta)
 Fixed (1.0) User Define
Story Beta Add... Delete

OK Cancel

MIDAS/Gen Result-[Story Drift]

Load Case	Step	Story	Story Height (cm)	P-Delta Incremental Factor (ad)	Allowable Story Drift Ratio	Maximum Drift of All Vertical Elements				
						Node	Story Drift (cm)	Modified Drift (cm)	Story Drift Ratio	Remark
RMC,Not Used, Cd=1, Ie=1, Scale Factor=0.928, Allowable Ratio=0.005 Press right mouse button and click 'Set Story Drift Parameters...' menu to change RMC or Cd/Ie/Scale Factor Allowable Ratio Beta!										
EX		4F	360.00	1.00	0.0050	83	0.5898	0.5474	0.0015	OK
EX		3F	360.00	1.00	0.0050	51	0.9091	0.8437	0.0023	OK
EX		2F	360.00	1.00	0.0050	1	1.1210	1.0403	0.0029	OK
EX		1F	420.00	1.00	0.0050	19	0.9664	0.8969	0.0021	OK