Diagram C1: Prevention of Fire Spread between Buildings (See Clauses C5.2 and C5.3)

Example (a): Buildings not on the same site (plan view)

Example (b): Buildings on the same site (plan view)

FRR of external walls ≥ FRR of that storey

F  fixed lights having an FRR not less than that of the storey

U  unprotected openings

a  min. 900mm

b  min. 1800mm
Example (c): The minimum distance between unprotected openings of two buildings on the same site (plan view)

- \( \alpha \leq 135^\circ \)
- \( a \) min. 900mm
- \( b \) min. 1800mm
- \( \theta \) The angle made between facades of two adjoining buildings > 135°
- \( \alpha \) The angle made between facades of two adjoining buildings \( \leq 135^\circ \)

FRR of external walls \( \geq \) FRR of that storey

- \( F \) Fixed lights having an FRR not less than that of the storey
- \( U \) unprotected openings
Example (d): The minimum distance between unprotected openings of two buildings (Section view)

FRR of external walls/roof ≥ FRR of that storey

U  unprotected openings

b  min. 1800mm
Diagram C2: Openings at the External Walls of Required Staircases and Protected Lobbies (see Clause C9.7)

Example (a)

Example (b)

FRRe : FRR of the external wall
FRRs : FRR of the required staircase
FRRscreen wall: FRR of the screen wall ≥ FRRs

Where AB is:

i. Opposite side of the street,
ii. Common boundary with an adjoining site,
iii. Any other external wall of FRR <FRRe or unprotected opening of the same building
iv. Any other building on the same site

External wall may be unprotected if d > 6m
External wall with FRRe ≥ FRRs if d ≤ 6m
Openings:

i) d ≤ 6m - Fixed light with FRR ≥ FRRe
   - Door with FRR ≥ FRRe for:
     - Discharge point at G/F
     - Podium/Roof level
ii) d > 6m - unprotected
Diagram C3: Separation between Required Staircase and Protected Lobbies from the General Accommodation (see Clause C9.8)

FRR_e : FRR of the external wall

FRR_s : FRR of the required staircase

External wall with FRR_e

Wall separating the staircase or lobby from the rest of the building with FRR_s

Where FRR_s \geq FRR_e
Diagram C4: Vertical Barrier at Escalator (see Clause C10.1)
Diagram C5: Vertical Barrier at Atrium (See Clause C10.1)
Example (a): Pitched Roof

Diagram C6: Examples on Measuring Atrium Height (See Clause C10.3(c))

Atrium Height – Base to the underside of lowest structural member of the roof

a \leq 15 \text{ m}
Example (b): Flat Roof

Atrium Height – Base to soffit of lowest structural member of the roof

\[ a \leq 15 \text{ m} \]
Diagram C7: Protection against Spread of Fire by Spandrels (see Clause C11.1)

(F) FRR of Intervening floor

Spandrel having FRR ≥ that of (F)

a ≥ 900 mm
b ≥ 500 mm

(E) External wall (e.g. curtain wall) with no FRR or FRR < that of (F)