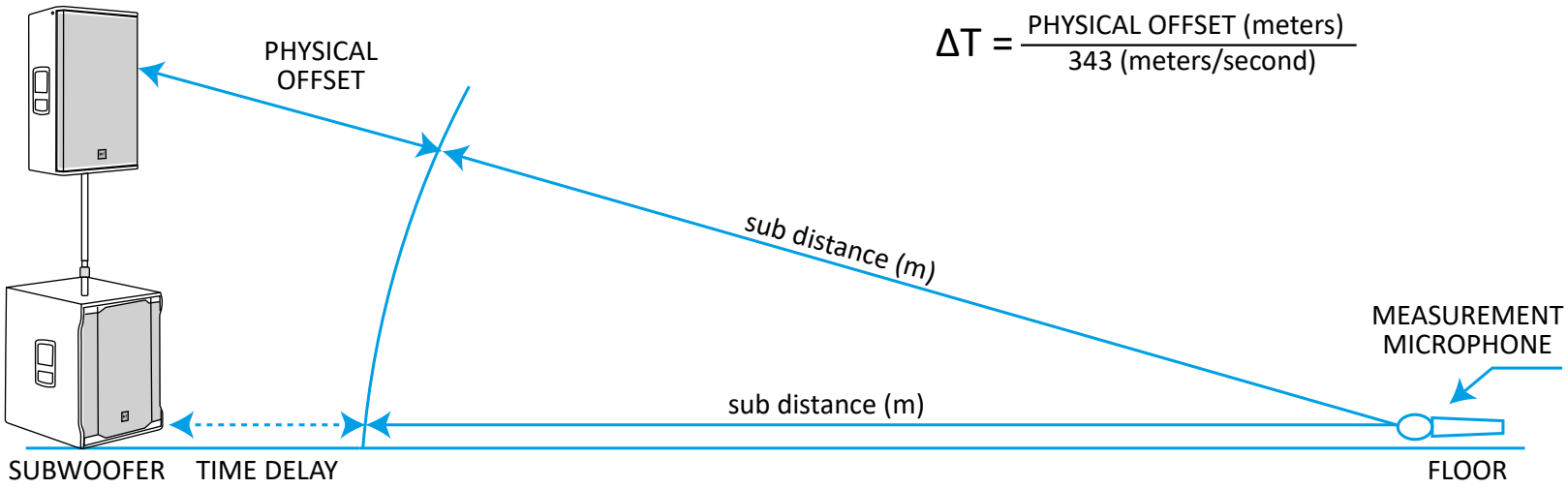
KNOWLEDGE BASE

PRE-ALIGNMENT DELAYS

ART 315-A MK4

All RCF active speakers feature FiRPHASE processing for a 0° linear-phase response. This means that a perfect phase alignment with other RCF speakers and subwoofers only requires a simple time delay. Time delay is already available onboard RCF HDL and TT+ speakers. Systems without internal delay require an external capable device.

Insert the following pre-alignment values into your RCF speaker's back panel, RDNet manager or external delay device to provide perfect time alignment when paired with RCF subwoofers. For suspended speakers, add (or subtract) delay-values measuring the PHYSICAL OFFSET between the SPEAKER and the SUBWOOFER as in the following scheme:



ART 315-A Mk4

Subwoofer

Loudspeaker type	ART 315-A		SUB 702-AS II		SUB 705-AS II		SUB 708-AS II		SUB 905-A II		SUB 8003-AS II		SUB 702-AS Mk3		SUB 705-AS Mk3		SUB 708-AS Mk3		SUB 905-A Mk3		SUB 8003-AS Mk3		SUB 8004-AS		SUB 8008-AS	
Preset	Full Range		80Hz		80Hz		80Hz		30 - 80Hz (**L2**)		30 - 80Hz (**L2**)		110Hz		110Hz		110Hz		30 - 80Hz (**L2**)		30 - 80Hz (**L2**)		90Hz		30 - 80Hz (**L2**)	
Polarity	[+] / 0°		[-] / 180°		[+] / 0°		[-] / 180°		[+] / 0°		[+] / 0°		[-] / 180°		[-] / 180°		[-] / 180°		[+] / 0°		[+] / 0°		[+] / 0°		[+] / 0°	
Link or X-Over Output			X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output		X-Over Output	
Pre-alignment delay	0.0 ms	0.0 m	0.0 ms	0.0 m																						
	0.0 ms	0.0 m			0.0 ms	0.0 m																				
	0.0 ms	0.0 m					0.0 ms	0.0 m																		
	0.0 ms	0.0 m							12.8 ms	4.4 m																
	0.0 ms	0.0 m									9.3 ms	3.2 m														
	0.0 ms	0.0 m											0.0 ms	0.0 m												
	0.0 ms	0.0 m													0.0 ms	0.0 m										
	0.0 ms	0.0 m															0.0 ms	0.0 m								
	0.0 ms	0.0 m																	11.9 ms	4.1 m						
	0.0 ms	0.0 m																			9.8 ms	3.4 m				
	0.0 ms	0.0 m																					7.3 ms	2.5 m		
	0.0 ms	0.0 m																							9.8 ms	3.4 m

ΔT (ms) = Physical Offset (m) / 0.343 (m/ms)
Ø - polarity reverse [+]=0° Phase [-]=180° Phase
To convert milliseconds (ms) values in meters, multiply them by 0.343