



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



May 7, 2020

Mr. Chris Dauphinais
President
Dauphinais Concrete
P.O. Box 461
Sutton, MA 01590

Dear Mr. Dauphinais,

The following cement concrete mix design submittals have been reviewed by this section and are approved as specified below, for the duration of the annual approval cycle, and will expire on April 1, 2021. The approved mix designs are subject to performance at the plant, on the project or in the laboratory. Any changes will require new mix design submittals and trial batches.

Approved Plant Location and Mix Design Sheet Identification No.:

DAUPHINAIS CONCRETE - BELLINGHAM, MA: 20-01-14-09-22-00

Approved Cementitious & Mitigating Materials:

C1: TYPE I / II LEHIGH - CANAKKALE, TURKEY | SLAG: TYPE 120 LAFARGE NEWCEM - BALTIMORE, MD | SLAG: TYPE 120 LAFARGE NEWCEM - BALTIMORE, MD | SF: GRACE FORCE 10,000 D - CAMBRIDGE, MA

Approved Aggregates:

FINE1 PYNE SAND AND GRAVEL - DOUGLAS, MA | 3/8"1 CUMBERLAND QUARRY - CUMBERLAND, RI | 3/8"2 PYNE SAND AND GRAVEL - DOUGLAS, MA | 3/4"1 CUMBERLAND QUARRY - CUMBERLAND, RI | 3/4"2 PYNE SAND AND GRAVEL - DOUGLAS, MA | 1.5"1 CUMBERLAND QUARRY - CUMBERLAND, RI

Approved Admixtures:

AD1 TYPE F GCP AT - ADVA 140M | AD2 TYPE AEA GCP AT - DAREX II AEA | AD3 TYPE F GCP AT - EXP 950 | AD4 TYPE S GCP AT - DCI-S | AD5 TYPE D GCP AT - RECOVER | AD6 TYPE S GCP AT - DARAFILL CLSM

Approved Mix Designs:

- 1.) 3000 PSI | 3/4"1 | C1: 259 LBS. | SLAG: 259 LBS. | WATER: 31 GAL. | AD1: 35 OZ. | AD2: 2 OZ.
- 2.) 3500 PSI | 1.5"1 | C1: 268 LBS. | SLAG: 268 LBS. | WATER: 30 GAL. | AD1: 37.2 OZ. | AD2: 1.3 OZ.
- 3.) 4000 PSI | 3/8"1 | C1: 331 LBS. | SLAG: 331 LBS. | WATER: 36 GAL. | AD1: 46 OZ. | AD2: 5 OZ.

- 4.) 4000 PSI | 3/8"2 | C1: 497 LBS. | SLAG: 165 LBS. | WATER: 36 GAL. | AD1: 46 OZ. | AD2: 5 OZ.
- 5.) 4000 PSI | 3/4"1 | C1: 329 LBS. | SLAG: 329 LBS. | WATER: 35 GAL. | AD1: 46 OZ. | AD2: 4 OZ.
- 6.) 4000 PSI | SIDEWALK | 3/4"2 | C1: 484 LBS. | SLAG: 161 LBS. | WATER: 35 GAL. | AD1: 39 OZ. | AD2: 4 OZ.
- 7.) 4000 PSI | HP | 3/4"1 | C1: 293 LBS. | SLAG: 257 LBS. | SF: 35 LBS. | WATER: 28 GAL. | AD2: 5.5 OZ. | AD3: 25 OZ. | AD4: 384 OZ. | AD5: 11 OZ.
- 8.) 4000 PSI | 1.5"1 | C1: 303 LBS. | SLAG: 303 LBS. | WATER: 33 GAL. | AD1: 42 OZ. | AD2: 2.5 OZ.
- 9.) 5000 PSI | 3/4"1 | C1: 353 LBS. | SLAG: 353 LBS. | WATER: 34 GAL. | AD1: 49.4 OZ. | AD2: 5 OZ.
- 10.) 5000 PSI | HP | 3/8"1 | C1: 358 LBS. | SLAG: 315 LBS. | SF: 43 LBS. | WATER: 35 GAL. | AD2: 6.5 OZ. | AD3: 30 OZ. | AD4: 384 OZ. | AD5: 14 OZ.
- 11.) 5000 PSI | HP | 3/4"1 | C1: 343 LBS. | SLAG: 301 LBS. | SF: 43 LBS. | WATER: 33 GAL. | AD2: 6 OZ. | AD3: 29 OZ. | AD4: 384 OZ. | AD5: 13 OZ.
- 12.) | CDF TYPE 1E | C1: 80 LBS. | WATER: 35 GAL. | AD6: 1 OZ.
- 13.) | CDF TYPE 2 | C1: 200 LBS. | WATER: 35 GAL. | AD6: 1 OZ.

Sincerely,

Clement W. Fung
W. Fung

Digitally signed by
Clement W. Fung
Date: 2020.05.07
13:26:47 -04'00'

Clement W. Fung, P.E.

Acting Director of Research and Materials

AB/ds/rfm

Attachments

C: District 3 Materials Engineer

R&M Job File

