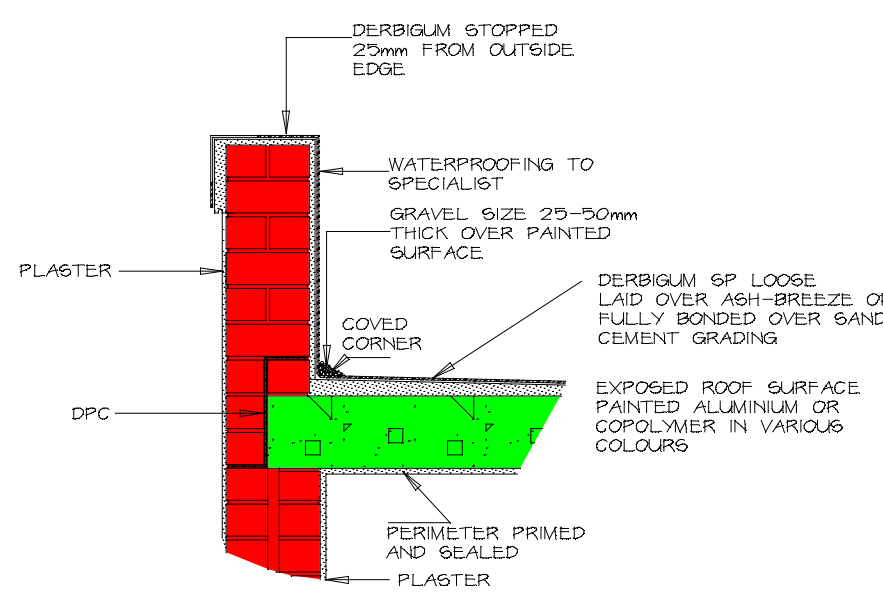
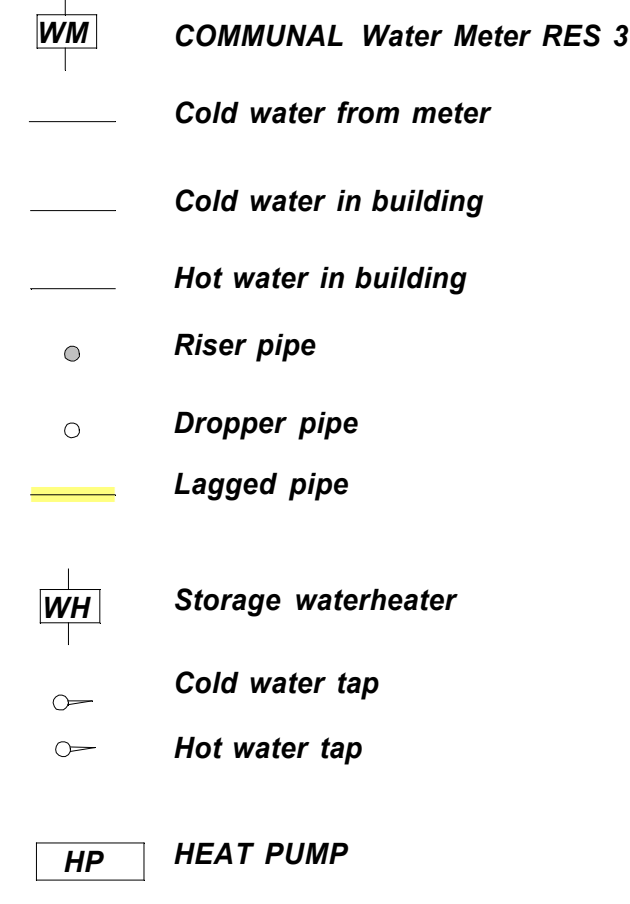


Table 2 - Average water consumption (hot and cold) appliances				Table 5 - Hot water demand, storage and heater power requirements			
1	2	3	4	1	2	3	4
Domestic and commercial appliances	L/operation	No of fittings	Total/operation	Hot water demand at 60°C	Storage volume at 60°C	Heater power*	
Bath	80 - 90	1	90				
Bidet	6 - 8	/					
Clothes washing machine	60 - 180	1	150				
Dishwashing machine	3 - 70	1	60				
Domestic waste disposal unit	10 - 15 a	/					
Shower	3 - 6 a	2	12				
Wash-hand basin	4 - 8	3	12				
WC flushing - water (normal flush)	8 - 10	2	18				
Domestic appliances	L/day/person served			159	150	20	
Car washing and garden use	3 - 6	1	6				
Drinking, food preparation and cooking	18 - 22	1	18				
Laundry	10 - 15						
Personal washing and bathing	20 - 30						
Washing dishes	8 - 12	2	20				
WC flushing	32 - 40	2	70				
Office installation appliances	L/day/person served						
Hand washing - normal taps	8 - 15	3					
Hand washing - spray taps	3 - 7						
Urinal flushing - 8 h day	10 - 18						
Urinal flushing - no urinals provided	12 - 18						
WC flushing - urinals provided	4 - 6	2					
a Per minute							
		TOTAL	456				

SANS 10252-1			
1	2	3	4
Premises	Total hot water demand	Storage volume at 60°C	Heater power*
Clinics	(120-150) L/bed/d	(30-35) L/bed/d	1.5 kW/bed/d
Colleges and schools			
Day school	(10-12) L/capita/d	(5-6) L/capita	0.1 kW/capita
Boarding school	(50-115) L/capita/d	(25-50) L/capita	0.5-0.8 kW/capita
Dwelling houses			
Low rental	(80-115) L/capita/d	(100-180) L/capita	2-3 kW/unit
Medium to high rental	(115-140) L/capita/d	(40-50) L/capita	2-5 kW/unit
Factories			
Staff	(10-20) L/capita/d	(5-7) L/capita/d	0.1 kW/capita
Abitations	(30-60) L/capita/d	(30-60) L/capita/d	1.5-2 kW/capita
Flats (blocks)			
Low rental	(65-75) L/capita/d	(20-25) L/capita	2-3 kW/capita
Medium to high rental	(115-140) L/capita/d	(25-35) L/capita	2-5 kW/capita
a Refer to direct electrical heating elements only			
b Excluding kitchen but including laundry			
c Storage normally a minimum of 15 L with a 4 h heat-up period			

WATER RETICULATION LEGEND



4.4.5 - ROOF ASSEMBLIES SANS 10400 - PART XA - 2011

