

Mix design check list: Precast/Prestress (2018 Specifications- Section 510 & 540)

Concrete plant: _____

Mix design label: _____

Date created: _____

Disclaimer: The use of this sheet does not guarantee approval of submitted mix designs.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Class of Concrete			
2. Is mix:			
a) Conventional -----	___		
b) SCC -----	___		
3. State if aggregate weights are:			
a) Dry -----	___		
b) SSD -----	___		
4. 28-day design compressive strength listed -----	___	___	
5. Aggregate types, sources, specific gravities, absorptions -----	___	___	
a) Approved Aggregate Sources -----	___	___	
6. Cementitious content, sources, amounts -----	___	___	
7. Admixture names, sources, dosage -----	___	___	
8. Maximum W/C allowed during production from qualification testing -----	___	___	
9. Target air listed with tolerance -----	___	___	
10. Volumetric quantities of each material -----	___	___	
11. Concrete mix data for shrinkage, permeability samples :			
a) Air Content (AASHTO T 152) -----	___	___	
b) Batch ticket -----	___	___	
c) W/C Ratio -----	___	___	
d) Compressive Strength (AASHTO T 22) -----	___	___	
e) Temperature (ASTM C 1064) -----	___	___	
f) Spread (ASTM C 1611) -----	___	___	___
12. SCC, J ring and VSI tests submitted for upper/lower spread ranges -----	___	___	___
13. Free Shrinkage (AASHTO T 160 or ASTM C157)* -----	___	___	
14. Rapid chloride permeability (AASHTO T 358)* -----	___	___	
15. ASR test results (AASHTO T 303/ ASTM C1567) -Fine Aggregate* -----	___	___	
16. ASR test results (AASHTO T 303/ ASTM C1567) -Coarse Aggregate* -----	___	___	

Note *: Test shall be done at an accredited laboratory.

Notes: