

## Approved Metal Non-slip surfaces (July 2006)

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 <a href="http://www.slipnot.com">www.slipnot.com</a>
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 <a href="http://www.ikgindustries.com">www.ikgindustries.com</a>
Algrip 2000	0.80	Grating Pacific LLC Seattle, WA <a href="http://www.gratingpacific.com">www.gratingpacific.com</a>
ALCOA Aluminum Tread Plate – Lightly sandblasted	0.87	LW Products Woodinville, WA <a href="http://www.lwproducts.net/">www.lwproducts.net/</a>
Gratemaster Transformer Vault Ventilation Grate used by PGE	0.70	Gratemaster, Inc. PO Box 1040 North Plains, OR 97133-1040
Synertech Underground Products, Oldcastle Precast underground enclosures - High Density Polymer Concrete Used by Qwest.	0.88	Utility Vault Company Division of Oldcastle Precast, Inc. Wilsonville, OR (Phone: 503-682-2844) <a href="http://www.oldcastle-precast.com">www.oldcastle-precast.com</a>
Syracuse Castings Safety Sure Grip Diamond Plate Syracuse Castings of Cicero, NY Used by BWW	0.94	Utility Vault Company Division of Oldcastle Precast, Inc. Wilsonville, OR (Phone: 503-682-2844) <a href="http://www.oldcastle-precast.com">www.oldcastle-precast.com</a>
US Castings Entiat, WA 332 Aluminum Cast Doors for Utility Vault Company	0.98	Utility Vault Company Division of Oldcastle Precast, Inc. Wilsonville, OR (Phone: 503-682-2844) <a href="http://www.oldcastle-precast.com">www.oldcastle-precast.com</a>
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. Wilsonville, OR (Phone: 503-682-2844) <a href="http://www.oldcastle-precast.com">www.oldcastle-precast.com</a>
Stormwater 360 Catch Basin Storm Filter Lid Storm Filter Vault Lid	0.90 – 0.96	Stormwater 360 12021-B NE Airport Way Portland, OR 97220 T: 800.548.4667 F: 800.561.1271 <a href="http://www.stormwater360.com">www.stormwater360.com</a>

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.

Additional products may be approved by the City Engineer on an "approved equal" basis.

\*COF – Coefficient of Friction (wet)