

**Approved Concrete Mix Designs**

**Nov 2, 2020**

Concrete Supplier	Mix Class-Agg	Supplier ID	Air	Slump	Design W/C	Binder	*GWP (kgCO2eq/yd <sup>3</sup> )	Approved Use	Date
Cadman Materials (Includes Port of Portland and Foster Rd Plants)	3300 psi - 1"	1587406	6.0%	4"	0.46	575# 13% Fly	277 - 290	Commerical Grade Concrete (00440)	Jan-19
	3500 psi - 3/4"	1391037	5.5%	4"	0.46	571# 14% Fly	272 - 301	Commerical Grade Concrete (00440)	Dec-19
	3500 psi - 1"	1589027	5.5%	4"	0.48	564# Cmt	308 - 316	Commerical Grade Concrete (00440)	Jan-19
	4000 psi - 3/8"	1308376	5.0%	4"	0.46	698# 16% Fly	399 - 439	Commerical Grade Concrete (00440)	Jun-20
	4000 psi - 3/8"	1353286	6.0%	5"	0.45	735# 10% Fly	356 - 385	Commerical Grade Concrete (00440)	Jan-19
	4000 psi - 1"	1529001	5.5%	4"	0.44	611# Cmt	332 - 339	Commerical Grade Concrete (00440)	Jan-19
	4000 psi - 1"	1308207	5.5%	4"	0.38	711# 14% Fly	331 - 340	Commerical Grade Concrete (00440)	Jan-19
	4000 psi - 1 1/2"	1585849	5.0%	4"	0.40	658# Cmt	358 - 365	Plain Concrete Pavement (00756)	Jan-19
5000 psi - 1"	1575362	5.0%	6"	0.40	675# 19% Fly	295 - 303	Structural Concrete (00540)	Jan-19	
100 psi - CLSM	1593506	8%	8"	1.08	425# 7% Fly	86 - 106	Controlled Low Strength Materials (00442)	Jan-19	
CalPortland (Includes Front Ave Plant)	3300 psi - 3/8"	0836	5.5%	4"	0.50	570# Cmt	343.06	Commerical Grade Concrete (00440)	Mar-20
	3000 psi - 3/4"	0226FS	5.5%	4"	0.57	470# 20% Slag	249.98	Commerical Grade Concrete (00440)	May-19
	3000 psi - 3/4"	0226FS00DT	5.0%	4"	0.50	490# 11% Slag	277.21	Commerical Grade Concrete (00440)	Jan-20
	3300 psi - 1"	0739	5.0%	4"	0.48	573# Cmt	344.26	Structural Concrete (00540)	Feb-19
	3500 psi - 1"	2588FS	5.0%	4"	0.47	570# 30% Slag	274.53	Commerical Grade Concrete (00440)	Aug-20
	3500 psi - 1"	0734	5.0%	4"	0.51	517# Cmt	314.47	Commerical Grade Concrete (00440)	Feb-19
	4000 psi - 1"	0742	5.0%	4"	0.47	564# Cmt	339.05 - 340.45	Structural Concrete (00540)	Feb-19
	4000 psi - 1"	0242FS	4.5%	4"	0.46	578# 12% Slag	320.01	Structural Concrete (00540)	Jan-20
	4000 psi - 1"	0444FS	6.0%	4"	0.42	626# 15% Slag	344.39	Structural Concrete [Severe Exposure] (00540)	Jan-20
	4000 psi - 1"	0446FS	5.0%	4"	0.45	600# 25% Slag	299.81	Structural Concrete (00540)	Aug-18
	4000 psi - 1 1/2"	0622CR	4.5%	4"	0.44	611# Cmt	372.35	Pavement (00756) & Structural (00540)	Jan-20
	5000 psi - 1"	0766	4.5%	4"	0.38	730# Cmt	433.87	Structural Concrete (00540)	Mar-20
	5000 psi - 1 1/2"	0688CR	4.5%	4"	0.35	750# Cmt	446.28	Pavement (00756) & Structural (00540)	May-20
	6000 psi - 3/8"	0862FS	6.0%	4"	0.36	680# Cmt	417.91	Commerical Grade Concrete (00440)	Mar-19
100 psi - CLSM	0570	7%	7"	2.52	188# Cmt	117.86	Controlled Low Strength Materials (00442)	Feb-19	
Knife River Sand & Gravel (Includes Coffee Lake, Hillsboro, Linnton, and Sundial Plants)	3000 psi - 3/4"	246KPG8F00	5.5%	4"	0.48	570# 30% Slag	206.59 - 238.62	Commerical Grade Concrete (00440)	Mar-19
	4000 psi - 1"	2440N17F00	4.5%	4"	0.45	600# 30% Slag	215.89 - 249.57	Structural Concrete (00540)	Apr-19
	4500 psi - 1"	2444N17009	4.5%	4"	0.44	630# Cmt	290.09 - 340.84	Commerical Grade Concrete (00440)	Jul-19
	4000 psi - 1 1/2"	2440V42009	4.5%	4"	0.42	680# Cmt	281.12	Plain Concrete Pavement (00756)	Apr-19
	5000 psi - 1"	2451NIK0S9	4.5%	6"	0.37	725# Cmt	330.67 - 389.08	Structural Concrete (00540)	Apr-19
100 psi - CLSM	24CILAW0H9	18%	8"	1.45	200# Cmt	113.21	Controlled Low Strength Materials (00442)	Apr-19	
Riverbend Materials - Hilroy	4000 psi - 3/4"	324065	5.0%	4"	0.43	564# 15% Fly Ash	266.07	Structural Concrete (00540)	Apr-20
Wilsonville Concrete Products 503-682-2525	3000 psi - 3/8"	35550014A	6.0%	4"	0.50	517# 30% Slag	169.12	Commerical Grade Concrete (00440)	Jun-20
	3000 psi - 3/4"	3036A3050	5.0%	4"	0.55	470# 30% Slag	154.26	Commerical Grade Concrete (00440)	Jun-20
	4000 psi - 3/4"	4021A0060	5.0%	4"	0.46	564# Cmt	229.76	Structural Concrete (00540)	Jun-20

Highlighted materials are approved for PWB piping with compliance to Specification section 01140.44 Install minimum 8 mils polyethylene encasement around the pipe and fittings. Concrete materials not to be placed directly against pipe or fittings.

**Mix Designs Approved for Small Quantity (less than 50yd<sup>3</sup> per project)**

Nov 2, 2020

Concrete Supplier	Mix Class-Agg	Supplier ID	Air	Slump	Design W/C	Binder	*GWP (kgCO <sub>2</sub> eq/yd <sup>3</sup> )	Approved Use	Date
CalPortland - Front Ave	4000 psi - 1"	0598FS	5.0%	4"	0.42	630# 15% Slag	No EPD/GWP submitted.	Structural Concrete (00540)	Mar-20
Jakes Mobile Mix	4000 psi - 3/4"	6 Sack 4000psi	4.5%	3"	0.60	583# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Jan-19
	100 psi - CLSM	CDF-100psi/94	7%	4 - 7"	0.60	94# Cmt	No EPD/GWP submitted.	Controlled Low Strength Materials (00442)	Sep-20
Knife River Sand & Gravel	100 psi - CLSM	24CILAWOH9	18%	8"	1.45	200# Cmt	No EPD/GWP submitted.	Controlled Low Strength Materials (00442)	Sep-20
Lake Shore Concrete Co.	3500 psi - 3/4"	35.101	5.0%	4"	0.44	564# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Jul-19
Millers Mini Mix, LLC	3500 psi - 3/4"	3500	5.0%	4"	0.39	611# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	May-19
Troutdale Sand & Gravel	3500 psi - 1"	3500-6 Sk	5.0%	4"	0.49	564# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	May-19
Tual.Val.Short Load	3300 psi - 3/4"	3300	5.0%	4"	0.47	500# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	May-14
	4000 psi - 3/4"	Structural 4000	5.0%	4"	0.45	560# Cmt	No EPD/GWP submitted.	Structural Concrete (00540)	May-14
Volume Concrete	3000 psi - 3/4"	3000psi Mix	5.5%	4"	0.60	540# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Feb-19
971-219-8604	3500 psi - 1/2"	3500psi Mix	5.5%	4"	0.60	564# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Feb-19
Westside Redi-Mix	4000 psi - 3/4"	00034	5.0%	4"	0.50	564# 21% Slag	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Mar-19
Wilsonville Concrete Products	3000 psi - 3/4"	3021A1050	5.0%	4"	0.55	470# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Jan-19
503-682-2525	3000 psi - 3/4"	30500016A	5.0%	4"	0.55	470# Cmt	No EPD/GWP submitted.	Commerical Grade Concrete (00440)	Jan-19
	4000 psi - 3/4"	40700001A	5.0%	4"	0.39	658# Cmt	No EPD/GWP submitted.	Structural Concrete (00540)	Jan-19

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NOTE: THIS LIST DOES NOT WAIVE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE QUALITY CONTROL TESTING AS OUTLINED IN THE APPROPRIATE SECTIONS OF THE ODOT MFTP