



217 WR 33 102 SD 4L 4Ω

850131

High quality 8" woofer with Peerless' "Sandwich" cone. This 4Ω version of the 850130 CSC woofer is supplied with a heavy magnet and has got high sensitivity.

The 850131 is suitable for a wide range of reflex boxes of 12-90 ltrs. Please remark that when used in a 90 ltrs. box a -3 dB frequency of 30 Hz is obtainable.

Further, it can also be used in smaller closed boxes of 10-20 ltrs.



CSC 217

**Thiele Small parameters:**

Nominal impedance	Zn (Ω)		
Minimum impedance/at freq.	Zmin (Ω/Hz)		
Maximum impedance	Zo (Ω)		
Dc resistance	Re (Ω)		
Voice coil inductance	Le (mH)		
Capacitor in series with 4 Ω (for impedance compensation)	Cc (μF)		
Resonance Frequency	fs (Hz)	28.8	28.0
Mechanical Q factor	Qms	3.73	3.84
Electrical Q factor	Qes	0.40	0.41
Total Q factor	Qts	0.36	0.37
F (Ratio fs/Qts)	F (Hz)		75
Mechanical resistance	Rms (Kg/s)		
Moving mass	Mms (g)	30.1	32.0
Suspension compliance	Cms (mm/N)		
Effective cone diameter	D (cm)		17.3
Effective piston area	Sd (cm <sup>2</sup> )		235
Equivalent volume	Vas (lts)		77.4
Force factor	Bl (N/A)		6.5
Reference voltage sensitivity	(dB)		91.5
Re 2.83V 1m at 154 Hz (Calculated)			

Free air Common Baffled

	Free air	Common	Baffled
Nominal impedance		4	
Minimum impedance/at freq.		3.4 / 154	
Maximum impedance		32.3	
Dc resistance		3.1	
Voice coil inductance		1.5	
Capacitor in series with 4 Ω (for impedance compensation)		64	
Resonance Frequency	28.8		28.0
Mechanical Q factor	3.73		3.84
Electrical Q factor	0.40		0.41
Total Q factor	0.36		0.37
F (Ratio fs/Qts)			75
Moving mass	30.1	1.46	32.0
Effective cone diameter		17.3	
Effective piston area		235	
Equivalent volume		77.4	
Force factor		6.5	
Reference voltage sensitivity			91.5

**Magnet and voice coil parameters:**

Voice coil diameter	d (mm)	33
Voice coil length	h (mm)	17
Voice coil layers	n	4
Flux density in gap	B (T)	0.95
Total useful flux	(mWb)	0.90
Height of the gap	hg (mm)	6
Diameter of magnet	dm (mm)	102
Height of magnet	hm (mm)	20
Weight of magnet	(kg)	0.68

**Max linear SPL:**