

Spindle RPM for Recommended Peripheral Speed by m/sec. for Alpha® Silencer III Blades

Blade Diameter	Sintered Slab / Porcelain (32 - 45 m/s)**	Crystallized Glass (32 - 45 m/s)**
12" (300mm)	2000 ~ 2900	2000 ~ 2900
14" (350mm)	1700 ~ 2500	1700 ~ 2500
16" (400mm)	1500 ~ 2200	1500 ~ 2200
18" (450mm)	1400 ~ 1900	1400 ~ 1900
20" (500mm)	1200 ~ 1700	1200 ~ 1700

Blade Diameter	Soft Granite (Class 1–3) (32 - 35 m/s)	Hard Granite Class (4+5) (26 - 30 m/s)	Quartzite* (25 - 28 m/s)	Eng. Stone/Quartz Surface (32 - 35 m/s)
12" (300mm)	2000 ~ 2200	1700 ~ 1900	1600 ~ 1800	2000 ~ 2200
14" (350mm)	1700 ~ 1900	1400 ~ 1600	1400 ~ 1500	1700 ~ 1900
16" (400mm)	1500 ~ 1700	1200 ~ 1400	1200 ~ 1300	1500 ~ 1700
18" (450mm)	1400 ~ 1500	1100 ~ 1300	1100 ~ 1200	1400 ~ 1500
20" (500mm)	1200 ~ 1300	1000 ~ 1100	1000 ~ 1100	1200 ~ 1300

Blade Diameter	White Crystalline Marble (50 - 55 m/s)	Colored Marble (45 - 50 m/s)	Travertine (45 - 60 m/s)	Sandstone (50 - 60 m/s)
12" (300mm)	3200 ~ 3500	2900 ~ 3200	2900 ~ 3800	3200 ~ 3800
14" (350mm)	2700 ~ 3000	2500 ~ 2700	2500 ~ 3300	2700 ~ 3300
16" (400mm)	2400 ~ 2600	2200 ~ 2400	2200 ~ 2900	2400 ~ 2900
18" (450mm)	2100 ~ 2300	1900 ~ 2100	1900 ~ 2500	2100 ~ 2500
20" (500mm)	1900 ~ 2100	1700 ~ 1900	1700 ~ 2300	1900 ~ 2300

Optimum Linear Traverse Speed

Slab Thickness	1/2" (12mm)		3/4" (20mm)		1-1/4" (30mm)		
	Material	Straight	Miter	Straight	Miter	Straight	Miter
Sintered Slab / Porcelain		66" (1.7m)	33" (0.85m)	40" (1.0m)	20" (0.5m)	25" (0.7m)	12.5" (0.35m)
Crystallized Glass		66" (1.7m)	33" (0.85m)	40" (1.0m)	20" (0.5m)	25" (0.7m)	12.5" (0.35m)
Soft Granite (Class 1–3)		164" (4.2m)	82" (2.1m)	100" (2.5m)	50" (1.25m)	66" (1.7m)	33" (0.85m)
Hard Granite (Class 4+5)		100" (2.5m)	50" (1.25m)	60" (0.75m)	30" (0.38m)	40" (1.0m)	20" (0.5m)
Quartzite		70" (1.8m)	35" (0.9m)	40" (1.0m)	20" (0.5m)	26" (0.66m)	13" (0.33m)
Eng. Stone / Quartz Surface		200" (5.0m)	100" (2.5m)	120" (3.0m)	60" (1.5m)	80" (2.0m)	40" (1.0m)
White Crystalline Marble		820" (21.0m)	410" (10.5m)	500" (12.5m)	250" (6.25m)		
Colored Marble		660" (16.5m)	330" (6.3m)	400" (10.0m)	200" (5.0m)		
Travertine		660" (16.5m)	330" (6.3m)	400" (10.0m)	200" (5.0m)		
Sandstone		1150" (45.0m)	570" (22.5m)	690" (17.5m)	345" (8.75m)		

* If variable speed control is available, Alpha® recommends using the lower end of the range for better results.

** If variable speed control is available, Alpha® recommends using the higher end of the range for better results.