

# TCNA GREEN REPORT

## LIFE-CYCLE COST STUDY



Because a tile installation will last as long as the building it's installed in, its environmental impacts are minimal when compared to other surface coverings that would

have to be replaced numerous times over the life of the building. This also means tile costs less per square foot over the long haul, whereas carpet, vinyl, and other floor coverings are significantly more expensive due to their replacement, maintenance, and refinishing requirements.

Construction cost consulting firm Scharf-Godfrey compared the life-cycle costs of various flooring types. The per year cost for each flooring type includes installation, maintenance, and removal costs. Their comparison, provided below, shows why ceramic tile is the natural choice for sustainable design and long-term value.

### Life-Cycle Costs for Floor Finishes (per square foot)

Floor Finish	Installed Cost	Life Cycle Cost	Expected Life (y)	Cost Per Year
Quarry Tile	\$6.83	\$16.13	50	\$0.32
Glazed Ceramic Floor Tile	\$7.00	\$16.30	50	\$0.33
Glazed Porcelain Tile	\$8.34	\$17.64	50	\$0.35
Mosaic Tile	\$8.20	\$17.50	50	\$0.35
Unglazed Porcelain	\$8.30	\$17.60	50	\$0.35
Natural Hardwood	\$9.31	\$20.80	50	\$0.42
Travertine-Turkish	\$12.50	\$21.80	50	\$0.44
Marble	\$21.00	\$30.30	50	\$0.61
Laminate	\$8.84	\$17.77	25	\$0.71
Man-Made Hardwood	\$9.58	\$18.51	25	\$0.74
Portland Cement Terrazzo	\$14.88	\$24.27	30	\$0.81
Stained Concrete	\$12.40	\$24.60	25	\$0.98
Carpet	\$3.22	\$ 6.50	6	\$1.08
Resin Terrazzo	\$8.50	\$16.53	15	\$1.10
Sheet Vinyl	\$6.90	\$13.90	10	\$1.39
Poured Epoxy	\$8.18	\$15.18	10	\$1.52
VCT	\$3.91	\$18.35	10	\$1.83