

DESCRIPTION OF THE TOWER

6 bells rung from an upper ringing room with a clock floor above and then the bell chamber.

The bells were replaced in 1954 on a new steel frame.

Ropes for all bells drop vertically from the bell chamber to the ringing chamber. No interim pulleys are used to guide the ropes.

When set at backstroke, sallies of bells 1 -4 remain in ringing chamber while sallies of bells 5 and 6 partially pass through ceiling boss.

DIMENSIONS OF TOWER

Ringling room floor to ceiling: 16'- 10" (5.13m)

Thickness of ringing room ceiling: 9" (23cm)

Clock room floor to ceiling: 13'- 5" (4.1m)

Thickness of clock room ceiling: 2" (5cm)

Ringling room floor to bell chamber floor: 31'- 2" (9.49m)

Nominal bottom of sally to ringing room floor: 5'-6"(1.68m)

Nominal length of rope lashed around the bell wheel: 16' (4.9m)

Nominal length of sally on all bells: 3' (0.91m)

DIMENSIONS OF BELLS AND ROPES

Bell	Weight		Wheel diameter		Garter hole to bell chamber floor		Length of single rope below sally of existing rope		Total rope length (see below) (to nearest 5 feet)		Remarks
	cwt-q-lb	kg	ft-ins	m	ft-ins	m	ft-ins	m	ft	m	
1	5-1-6	269	4'- 9"	1.45	7'- 9"	2.36	10'-0"	3.05	60'	18.29	Passes through clock casing
2	5-1-0	267	4'- 10"	1.47	7'- 7"	2.32	10'-0"	3.05	60'	18.29	
3	6-1-4	319	4'- 11"	1.51	7'- 3"	2.20	10'-0"	3.05	60'	18.29	
4	8-0-17	414	5'- 2"	1.58	7'- 10"	2.39	10'-3"	3.12	60'	18.29	
5	11-2-0	584	5'- 7"	1.70	8'- 0"	2.43	11'-0"	3.35	60'	18.29	
6	13-3-0	699	6'- 1"	1.85	7'- 8"	2.33	11'-3"	3.43	60'	18.29	Passes through clock casing

For EACH BELL- Total rope length calculated as = (ringing room floor to bell chamber floor – nominal bottom of sally to ringing room floor) + (length of rope lashed around bell wheel) + (garter hole to bell chamber floor) + (length of single rope below sally).

Top of rope – pre-stretched polyester. Remainder – flax.

BELL	Ringling room floor to bell chamber floor	Nominal bottom of sally to ringing room floor	Length of rope lashed around wheel	Garter hole to bell chamber floor		Length of Single rope below sally.		Calculated Total length of rope required	
		LESS	PLUS	PLUS		PLUS		TOTAL	
				ft-ins	m	ft-ins	m	ft-ins	m
1	31'- 2" (9.49m)	5'-6"(1.68m)	16' (4.9m)	7'- 9"	2.36	10'-0"	3.05	59'- 5"	18.11
2				7'- 7"	2.32	10'-0"	3.05	59'- 3"	18.06
3				7'- 3"	2.20	10'-0"	3.05	58'- 11"	17.96
4				7'- 10"	2.39	10'-3"	3.12	59'- 9"	18.21
5				8'- 0"	2.43	11'-0"	3.35	60'- 8"	18.49
6				7'- 8"	2.33	11'-3"	3.43	60'- 9"	18.52