

Access Facilities for Telecommunications and Broadcasting Services

Introduction

The world is undergoing a technological revolution and entering the Information Age. Hong Kong is well placed to reap the benefits and maintain our competitive edge in this new era. The Government's policy objective is to develop Hong Kong into a telecommunications, broadcasting and Internet hub.

2. Consumers should be able to enjoy quality broadcasting, telecommunications and Internet services at their choice. To enable occupiers of a building to have access to the full range of such services, and to enable all telecommunications and broadcasting network operators to have access to customers in buildings on a non-discriminatory basis to ensure fair competition, the Telecommunications Authority has, under section 14 of the Telecommunication Ordinance, granted authorization to fixed telecommunications network operators and a subscription television broadcasting network operator to place and maintain telecommunication line in the common parts of buildings in private ownership. New telecommunications network operators and broadcast operators may be licensed from time to time to provide new telecommunications and broadcasting services.

3. To enable the networks operators to accommodate their equipment and wiring in buildings, Regulation 28A of the Building (Planning) Regulations have been enacted and will come in operation on 1 November 2000, requiring every commercial building, industrial building, residential building (other than a building for residence of a single family) and hotel building to be provided with access facilities for telecommunication and broadcasting services in accordance with the design requirements specified by the Building Authority (BA).

4. This practice note specifies the BA's requirements on the design of such facilities.

Facilities for Telecommunications and Broadcasting Services

5. The minimum number and size of lead-in duct, telecommunication and
/broadcasting

broadcasting (TBE) rooms and vertical riser slots shall be provided in accordance with the requirements specified in Appendix A.

6. The TBE room should be placed at a location not susceptible to flooding. For development with mixed uses comprising separate tower blocks on top of a commercial podium, separate TBE rooms should be provided within each tower block and the commercial podium to serve each zone.

7. In addition, the TBE room should also comply with the following requirements :-

- (i) the room should be linked up with the vertical block wiring system of the buildings
- (ii) no water pipes, sewage pipes, water drainage, water sprinklers, high voltage power supply (exceeding 600V between phase and earth for three-phase, or 1000V for single-phase, or 1500V dc) cables, power transformers should be installed within the TBE rooms;
- (iii) sufficient lighting, electricity supply and ventilation should be provided;
- (iv) separate telecommunications earth electrode should be provided; and
- (v) minimum clear height of 2.8 metres should be provided.

8. A schematic arrangement of the access facilities is attached at Appendix B for general reference.



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Building Authority

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Index under : Access Facilities for Telecommunications and Broadcasting Services

Requirements of Access Facilities for Telecommunications and Broadcasting Services

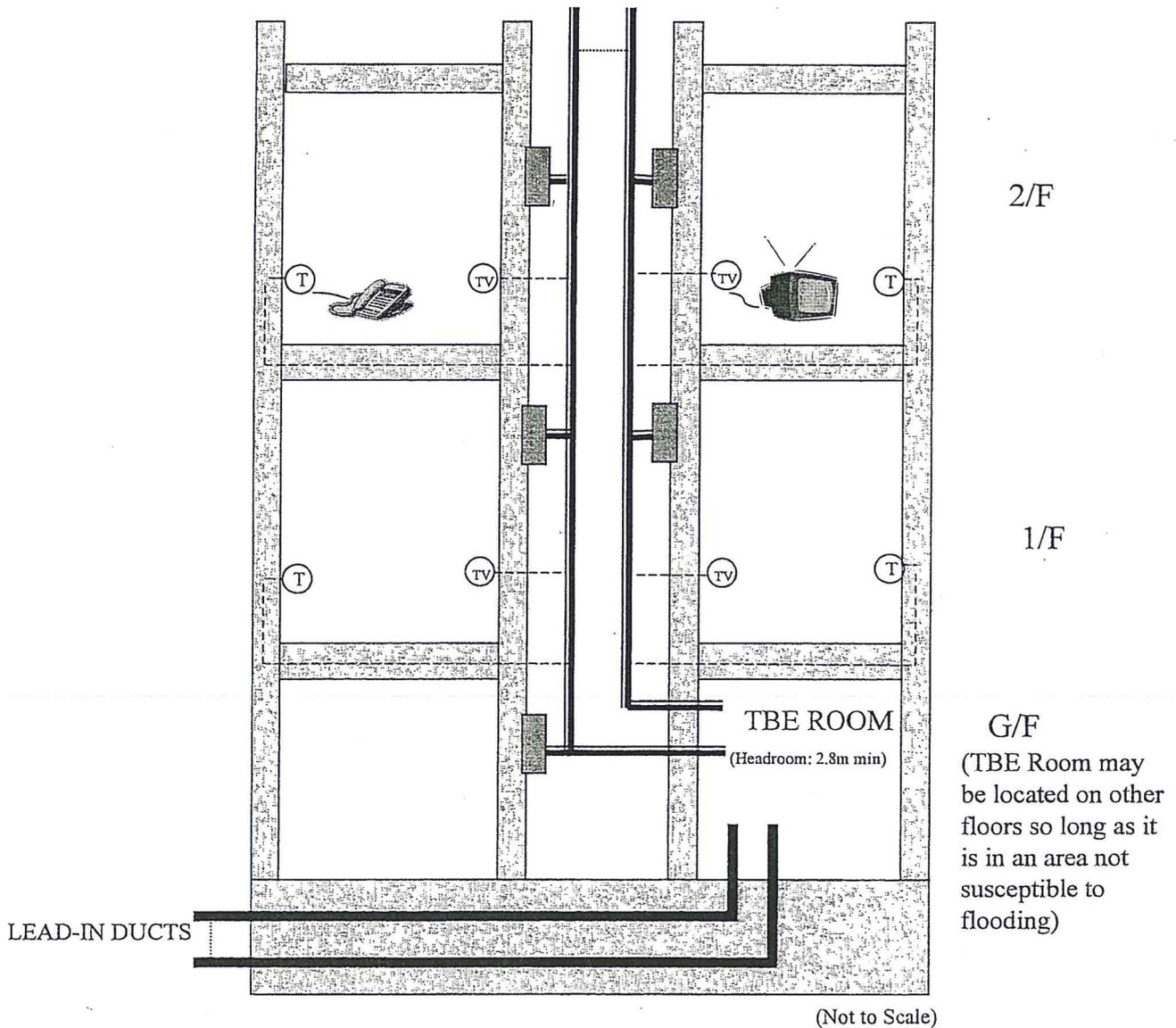
OFFICE/COMMERCIAL, INDUSTRIAL BUILDINGS AND SHOPPING ARCADES										
Usable floor area, \bar{A} ($\times 1000 \text{ m}^2$)	$\bar{A} \leq 2$	$2 < \bar{A} \leq 4$	$4 < \bar{A} \leq 12$	$12 < \bar{A} \leq 24$	$24 < \bar{A} \leq 48$	$48 < \bar{A} \leq 72$	$72 < \bar{A} \leq 96$	$96 < \bar{A} \leq 120$	$120 < \bar{A} \leq 144$	
No. of lead-in duct	2	3	3	4	4	8	8	8	8	
Inside diameter of lead-in duct (mm)	100	100	100	100	100	100	100	100	100	
Minimum Area of TBE Room (m^2)	Not Required	22	42	51	61	79	88	107	113	
Clear Height of TBE Room (m)	3	3	3	3	3	3	3	3	3	
Vertical riser (mm)	100 \times 100	300 \times 200	300 \times 200	400 \times 200	400 \times 200	600 \times 250	650 \times 250	750 \times 250	900 \times 250	
No. of vertical riser slot	2	2	2	2	2	2	2	2	2	

RESIDENTIAL BUILDINGS										
No. of flats in a block, N	$N \leq 5$	$5 < N \leq 50$	$50 < N \leq 100$	$100 < N \leq 250$	$250 < N \leq 500$	$500 < N \leq 750$	$750 < N \leq 1000$	$1000 < N \leq 1500$		
No. of lead-in duct	2	3	3	3	4	4	4	4	4	
Inside diameter of lead-in duct (mm)	100	100	100	100	100	100	100	100	100	
Minimum Area of TBE Room (m^2)	Not Required	7	21	24	29	39	43	48	48	
Clear Height of TBE Room (m)	Required	2.8	2.8	2.8	2.8	2.8	3	3	3	
Vertical riser (mm)	75 \times 75	200 \times 100	200 \times 100	200 \times 200	300 \times 200	300 \times 200	300 \times 200	300 \times 200	400 \times 200	
No. of vertical riser slot	1	1	1	1	1	2	2	2	2	

HOTELS										
No. of rooms, N	$N \leq 200$	$200 < N \leq 400$	$400 < N \leq 600$	$600 < N \leq 800$	$800 < N \leq 1000$	$1000 < N \leq 1200$				
No. of lead-in duct	3	3	3	3	3	3	3	3	3	
Inside diameter of lead-in duct (mm)	100	100	100	100	100	100	100	100	100	
Minimum Area of TBE Room (m^2)	24	24	26	28	28	35	35	37	37	
Clear Height of TBE Room (m)	3	3	3	3	3	3	3	3	3	
Vertical riser (mm)	200 \times 200	300 \times 200	300 \times 200	300 \times 200	400 \times 200	400 \times 200	400 \times 200	400 \times 200	400 \times 200	
No. of vertical riser slot	1	1	2	2	2	2	2	2	2	

Note 1 : The definition of " Usable Floor Area" shall have the same meaning as defined in the Building (Planning) Regulations.

An Illustration of Schematic Arrangement of Access Facilities



Legends:

- | | | | |
|---|-------------------|-------|--|
| Ⓣ | Telephone socket | ----- | Concealed conduit
25mm dia typical-for telephone
32mm dia typical-for TV |
| Ⓥ | TV socket | ===== | Vertical riser/
horizontal trunking |
| ■ | Distribution case | | |

Notes:

1. The size of TBE room should conform to Table in Appendix A
2. The construction of TBE room should comply with Building (Construction) Regulations