



**PORTLAND BUREAU OF TRANSPORTATION**

## Approved Non-slip Access Cover/Lid Surfaces

Access lids shall be constructed of steel, aluminum, concrete, or polymer 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 lids on inclines greater than 4% shall have a coefficient of friction between 0.80 and 1.00. Lids with openings greater than 0.5 inches (in the direction of travel) are not allowed in the pedestrian through zone (as defined in the Portland Pedestrian Design Guide).

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

\*TPZ – product allowed to be used in Through Pedestrian Zone

Product	COF (wet)	Manufacturer/Vendor	TPZ
SlipNOT Grip Plate Grade 2 (Medium) Galvanized Grade 3 (Course) Galvanized	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>	

Product	COF (wet)	Manufacturer/Vendor	TPZ
Contech Catch Basin Storm Filter Lid Storm Filter Vault Lid	0.90 – 0.96	Contech 12021-B NE Airport Way Portland, OR 97220 T: 800.548.4667 F: 800.561.1271 <a href="http://contech-cpi.com/stormwater/13">http://contech-cpi.com/stormwater/13</a>	
Brooks Precast Concrete Products Newbasis Water NewbasisSignal™	0.99 1.02	Brooks Product 10404 NE Marx Street, Portland, Or. 97220 Phone (503) 254-2910 Fax (503) 262-9673	
EJ World Wide (Tooele, UT) <a href="http://www.ejco.com">www.ejco.com</a> Diamond Plate with Safety Sure Grip	1.00	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>	✓



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