

Comparison of Waste Generation Door Shield vs. Old-School Methods of Door Protection

Material	Dimensions			Waste per Unit	
	Height (inches)	Width (inches)	Thickness (inches)	Volume (inches ³)	Volume (feet ³)
Corex (1 sheet)	96	48	0.1875	864	6.00
Corex (2 sheets)	192	48	0.1875	1,728	12.00
Door Shield (1 side- 3070)	84	36	0.1875	567	3.94
Door Shield (2 sides- 3070)	168	36	0.1875	1,134	7.88
Door Shield (1 side - 3080)	96	36	0.1875	648	4.50
Door Shield (2 sides - 3080)	192	36	0.1875	1,296	9.00

Scenario 1: Protect 50 - 3070 doors, use Door Shields one time and recycle	
Waste from Corex	600.00 feet ³
Waste from Door Shield	393.75 feet ³
Ratio: Door Shield Waste/Corex Waste	65.6%

Scenario 2: Protect 150 - 3070 doors, use Door Shields 3 times each and recycle	
Waste from Corex	1,800.00 feet ³
Waste from Door Shield	393.75 feet ³
Ratio: Door Shield Waste/Corex Waste	21.9%

Scenario 3: Protect 50 - 3080 doors, use Door Shields one time and recycle	
Waste from Corex	600.00 feet ³
Waste from Door Shield	450.00 feet ³
Ratio: Door Shield Waste/Corex Waste	75.0%

Scenario 4: Protect 150 - 3080 doors, use Door Shields 3 times each and recycle	
Waste from Corex	1,800.00 feet ³
Waste from Door Shield	450.00 feet ³
Ratio: Door Shield Waste/Corex Waste	25.0%

When Door Shields are used three times, **they generate 20% to 25% of the solid waste generated by using old-school door protection methods** (using two sheets of 4 X 8 Corex or equivalent board, cutting the board to fit and taping sheets to both faces of the door - used once and then thrown away). When Door Shields are re-used six times, the waste generated is about 10% of the waste generated by old-school methods.

