**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**

Batch ticket for Central and Transit Ready-Mix Concrete.

This document is to be completed individually and shall accompany each load of concrete delivered to projects that receive State and/or Federal funding.

**TO BE** **COMPLETED BY BATCH TECHNICIAN**

|  |  |  |
| --- | --- | --- |
| Ticket No.: | Date: **Click or tap to enter a date.** | Project No.:  |
| RM Company:  | State No.: RM  |
| Truck No.:  | Truck Load:  ( yd³) | Accumulated Yards:  ( yd³) |
| **Mix Design Quantities (per** **1 yd³)** |
| Class Concrete:  | Mix Design #:  |
| Cement:  (lbs.) | Pozzolan:  (lbs.) | Sand:  (lbs.) |
| Stone 1:  (lbs.) | Stone 2:  (lbs.) | Water:  (gals.) |
| Air Agent (name):  | Retarder (name):  | Max Water per yd³:  (gals.)  |
| Water Reducer:  | Other Admix.:  | Mortar Content:  |
| **Batched Quantities (per. Load)** |
| Cement:  (lbs.) | Tolerance:  (%)  | Pozzolan:  (lbs.) | Tolerance:  (%)  |
| Free Moisture F.A.:  (%) | Sand:  (lbs.) | Tolerance:  (%)  | Water in FA Moist.:  (gals.) |
| Free Moisture C.A. 1: (%) | Stone 1:  (lbs.) | Tolerance:  (%)  | Water in CA Moist.:  (gals.) |
| Free Moisture C.A. 2:  (%) | Stone 2:  (lbs.) | Tolerance:  (%)  | Water in CA Moist.:  (gals.) |
| Time batching completed: | Meter Water:(gals.) | Ice (if any):  (lbs.) | Total Water:  (gals.) |
| Number of revolutions at plant:  | Air agent oz./100# cementitious  | Water may be added:  (gals/yd³) |
| Water Reducer oz./100# cementitious | Retarder oz./100# cementitious  | Other Admixture: |
| Comments:  |

**By signing this, I certify that all the above information is correct and has been verified with batching documentation.**

 Certified Batch Technician: Cert. No.: Exp.\_\_\_\_\_\_\_\_\_\_\_\_\_

**TO BE COMPLETED BY ON-SITE INSPECTOR**

|  |  |
| --- | --- |
| Structure Member |  |
| Location & Station |  |
| Placement Method (i.e. Truck, Pump, Conveyor, etc.) |  |
| Additional Water  |  (Gals.) | Additional Air Agent | (oz.) | No. revolutions at job site |  |
| Time discharge begins |  | Time of discharge completed |   | Curing box used | [ ]  Yes **/** [ ]  No |
| Air Temperature |  | Concrete Temp. |  | Slump |  | Pressure air test |  |
| Air indicator steam reading \_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_ % Air  Correction Factor (Table 1) Curve Correction (Table 2) |
| Sample Number on Cylinder set made from this load: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Comments: |

**By signing this, I certify that all tests indicated by me have been completed and that all the above information is correct.**

 Certified Field Technician: Cert. No.: Exp.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **CHACE INDICATOR CORRECTION TABLES**

 \*Use only 70% Alcohol

**Table 1**

 **Mortar Correction Factors**

|  |  |
| --- | --- |
|  | **Chace Indicator** |
| **Mortar Content c. ft./yd** | **1.6** | **1.7** | **1.8** | **1.9** | **2.0** | **2.1** | **2.2** | **2.3** | **2.4** |
| **27** | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 |
| **20** | 1.19 | 1.26 | 1.33 | 1.41 | 1.48 | 1.56 | 1.63 | 1.71 | 1.78 |
| **19** | 1.13 | 1.20 | 1.27 | 1.34 | 1.41 | 1.48 | 1.55 | 1.62 | 1.69 |
| **18** | 1.07 | 1.11 | 1.20 | 1.27 | 1.33 | 1.40 | 1.47 | 1.54 | 1.60 |
| **17** | 1.01 | 1.07 | 1.13 | 1.20 | 1.26 | 1.33 | 1.39 | 1.45 | 1.51 |
| **16** | 0.95 | 1.01 | 1.07 | 1.13 | 1.19 | 1.25 | 1.30 | 1.36 | 1.42 |
| **15** | 0.89 | 0.95 | 1.00 | 1.06 | 1.11 | 1.17 | 1.22 | 1.28 | 1.33 |
| **14** | 0.83 | 0.88 | 0.93 | 0.99 | 1.04 | 1.09 | 1.14 | 1.19 | 1.24 |
| **13** | 0.77 | 0.82 | 0.87 | 0.92 | 0.96 | 1.01 | 1.06 | 1.11 | 1.16 |
| **12** | 0.71 | 0.76 | 0.80 | 0.85 | 0.89 | 0.94 | 0.98 | 1.03 | 1.07 |
| **11** | 0.65 | 0.69 | 0.73 | 0.77 | 0.81 | 0.86 | 0.90 | 0.94 | 0.98 |
| **10** | 0.59 | 0.63 | 0.67 | 0.71 | 0.74 | 0.78 | 0.81 | 0.85 | 0.89 |

**Table 2**

 **Curve Correction**

|  |  |  |  |
| --- | --- | --- | --- |
| **Mortar Corrected Air Content (%)** | **Curve Corrected (%)** | **Mortar Corrected Air Content (%)** | **Curve Corrected (%)** |
| 1.0 | -0.1 | 7.0 | 0.8 |
| 2.0 | 0.0 | 7.5 | 0.9 |
| 3.0 | 0.2 | 8.0 | 1.0 |
| 3.5 | 0.3 | 8.5 | 1.1 |
| 4.0 | 0.3 | 9.0 | 1.2 |
| 4.5 | 0.4 | 9.5 | 1.3 |
| 5.0 | 0.5 | 10.0 | 1.3 |
| 5.5 | 0.6 | 11.0 | 1.5 |
| 6.0 | 0.7 | 12.0 | 1.7 |
| 6.5 | 0.8 | 13.0 | 1.8 |