

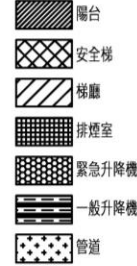


八 步行距離檢討

步行距離	
A1	$L=4.52+7.92+2.93+1.47+0.85=17.69M < 40M$
A2	$L=4.61+6.23+3.45+1.47+0.85=16.61M < 40M$
A3	$L=3.81+3.49+4.67+3.31+1.47+0.85=17.6M < 40M$
B1	$L=1.97+5.98+6.85+1.02+0.75=16.57M < 40M$
B2	$L=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 40M$
B3	$L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 40M$
C1	$L=4.7+6.82+1.32+1.52=14.36M < 40M$
C2	$L=9.61+4.4=14.01M < 40M$
D1	$L=4.01+4.49+7.78+0.71=16.99M < 40M$
D2	$L=4.77+9.12+0.98=14.87M < 40M$
E1	$L=4.51+2.48+2.34+3.3+2.77=15.4M < 50M$
E2	$L=4.5+5.78+0.87=11.15M < 50M$
F1	$L=3.56+1.93+6.69+1.94=14.12M < 50M$
F2	$L=4.3+5.75+0.71=10.76M < 50M$
重複步行距離	
A1	$L=4.52+7.92+2.93+1.47+0.85=17.69M < 20M$
A2	$L=4.61+6.23+3.45+1.47+0.85=16.61M < 20M$
A3	$L=4.46+2.57+4.63+2.48+1.47+0.85=16.46M < 20M$
B1	$L=4.57+2.96+7.69+1.02+0.75=16.99M < 20M$
B2	$L=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 20M$
B3	$L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 20M$
C1	$L=4.7+6.82+1.32+1.52=14.36M < 20M$
C2	$L=9.61+4.4=14.01M < 20M$
D1	$L=4.01+4.49+7.78+0.71=16.99M < 20M$
D2	$L=4.58+8.07+0.98=13.63M < 20M$
E1	$L=4.51+2.48+2.34+3.3=12.63M < 50M$
E2	$L=4.5+5.78=10.28M < 50M$
F1	$L=3.56+1.93+6.69+1.94=14.18M < 50M$
F2	$L=4.3+5.75+0.71=10.05M < 50M$

九 採光面積檢討

A1	$2.4 \times 2.5 + 1 \times 1.75 + 2.2 \times 2.5 + 2.8 \times 2.5 + 2.8 \times 2.5 + 1 \times 1.75 = 29.00 \text{ ㎡} > 77.83/8 = 9.73 \text{ ...OK}$
A2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 0.9 \times 1.3 + 1.6 \times 1.5 = 21.57 \text{ ㎡} > 70.06/8 = 8.76 \text{ ...OK}$
A3	$2.2 \times 2.5 + 2 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.2 \times 1.5 = 16.90 \text{ ㎡} > 60.73/8 = 7.59 \text{ ...OK}$
B1	$2.4 \times 2.5 + 1.8 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.4 \times 1.5 = 17.20 \text{ ㎡} > 58.64/8 = 7.33 \text{ ...OK}$
B2	$2.4 \times 2.5 + 1.6 \times 2.5 + 2.0 \times 2.5 + 0.7 \times 1.75 + 1.6 \times 1.4 = 18.47 \text{ ㎡} > 71.44/8 = 8.93 \text{ ...OK}$
B3	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40 \text{ ㎡} > 85.35/8 = 10.67 \text{ ...OK}$
C1	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40 \text{ ㎡} > 82.94/8 = 10.37 \text{ ...OK}$
C2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 22.15 \text{ ㎡} > 78.75/8 = 9.84 \text{ ...OK}$
D1	$2.2 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 2 \times 1.5 + 2 \times 2.5 + 1.4 \times 2.5 = 25.40 \text{ ㎡} > 89.55/8 = 11.19 \text{ ...OK}$
D2	$1.4 \times 1.5 + 2.8 \times 2.5 + 2.6 \times 2.5 + 2 \times 1.5 + 1.6 \times 1.5 = 21.00 \text{ ㎡} > 93.27/8 = 11.66 \text{ ...OK}$
E1	$2.8 \times 2.5 + 2.8 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 23.15 \text{ ㎡} > 70.61/8 = 8.83 \text{ ...OK}$
E2	$2.8 \times 2.5 + 2.8 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 24.15 \text{ ㎡} > 70.96/8 = 8.87 \text{ ...OK}$
F1	$2.4 \times 2.5 + 2.4 \times 2.5 + 1.8 \times 2.5 + 2.2 \times 2.5 = 22.00 \text{ ㎡} > 59.59/8 = 7.45 \text{ ...OK}$
F2	$2.2 \times 2.5 + 2.2 \times 2.5 + 2.6 \times 2.5 + 2.2 \times 2.5 + 0.9 \times 2.5 = 25.25 \text{ ㎡} > 57.58/8 = 7.20 \text{ ...OK}$



一、四層 各戶 樓地板面積計算

室內面積	
A1	$4.1 \times 0.45 + 3.595 \times 2.35 + 5.7 \times 1.37 + 4.15 \times 2.7 = 86.31 \text{ ㎡}$
A2	$3.05 \times 10.295 + 11.345 \times 2.65 + 1.675 \times 2.15 + 2.6 \times 4.82 = 77.6 \text{ ㎡}$
A3	$0.8 \times 2.17 + 2.8 \times 5.075 + 2.5 \times 3.52 + 6.775 \times 3 + 8.375 \times 2.75 + 0.45 \times 1.675 = 68.86 \text{ ㎡}$
B1	$8.37 \times 2.8 + 6.77 \times 3 + 2.75 \times 8.37 = 66.77 \text{ ㎡}$
B2	$6.15 \times 1.47 + 8.55 \times 2.33 + 5.6 \times 9 = 79.36 \text{ ㎡}$
B3	$4.6 \times 2.65 + 4.27 \times 3.45 + 6.715 \times 6.4 + 1.45 \times 2.17 + 3.5 \times 6.15 = 94.57 \text{ ㎡}$
C1	$1.85 \times 5.75 + 5.3 \times 1.33 + 7.44 \times 9.6 + 1.15 \times 2.65 = 92.16 \text{ ㎡}$
C2	$2 \times 1.725 + 3.8 \times 4.97 + 2.45 \times 2.375 + 7.15 \times 5.675 + 3.78 \times 5.3 = 88.77 \text{ ㎡}$
D1	$1.675 \times 2.45 + 2.675 \times 4.235 + 3 \times 4.685 + 3.985 \times 2.775 + 3.225 \times 3.085 + 2.89 \times 2.055 + 7.145 \times 5.675 = 96.98 \text{ ㎡}$
D2	$4.21 \times 1 + 1.73 \times 1.45 + 8.49 \times 9.71 + 0.59 \times 1.65 + 5.35 \times 2 + 2.6 \times 0.4 = 101.87 \text{ ㎡}$
E1	$1.75 \times 1.45 + 4.3 \times 9.71 + 10.71 \times 3.26 = 79.21 \text{ ㎡}$
E2	$2.835 \times 1 + 4.86 \times 0.35 + 7.505 \times 9.71 + 1.75 \times 1.45 = 79.95 \text{ ㎡}$
F1	$2.515 \times 3.15 + 2.3 \times 1.05 + 1.885 \times 2 + 9.435 \times 5.65 = 67.42 \text{ ㎡}$
F2	$7.65 \times 1.85 + 6.5 \times 8.15 = 67.13 \text{ ㎡}$
小計:	1146.96 ㎡

陽合面積	
A1	$1.0 \times 3.775 + 4.3 \times 1.3 = 9.37 \text{ ㎡}$
A2	$3.795 \times 1.0 + 1.95 \times 2.6 = 8.87 \text{ ㎡}$
A3	$3 \times 1.675 = 5.03 \text{ ㎡}$
B1	$3 \times 1.675 = 5.03 \text{ ㎡}$
B2	$2.425 \times 1 + 3.0 \times 1.35 = 6.48 \text{ ㎡}$
B3	$4.27 \times 1.675 + 3.35 \times 1.0 = 10.50 \text{ ㎡}$
C1	$1.11 \times 1.6 + 3.68 \times 1.675 + 3.25 \times 1.0 = 11.19 \text{ ㎡}$
C2	$2.97 \times 1.8 + 1.0 \times 3.37 = 8.72 \text{ ㎡}$
D1	$3.225 \times 1.675 + 1.0 \times 3.425 = 8.83 \text{ ㎡}$
D2	$1.525 \times 2.55 + 3.12 \times 1.2 = 7.63 \text{ ㎡}$
E1	$1.525 \times 2.55 + 3.12 \times 1.2 = 7.63 \text{ ㎡}$
E2	$2.92 \times 1.525 + 3.12 \times 1.2 = 8.20 \text{ ㎡}$
F1	$2.3 \times 1.525 = 3.51 \text{ ㎡}$
F2	$2 \times 1.425 + 1.925 \times 1.5 = 5.74 \text{ ㎡}$
A,B 樓	$0.35 \times 1.5 + 1.35 \times 1.3 + 1.425 \times 14.675 + 1.35 \times 1.275 = 24.91 \text{ ㎡}$
D 樓	$1.35 \times 1.85 = 2.50 \text{ ㎡}$
小計:	134.14 ㎡

樓梯面積計算	
A 樓	$0.65 \times 1.05 + 3.4 \times 3.4 + 3.76 \times 2.68 = 22.32 \text{ ㎡}$
B 樓	$0.82 \times 1.25 + 5.1 \times 2.6 = 14.29 \text{ ㎡}$
C 樓	$2.25 \times 5.11 = 11.50 \text{ ㎡}$
D 樓	$5.6 \times 2.51 = 14.06 \text{ ㎡}$
E 樓	$2.4 \times 3.4 = 8.16 \text{ ㎡}$
F 樓	$2.29 \times 4.05 = 9.27 \text{ ㎡}$
小計:	79.60 ㎡

樓梯不足2M面積計算	
A 樓	$0.65 \times 1.05 = 0.68 \text{ ㎡}$
B 樓	$0.82 \times 1.25 = 1.03 \text{ ㎡}$
小計:	1.71 ㎡

樓梯面積計算	
A 樓	$5.075 \times 3.42 = 17.36 \text{ ㎡}$
B 樓	$5.045 \times 3.42 = 17.25 \text{ ㎡}$
C 樓	$1.11 \times 1.34 + 2.43 \times 3.46 + (4.57 + 3.13) \times 0.72/2 + 1.11 \times 1.98 + 4.57 \times 3.2 + 1.8 \times 1.85 = 32.77 \text{ ㎡}$
D 樓	$2.7 \times 4.57 + 0.59 \times 1.05 + 0.35 \times 0.7 + 1.275 \times 0.38 + 4.09 \times 2.89 = 25.51 \text{ ㎡}$
E 樓	$3.4 \times 2.59 + 2.15 \times 1.05 + 3.4 \times 3.17 = 21.84 \text{ ㎡}$
F 樓	$2.325 \times 4.27 + 2.29 \times 3.6 = 18.17 \text{ ㎡}$
小計:	132.9 ㎡

升降機面積計算	
A 樓	$2.35 \times 2.15 = 5.05 \text{ ㎡}$
B 樓	$2.4 \times 2.17 = 5.21 \text{ ㎡}$
E 樓	$2.35 \times 2.15 = 5.05 \text{ ㎡}$
F 樓	$2.1 \times 2 = 4.20 \text{ ㎡}$
小計:	19.51 ㎡

緊急升降機面積計算	
A,B 樓	$2.7 \times 2.5 = 6.75 \text{ ㎡}$
C 樓	$2.45 \times 2.55 = 6.25 \text{ ㎡}$
D 樓	$2.5 \times 2.45 = 6.13 \text{ ㎡}$
小計:	19.13 ㎡

排煙室面積計算	
C 樓	$4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ ㎡}$
D 樓	$2.45 \times 4.085 + 1.425 \times 1.15 = 11.65 \text{ ㎡}$
小計:	22.99 ㎡

設備間面積計算	
A,B 樓	$0.55 \times 1.65 \times 2 = 1.82 \text{ ㎡}$
D 樓	$1.535 \times 2.45 = 3.76 \text{ ㎡}$
小計:	5.58 ㎡

二、面積計算檢討

樓地板面積檢討	$1146.96 + 79.60 + 132.9 + 19.51 + 19.13 + 22.99 + 5.58 = 1426.67 \text{ ㎡}$
陽合免計容積面積檢討	$134.14 \text{ ㎡} < 1426.67 \times 10\% = 142.67 \text{ ㎡} \text{ ...OK}$
樓梯免計容積面積檢討	$79.60 - 1.71 = 77.89 \text{ ㎡} < 1426.67 \times 10\% = 142.67 \text{ ㎡} \text{ ...OK}$
陽合+樓梯免計容積面積檢討	$134.14 + 77.89 = 212.03 \text{ ㎡} < 1426.67 \times 15\% = 214.00 \text{ ㎡} \text{ ...OK}$
設備間面積檢討	$132.9 + 19.13 + 22.99 + 5.58 = 180.6 \text{ ㎡}$
總容積樓地板面積檢討	$1426.67 - 77.89 - 180.6 = 1168.18 \text{ ㎡}$
(備註)	(說明)

三、當層戶數檢討 14 戶

四、緊急升降機設置檢討

本樓A,B,C 樓21 層, 高度74.45M 建築; D 樓21 層, 高度67.65M 建築,	
設置三座緊急升降機, 機房能力應十七人, 速度每分鐘0.05公尺	
A,B 樓 (11~21 層) - 設置緊急升降機	$(86.31 + 79.95 + 68.11 + 66.77 + 79.85 + 94.57) \times 11 = 5231.16 > 500 \text{ ㎡}$
C 樓 (11~21 層) - 設置緊急升降機	$(92.16 + 88.77) \times 11 = 1990.23 \text{ ㎡} > 500 \text{ ㎡}$
D 樓 (11~19 層) - 設置緊急升降機	$(96.98 + 101.87) \times 3 + (96.98 + 91.70) \times 6 = 1728.63 \text{ ㎡} > 500 \text{ ㎡}$
E 樓 (11~13 層) - 免設置	$(79.21 + 79.95) \times 3 = 477.48 \text{ ㎡} < 500 \text{ ㎡}$
F 樓 (11~13 層) - 免設置	$(67.42 + 67.13) \times 3 = 403.65 < 500 \text{ ㎡}$

五、排煙室面積檢討

A,B 樓	$3.76 \times 2.68 = 10.08 \text{ ㎡} > 10.00 \text{ ㎡} \text{ ...OK}$
C 樓	$4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ ㎡} > 10.00 \text{ ㎡} \text{ ...OK}$
D 樓	$2.45 \times 4.085 + 1.15 \times 1.425 = 11.65 \text{ ㎡} > 10.00 \text{ ㎡} \text{ ...OK}$

六、特別安全梯面積檢討

A,B 樓	$(17.36 + 17.25 + 10.08) = 44.69 \text{ ㎡}$
>	$(77.83 + 71.87 + 59.98 + 58.64 + 71.44 + 85.35) \times 3\% = 12.75 \text{ ㎡}$
C 樓	$(31.07 + 11.34) = 42.41 \text{ ㎡} > (82.94 + 78.75) \times 3\% = 4.85 \text{ ㎡}$
D 樓	$(25.51 + 11.65) = 37.16 \text{ ㎡} > (89.55 + 93.27) \times 3\% = 5.48 \text{ ㎡}$

七、居室面積計算

廚房面積	
A1	$1.25 \times 0.45 + 1.575 \times 2.17 + 1.65 \times 2.725 = 8.48 \text{ ㎡}$
A2	$1.675 \times 2.175 + 1.675 \times 2.325 = 7.54 \text{ ㎡}$
A3	$1.775 \times 2.1 + 2.75 \times 1.6 = 8.13 \text{ ㎡}$
B1	$1.775 \times 2.1 + 2.75 \times 1.6 = 8.13 \text{ ㎡}$
B2	$1.5 \times 2.65 + 1.675 \times 2.65 = 8.41 \text{ ㎡}$
B3	$1.625 \times 2.4 + 1.6 \times 3.325 = 9.22 \text{ ㎡}$
C1	$1.625 \times 2.4 + 1.6 \times 3.325 = 9.22 \text{ ㎡}$
C2	$3.355 \times 1.6 + 2.695 \times 1.725 = 10.02 \text{ ㎡}$
D1	$2.3 \times 1.675 + 1.625 \times 2.2 = 7.43 \text{ ㎡}$
D2	$2.235 \times 3.85 = 8.60 \text{ ㎡}$
E1	$2.235 \times 3.85 = 8.60 \text{ ㎡}$
E2	$1.675 \times 0.35 + 1.81 \times 4.1 + 0.415 \times 2.36 = 8.99 \text{ ㎡}$
F1	$1.885 \times 2.025 + 1.825 \times 2.2 = 7.83 \text{ ㎡}$
F2	$1.675 \times 2.675 + 3.825 \times 1.325 = 9.55 \text{ ㎡}$
居室面積	
A1	$86.31 - 8.48 = 77.83 \text{ ㎡}$
A2	$77.6 - 7.54 = 70.06 \text{ ㎡}$
A3	$68.86 - 8.13 = 60.73 \text{ ㎡}$
B1	$66.77 - 8.13 = 58.64 \text{ ㎡}$
B2	$79.85 - 8.41 = 71.44 \text{ ㎡}$
B3	$94.57 - 9.22 = 85.35 \text{ ㎡}$
C1	$92.16 - 9.22 = 82.94 \text{ ㎡}$
C2	$88.77 - 10.02 = 78.75 \text{ ㎡}$
D1	$96.98 - 7.43 = 89.55 \text{ ㎡}$
D2	$101.87 - 8.60 = 93.27 \text{ ㎡}$
E1	$79.21 - 8.60 = 70.61 \text{ ㎡}$
E2	$79.95 - 8.99 = 70.96 \text{ ㎡}$
F1	$67.42 - 7.83 = 59.59 \text{ ㎡}$
F2	$67.13 - 9.55 = 57.58 \text{ ㎡}$

圖11-16 四層面積計算圖(S=1/300)

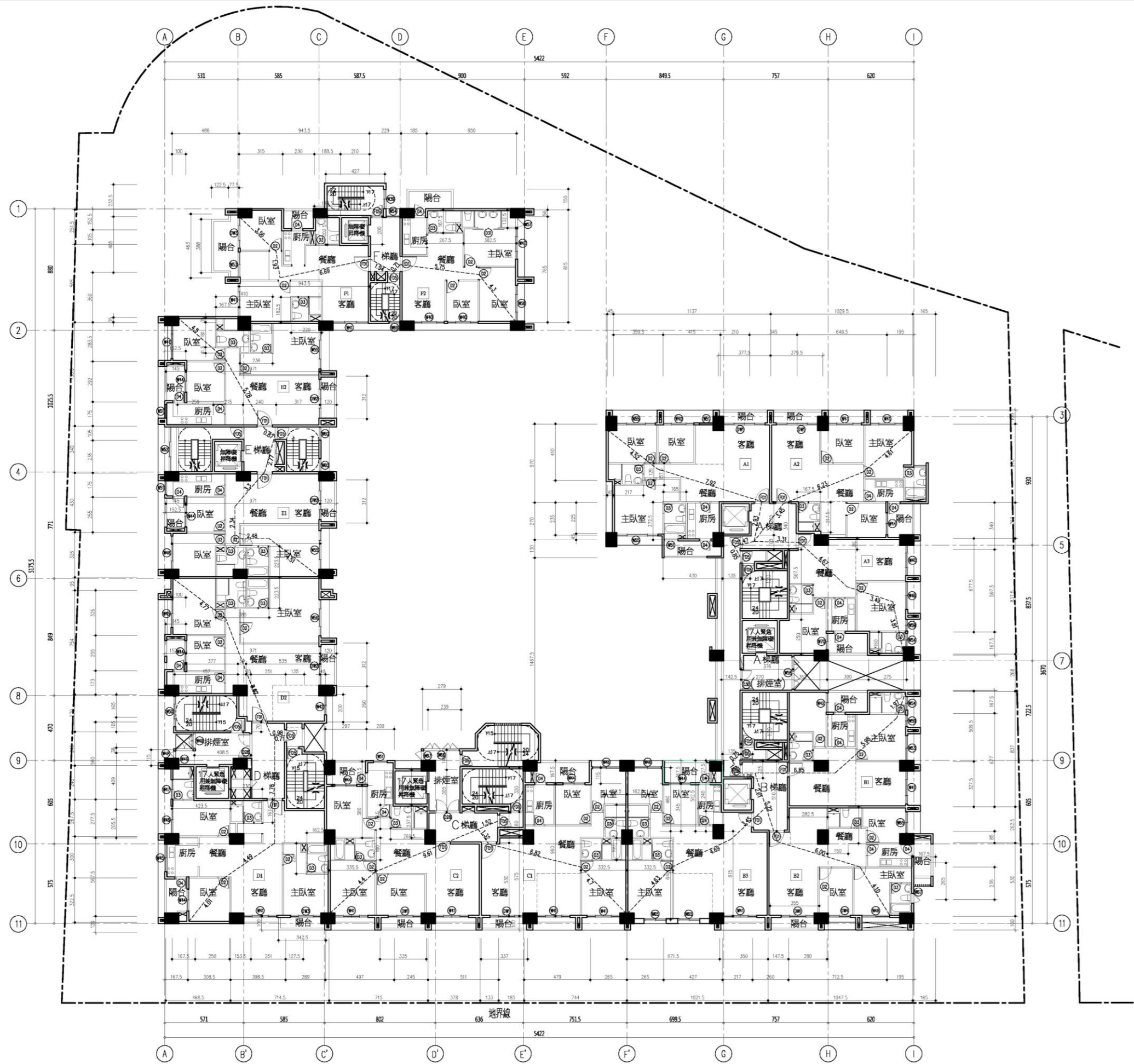


圖11-17 五層平面圖(S=1/300)