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致：消防處通函收件人

執事先生：

消防處通函第 3/2012 號
自動花灑裝置的規格

本處曾就修訂英國防損委員會編訂並包含 BS EN 12845 的自動花灑裝置規定以適應本地情況一事，發出消防處通函第 3/2006 號。現再發出本通函，進一步闡明部分技術事宜。

本通函所夾附的補充頁及修訂表 TB210.T5，是用以補充隨消防處通函第 3/2006 號發出的"表二"所載的修訂詳情。由於是次修訂純屬確立現行做法，相關修訂事項須即時採納以供遵辦。

消防處處長

(劉敏明　　代行)

連附件

二零一二年三月二十二日

List Two : Clauses to be replaced by modified conditions
LPC Rules for Automatic Sprinkler Installations Incorporating BS EN 12845 : 2003

List-Item	Clause/Para./ Page	Context	Replaced by	Reason
2.115	Clause 10.6.2.2 Page 60	**Positive head** In positive head conditions, the diameter of the suction pipe shall be no less than 65mm. Furthermore, the diameter shall be such that a velocity of 1,8 m/s is not exceeded when the pump is operating at maximum demand flow.	**Positive head** In positive head conditions, the diameter of the suction pipe shall be no less than 65 mm. Furthermore, the diameter shall be such that a velocity of 1,8 m/s is not exceeded when the pump is operating at maximum demand flow. **The equivalent length of the suction pipe and fittings shall be not more than 30m to avoid air locks.**	Follow local practice according to the LPC Rules BS 5306 : Part 2 : 1990
2.116	Clause 10.6.2.3 Page 60	**Suction lift** In suction lift conditions, the diameter of the suction pipe shall be no less than 80 mm. Furthermore, the diameter shall be such that a velocity of 1,5 m/s is not exceeded when the pump is operating at maximum demand flow.	**Suction lift** In suction lift conditions, the diameter of the suction pipe shall be no less than 80 mm. Furthermore, the diameter shall be such that a velocity of 1,5 m/s is not exceeded when the pump is operating at maximum demand flow. **The equivalent length of the suction pipe and fittings shall be not more than 30m to avoid air locks.**	Follow local practice according to the LPC Rules BS 5306 : Part 2 : 1990
2.117	Annex E Clause E.2.1 Page 149	**Hazard group** High rise sprinkler systems shall comply with the requirements for Ordinary Hazard Group III protection.	**Hazard Group** High rise sprinkler systems shall comply with the requirements **according to Clause 6 (Classification of occupancies and fire hazards).**	Follow local practice according to FSD Circular Letter No. 2/94.
2.118	New Clause 10.10		**Intermediate Booster Pump** In all buildings for installation(s) where the height between the topmost sprinkler heads and the lowest Sprinkler Inlet is in excess of 60m, the flow and pressure characteristics (other than “nominal data” of modified Table TB210.T5 [see item 2.119]) according to the Rules shall be maintained by intermediate booster pumps which may be either a dual purpose pump system or a separate one. Design and requirements such as the control, signal indications, start and stop as well as labeling shall be in accordance with the intermediate booster pump of FH/HR system stipulated in the FSCoP.	Follow similar requirements in FH/HR system as stated in the FSCoP

List Two : Clauses to be replaced by modified conditions
LPC Rules for Automatic Sprinkler Installations Incorporating BS EN 12845 : 2003

List-Item	Clause/Para./ Page	Context	Replaced by	Reason
2.119	TB210: 2007	Table TB210.T5	Table TB210.T5 in Annex V is modified to extend the addition of S-“pressure equivalent to the height between the pump and the lowest sprinkler in the installation” to the nominal pressure data of LH to OH4 for high rise system.	To suit local practice.

TB210.7.1Pre-calculated systems – LH and OH

Where the pumps take water from a storage tank, the characteristic of pre-calculated LH and OH systems shall conform to Table TB210.T5.

Table TB210.T5 Minimum pump characteristics for LH and OH (pre-calculated systems) (replaces BS EN 12845:2003 Table 16)

Hazard class	(Non-high rise system) Height difference from pump – h or (High rise system) Lowest sprinkler in installation – h to highest sprinkler in installation	Nominal data		Characteristic not less than			
		Pressure[2]	Flow	Pressure[2]	Flow	Pressure[2]	Flow
	m	bar	l/min	bar	l/min	bar	l/min
LH (Wet or pre-action)	$h \leq 15$	1,5	300	3,7	225	–	–
	$15 < h \leq 30$	1,8	340	5,2	225	–	–
	$30 < h \leq 45$	2,3	375	6,7	225	–	–
OH1 Wet or pre-action	$h \leq 15$	1,2	900	2,2	540	2,5	375
	$15 < h \leq 30$	1,9	1 150	3,7	540	4,0	375
	$30 < h \leq 45$	2,7	1 360	5,2	540	5,5	375
OH1 Dry or alternate OH2 Wet or pre-action	$h \leq 15$	1,4	1 750	2,5	1 000	2,9	725
	$15 < h \leq 30$	2,0	2 050	4,0	1 000	4,4	725
	$30 < h \leq 45$	2,6	2 350	5,5	1 000	5,9	725
OH2 Dry or alternate OH3 Wet or pre-action	$h \leq 15$	1,4	2 250	2,9	1 350	3,2	1 100
	$15 < h \leq 30$	2,0	2 700	4,4	1 350	4,7	1 100
	$30 < h \leq 45$	2,5	3 100	5,9	1 350	6,2	1 100
OH3 Dry or alternate OH4 Wet or pre-action	$h \leq 15$	1,9	2 650	3,0	2 100	3,5	1 800
	$15 < h \leq 30$	2,4	3 050	4,5	2 100	5,0	1 800
	$30 < h \leq 45$	3,0	3 350	6,0	2 100	6,5	1 800

NOTE 1: For high rise system definition see BS EN12845:2003 clause 3.32

NOTE 2: For high rise installation, an additional pressure – S, which is equivalent to the height difference between the pump and the lowest sprinkler in the installation shall be added to each of the above pressure requirements.