

Access doors shall be constructed of steel, aluminum, or concrete with an approved non-slip surface having a static coefficient of friction between 0.60 and 1.00 as determined by ASTM Designation C 1028-89. Access doors on inclined surfaces greater than 4% shall have a coefficient of friction between 0.80 and 1.00.

Owners are responsible to maintain the non-slip characteristics of the access door over its life in the sidewalk area.

Approved Metal Non-slip surfaces (July 2003)

Product	COF	Manufacturer
SlipNOT Grip Plate Grade 1 (Fine) Grade 2 (Medium) in Galvanized Steel or Aluminum	0.95 0.98	SlipNOT Safety Flooring, W.S. Molnar Company, Detroit, MI Website: www.slipnot.com
Mebac Grade 3, Galvanized Steel Mebac Grade 2, Galvanized Steel Mebac Grade 2, Aluminum EZ Weld, Aluminum	0.96 0.93	IKG Mebac Slip Resistant Metal Surfaces, IKG Industries, Harsco Corporation, Clark, NJ Website: www.ikgindustries.com
Algrip 2000	0.80	Grating Pacific LLC, Seattle, WA Website: www.gratingpacific.com
ALCOA Aluminum Tread Plate - Lightly sandblasted	0.87	LW Products, Woodinville, WA Website: www.lwproducts.net/
Gratemaster Transformer Vault Ventilation Grate used by PGE 13.5" X 13.5" surface area	0.70	Gratemaster Inc. PO Box 1040 North Plains, OR 97133-1040
Synertech Underground Products Oldcastle Precast underground enclosures – Used by Qwest High Density Polymer Concrete	0.88	Utility Vault Company Division of Oldcastle Precast, Inc. Website: www.oldcastle-precast.com Wilsonville, OR [503.682.2844]
Syracuse Castings Safety Sure Grip Diamond Plate, Syracuse Castings, Cicero NY Used by BWV	0.94	Utility Vault Company Division of Oldcastle Precast, Inc. Website: www.oldcastle-precast.com Wilsonville, OR [503.682.2844]
US Castings, Entiat, WA 332 Aluminum Cast Doors for Utility Vault Company	0.98	Utility Vault Company Division of Oldcastle Precast, Inc. Website: www.oldcastle-precast.com Wilsonville, OR [503.682.2844]
Qwest 30 Cast Iron Manhole cover Qwest, Attn: Scott Miller 8021 SW Capitol Hill Road / 110 Portland, OR 97219	0.80	Utility Vault Company Division of Oldcastle Precast, Inc. Website: www.oldcastle-precast.com Wilsonville, OR [503.682.2844]

Additional products may be approved by the City Engineer on an "approved equal" basis. COF – Coefficient of Friction (wet)