

## COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS

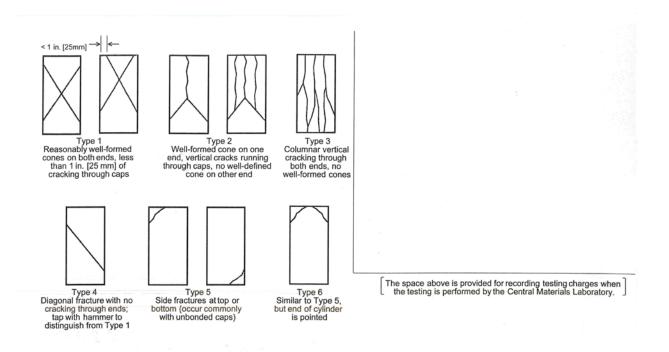
(A Modification of AASHTO Designation T 22 and ASTM Designation C 39)

1. This test procedure is the same as specified in AASHTO T 22 and ASTM C 39.

2. A blank ADOT "Concrete Test Report" laboratory card is provided in Figure 3 (front of card) and Figure 4 (back of card). An example of the use of the ADOT "Concrete Test Report" laboratory card is given in Figures 5 and 6.

USE CAPITAL LETTERS		RETE TEST REP			
SS CORE OR CYLINDER NUMBER* LOT NUMBER	DATE BATCHED MONTH DAY YEAR	TICKET NUMBER	TRUCK OR BATCH QUANTITY	PRODUCT CO	DE
			CY		
* ENTER CORE OR CYLINDER NUMBER AT THE SITE				REQUIRED	
	ACS NUMBER				PSI
A	T PLANT	AT SITE WHEN NO	PLANT INSPECTO	R) BATCH	TIME
DESIGN WT (S.S.D.) LB/CY	MOISTURE BATCH WEIG (S.S.D.) LB/CY LB/CY	FLY ASH	TYPE AMOUNT	Max. mfg. rab	TIME
CEMENT				OZ./CY OR OZ./CWT Mix speed	ed rpn
SAND				OZJCY OR Min. mfg. rate OZJCWT mix speed	rpn
. C.A. #1		A.E.A.		OZ/CWT mix. speed	
C.A. #2				OZ/CWT Time mixed	min
WATER		PLANT INSPECTOR'S SIGNATURE		No. of mix rev.	
DATE SAMPLED	SAMPLED BY		QUANTITY	SAMPLE	MILITARY
MONTH DAY YEAR	SAMPLED BT		CY WATER ADDED	TIME Mix speed at site	rpr
DIR STATION		PLACED IN - PART OF STRUCTURE	STRUCT. NO	Time mixed at site	min
				Total time mixe plant and site	ed min
AIR CONTENT SPEC T		NO FINAL W/C RATIO	CRETE TEMP *F	No. of mix rev. at site	
MEASURED AIR CONTENT	% FINAL W/C			Total No. of Mix Rev. at	
SPEC 10			F TO	*F Plant & Site	
MEASURED SLUMP/SPREAD	IN.	FIELD INSPECTOR'S SIGNATURE	I		
LAB NUMBER	AT SPECIMEN LENGTH	HEIGHT DIAMETER	S-SECTIONAL AREA LOAD	STRE	NGTH
		IN	SQ. IN.	LB.	PS
	ITARY	IN IN.	SQ. IN.	LB.	PS
TIME REC'D IN LAB	С	IN. IN.	IN.	LB.	PS
		AGE PSI H = HC	DURS	AVERAGE**	PS
LAB NUMBER	AT SPECIMEN		S-SECTIONAL	RACTURE PATTER	N ON BACK
		H/ HEIGHT DIAMETER	AREA LOAD		NGTH
DATE REC'DIN LAB		• IN. • IN.	IN	LB.	P\$
	LITARY	IN IN.	IN.	LB.	PS
DATE TESTED	C -		SQ. IN.	LB.	PS
TIME TESTED	ITARY	AGE PSI H = HC D = DA	OURS AYS INDICATE TYPE OF I		
P = PROJECT LAB CODES: R = REGIONA	AL.		INDIOATETHEOT	ESULT AS REQUIRED BY S	A CONTRACTOR OF
C = CENTRAL	k	REMARKS		SAMPLING	T 141
				FABRICATION AND CURING	T 23 or T126
LABMAN SIGNATURE AND DATE				AIR CONTENT SLUMP CONCRETE TEMP	T 152 T 119 C 1064
LABMAN SIGNATURE AND DATE				LENGTH/HEIGHT OF CORES	T 148
		A		COMPRESSIVE STRENGTH T = AAS	ARIZ 314
SUPERVISOR SIGNATURE AND DATE		SEE BACK ALSO		C = AST	M TEST

## FIGURE 3



Were unbonded ca	nsused? Yes		E:		ised? Neoprene	Other	
SPECIMEN		<ul> <li>South States and the second sec</li></ul>		E PATTERN ( 🗸 )			
IDENTIFICATION	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6	OTHER*
A							
В	1.672.5	1.					1
С						1985 - 1946 -	1.0

Remarks: \_

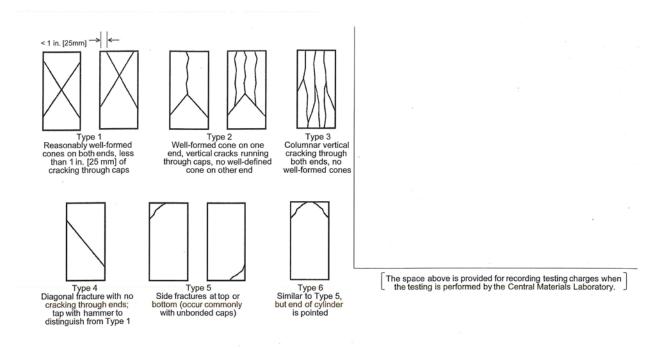
Were unbonded cap	s used?Yes	AGE No 🗋 If Yes, w		nded cap was use	d? Neoprene	Other 🔲 ———	
SPECIMEN INDICATE TYPE OF FRACTURE PATTERN (*)							
IDENTIFICATION	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6	OTHER*
A	2						
В		t stabile	1.5.15116.0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2.1.7.2.2.2	A feet had	Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.
С		1145 Q. S. S.	x i i i i i	A Carlot A Carlo	a da ser en el compositiones de la composition de la composition de la composition de la composition de la comp		
* If the type of frac	cture pattern is	other than Type	1 to Type 6, ske	tch and briefly c	lescribe the fract	ure pattern.	

Remarks: -

44-9337 R12/11 (Back)

USE CAPITAL LETTERS		RTMENT OF TRANSPORTATI		YEI	
CYLINDER LOT	E BATCHED	TICKET NUMBER	TRUCK OR BATCH QUANTITY	PRODUCT COD	
P 20 NUMBER MONTH	0 7 / 1	275	/0 CY	140	
* ENTER CORE OR CYLINDER NUMBER AT THE SITE	C CONCRETE			REQUIRED 21 STRENGT	8-DAY
	STP-999-	C (999)B	H 999901	1C 400	0 0 PSI
AT P	LANT (ATS	ITE WHEN NO P	LANT INSPECTO	R) BATCH T	
DESIGN WT MOISTUR (S.S.D.) LB/CY (S.S.D.) L		FLY ASH LB/CY ADMIX	TYPE AMOUNT	OZ/CY OR OZ/CWT Max. mfg. rate mix speed	
CEMENT				OZ/CY OR OZ/CY OR OZ/CY OR Min. mfg. rated mix speed	d rpm
SAND				OZ/CY OR Actual OZ/CWT mix. speed	rpm
C.A. #1		A.E.A.		OZ./CY OR OZ./CWT Time mixed	min
C.A. #2 WATER		PLANT INSPECTOR'S SIGNATURE		No. of mix rev.	
DATE SAMPLED SAMPLEI	DBY	REP	ANTITY BY TEST	SAMPLE 1 2:0	
030711 JOE SAM	PLER AT	SITE 2	07 CY WATER ADDED	2 Mix speed at site	rpm
DIR     STATION       NB     222+25	MAIN ROAD -	1.4 SE 4	STRUCT. NO	Time mixed at site Total time mixed	<b>2</b> min
AIR CONTENT SPEC TO	% IF NO BATCH WEIG % THERE IS NO FINA		TE TEMP 66*F	No. of mix	2.0
MEASURED AIR CONTENT	% FINAL W/C RATIO	0 LB/LB AIR TEM	P 60 F	rev. at site Total No. of	20
	IN. MAX W/C RATIO	0 LB/LB		*F Plant & Site	
MEASURED SLUMP/SPREAD 27	5 IN.	LD INSPECTOR'S SIGNATURE	PAUL WSPECT	OR	
	SPECIMEN	DIAMETER CROSS-SI	EA LOAD	STREN	
	A 12.0		.37 <sup>sq.</sup> 1241	90 LB. 43	80 PSI
TIME REC'D IN LAB / 3 2 5		v. 6.01 IN. 28	<u>37</u> <sup>sq.</sup> / 196	30 LB. 42	. 30 PSI
DATE TESTED NUINU	c / 20		37 <sup>sq.</sup> 1416	70 <sub>LB.</sub> 41	90 PSI
TIME TESTED 05:49 MILITARY	REQUIRED STRENGTH	AGE H = HOUR		AVERAGE** 43	F3i
	SPECIMEN	DIAMETED CROSS-SI	INDICATE TYPE OF F		
			EA LOAD	LB. STREN	PSI
		N	SQ. IN.	LB.	PSI
TIME REC'D IN LAB		N. IN.	SQ.	LB.	PSI
MILITARY	REQUIRED STRENGTH		·	AVERAGE**	PSI
	PSI	H = HOUR D = DAYS	INDICATE TYPE OF F		
LAB CODES: R = REGIONAL C = CENTRAL		REMARKS	**OR REPORTED RE	SULT AS REQUIRED BY SP TEST MET	
COMPRESSIVE STRENGTH OF MORE THAN 10% FRO	CYLINDER 1650	ELIMINATED - D	NEFERS BY	SAMPLING FABRICATION	T 141
	M THE AVERAC	E OF THE 3 C	YLINDERS	AND CURING AIR CONTENT SLUMP	T 23 or T126 T 152 T 119
LABMAN SIGNATURE AND DATE				CONCRETE TEMP LENGTH/HEIGHT OF CORES	C 1064 T 148
	SUPERVISOR	04/14/11		COMPRESSIVE STRENGTH	ARIZ 314
SUPERVISOR SIGNATURE AND DATE		EE BACK ALSO		T = AASH C = ASTM	

FIGURE 5



Were unbonded c	aps used? Yes 🛛	No 🔲 If Yes	, what type of unb	onded cap was u	ised? Neoprene	Other 🔲 ——	
SPECIMEN INDICATE TYPE OF FRACTURE PATTERN ( 🗸 )							
IDENTIFICATION	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6	OTHER*
А							
В						$\checkmark$	
С							

Remarks: \_

AGE: Were unbonded caps used? Yes D No D If Yes, what type of unbonded cap was used? Neoprene Other D								
SPECIMEN INDICATE TYPE OF FRACTURE PATTERN ( )								
IDENTIFICATION	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	. TYPE 6	OTHER*	
A								
В				1				
С								
* If the type of fra	cture pattern is	other than Type	1 to Type 6, ske	etch and briefly	describe the fra	cture pattern.		

Remarks: -

44-9337 R12/11 (Back)