

ACCEPTANCE CRITERIA FOR WET RISER

ITEM	ITEMS	CRITERIA	ACCEPT(√) REJECT(X)			REMARKS
			Design/Tendering	Construction	T&C	
1	Fire Hose					
1.1	Make					
1.2	Model					
1.3	Hose Diameter	65mm Ø				
1.4	Hose length	30 metres				
1.5	Hose Material	Canvas				
1.6	Mounting type	Stacked on a swing-type hose cradle				
2	Landing Valve					
2.1	Make					
2.2	Model					
2.3	Diameter	65mm Ø				
2.4	Height	<0.75m above floor level				
2.5	Material	Heavy gauge galvanised iron				
2.6	Location	Within fire access lobbies Protected staircases / lobbies				
2.7	Manufacturer's Name	Marked				
3	Breeching Inlet					
3.1	Make					
3.2	Model					
3.3	Type	4 way				
3.4	Drain valve	Lowest point of riser				
3.5	Location	<18m from fire appliance access road and <30m from the nearest external hydrant outlet				
4	Riser Pipe					
4.1	Size	150 mm Ø				
4.2	Material	Heavy gauge galvanised iron				
4.3	Maximum Test Pressure	21 bars				
4.4	Top of riser	Air release valve				
4.5	More than one riser	Distance between the risers <60m				
4.6	Return pipe	Heavy gauge galvanised iron				
5	Test					
5.1	Static Pressure Test measured at the breeching inlet	1. 14 bars for 2 hours				
		2. 1.5 times working pressure for 24 hours				
5.2	Flow test	3 way outlet on the roof or topmost floor				

6	PIPING				
6.1	Material	Galvanised steel, class C			
6.2	Joints - >100 mm Ø	Flanged			
6.3	<100 mm Ø	Screwed and socketed			
6.4	All changes of direction of the pipe run	Standard bends or long turn fittings			
6.5	Welding works	Not allowed			
7	Underground Piping				
7.1	Material	Galvanised steel, class C,			
7.2	Wrapping	Factory wrapped externally with bituminous			
7.3	Pipe marker (above ground)	20' interval			
7.4	Burried	900 mm below the surface			
8	PIPE SUPPORTS				
8.1	Vertical runs	steel clamps <1.8 metre centre			
8.2	horizontal runs	suitable steel hangers at < 2.4 metre centre			
8.3	At the lowest point of a vertical riser	additional support shall be used to support from the floor level			
9	PIPEWORK ACCESSORIES AND FITTINGS				
9.1	Flexible Couplings	Wire and fibre moulded high-pressure rubber type			
9.2	Strainers	Installed upstream of all pumps			
9.3	Material	<50 mm diameter screwed steel or bronze body type	* check 50 mm		
9.4	Pressure gauges	>150 mm diameter dial face type Industrial type shock proof, oil filled, stainless steel casing and IP 65 Ingress Protection Rating			
9.5	Pressure switches	pressure range of 0 – 10 bar depending on the line pressure of the system			
10	STORAGE TANK				
10.1	Material	Hot Dipped Galvanised Pressed Steel			
10.2	Thickness	5 mm or as specified			

11	Hot-Dipped Galvanised Pressed Steel					
11.1	Tank Accessories					
		(a) Level indicator of the float type;				
		(b) External and internal access ladders - stainless steel;				
		(c) Overflow pipe				
		(d) Scour pipe				
		(e) Inlet pipe c/w float ball (brass) valve (BS 1968 : 1953) and gate valve				
		(f) Outlet pipe connections to pumps;				
		(g) Galvanised vent pipe of 75 mm diameter in the form of swan neck and covered with stainless steel insect screen;				
		(h) One number of 600 mm diameter manholes with hinged cover situated near the water inlet pipes.				
		(i) Warning pipe				
		(j) Stainless steel electrodes				
12	PUMPS					
12.1	Make					
12.2	Model					
12.3	Type	Heavy duty centrifugal				
12.4	Operation	1. Starts when pressure falls 20% of normal static pressure				
		2. Standby starts when duty fails				
13	DIESEL ENGINE					
13.1	Make					
13.2	Model					
13.3	Starting	Auto & manual				
13.4	Stopping	Manual				
13.5	Battery	Placed in a lockable box				
13.6	Charger	Required				
14	FUEL TANK					
14.1	Capacity					
14.2	Level indicator					
14.3	Material	Mild steel				
15	GENERAL					
15.1	Pipes passing through walls/floors	Through sleeves				