



Wind Beams are horizontal members positioned in between the upper and lower wall frames where there is no floor framing, such as stair voids. The purpose of Wind Beams is to transfer the horizontal wall loads, directly or indirectly, back to the braced walls.

Vertical roof and wall loads above the Wind Beam are assumed to be transferred directly to the lower wall framing. Wind Beam designs do not consider these loads.

Allowable Horizontal Deflection of Wind Beams is the less of $\text{Span}/200$ and 15mm. This may result in damage to brittle claddings or wall linings during extreme weather events.

Bottom Plate of Upper Frame and Top / Ribbon Plate of Lower Frame to be fixing to the Wind Beam at a maximum of 600mm centres.



Frame Height		Beam Width	Wind Load Category				Frame Height		Beam Width	Wind Load Category			
Lower	Upper		N2	N3	C2	C3	Lower	Upper		N2	N3	C2	C3
240mm Beam Height - Metsä Kerto S-beam PLUS													
2440	2440	45mm	2300	2000	1800	1600	2740	2440	45mm	2300	2000	1700	1500
		63mm	3200	2800	2500	2200			63mm	3100	2800	2400	2100
	2590	45mm	2300	2000	1700	1500		2590	45mm	2300	2000	1700	1500
		63mm	3200	2800	2500	2200			63mm	3100	2800	2400	2100
	2740	45mm	2300	2000	1700	1500		2740	45mm	2200	1900	1700	1500
		63mm	3100	2800	2400	2100			63mm	3100	2700	2400	2100
2590	2440	45mm	2300	2000	1700	1500	3050	2440	45mm	2200	1900	1700	1500
		63mm	3200	2800	2500	2200			63mm	3100	2700	2400	2100
	2590	45mm	2300	2000	1700	1500		2590	45mm	2200	1900	1700	1500
		63mm	3100	2800	2400	2100			63mm	3100	2700	2400	2100
	2740	45mm	2200	2000	1700	1500		2740	45mm	2200	1900	1600	1500
		63mm	3100	2800	2400	2100			63mm	3100	2700	2300	2100

Frame Height		Beam Width	Wind Load Category				Frame Height		Beam Width	Wind Load Category			
Lower	Upper		N2	N3	C2	C3	Lower	Upper		N2	N3	C2	C3
300mm Beam Height - Metsa Kerto S-beam PLUS													
2440	2440	45mm	2500	2200	1900	1700	2740	2440	45mm	2500	2100	1900	1600
		63mm	3400	3000	2700	2400			63mm	3300	3000	2600	2300
	2590	45mm	2500	2200	1900	1700		2590	45mm	2400	2100	1800	1600
		63mm	3400	3000	2700	2300			63mm	3300	3000	2600	2300
	2740	45mm	2500	2100	1900	1600		2740	45mm	2400	2100	1800	1600
		63mm	3400	3000	2600	2300			63mm	3300	3000	2600	2200
2590	2440	45mm	2500	2200	1900	1700	3050	2440	45mm	2400	2100	1800	1600
		63mm	3400	3000	2700	2300			63mm	3300	3000	2600	2300
	2590	45mm	2500	2100	1900	1600		2590	45mm	2400	2100	1800	1600
		63mm	3400	3000	2600	2300			63mm	3300	2900	2500	2200
	2740	45mm	2500	2100	1800	1600		2740	45mm	2400	2100	1800	1600
		63mm	3400	3000	2600	2300			63mm	3200	2900	2500	2200
360mm Beam Height - Metsa Kerto S-beam PLUS													
2440	2440	45mm	2700	2300	2000	1800	2740	2440	45mm	2600	2300	2000	1700
		63mm	3500	3200	2900	2500			63mm	3500	3100	2800	2500
	2590	45mm	2600	2300	2000	1800		2590	45mm	2600	2200	2000	1700
		63mm	3500	3200	2800	2500			63mm	3500	3100	2800	2400
	2740	45mm	2600	2300	2000	1700		2740	45mm	2600	2200	1900	1700
		63mm	3500	3100	2800	2500			63mm	3400	3100	2700	2400
2590	2440	45mm	2600	2300	2000	1800	3050	2440	45mm	2600	2200	1900	1700
		63mm	3500	3200	2800	2500			63mm	3400	3100	2700	2400
	2590	45mm	2600	2300	2000	1700		2590	45mm	2500	2200	1900	1700
		63mm	3500	3100	2800	2500			63mm	3400	3100	2700	2400
	2740	45mm	2600	2200	2000	1700		2740	45mm	2500	2200	1900	1700
		63mm	3500	3100	2800	2400			63mm	3400	3000	2700	2400
400mm Beam Height - Metsa Kerto S-beam PLUS													
2440	2440	45mm	2700	2400	2100	1900	2740	2440	45mm	2700	2400	2000	1800
		63mm	3600	3300	3000	2600			63mm	3600	3200	2900	2500
	2590	45mm	2700	2400	2100	1800		2590	45mm	2700	2300	2000	1800
		63mm	3600	3200	2900	2600			63mm	3500	3200	2900	2500
	2740	45mm	2700	2400	2000	1800		2740	45mm	2600	2300	2000	1800
		63mm	3600	3200	2900	2600			63mm	3500	3200	2800	2500
2590	2440	45mm	2700	2400	2100	1800	3050	2440	45mm	2600	2300	2000	1800
		63mm	3600	3200	2900	2600			63mm	3500	3200	2800	2500
	2590	45mm	2700	2400	2100	1800		2590	45mm	2600	2300	2000	1800
		63mm	3600	3200	2900	2500			63mm	3500	3100	2800	2500
	2740	45mm	2700	2300	2000	1800		2740	45mm	2600	2200	2000	1700
		63mm	3500	3200	2900	2500			63mm	3500	3100	2800	2500