**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 |