

U.S. Army Corps of Engineers (USACE)  
**TRIAXIAL COMPRESSION(S) TEST - AXIAL LOADING DATA**

For use of this form, see EM 1110-2-1906; the Proponent agency is CECW-EC.

**Purpose:** The purpose of this form is to document triaxial compression (S) tests using axial loading data.

1. Project: \_\_\_\_\_ 2. Date: \_\_\_\_\_

3. Boring No.: \_\_\_\_\_ 4. Sample No.: \_\_\_\_\_ 5. Test N.: \_\_\_\_\_

6. Specimen No.: \_\_\_\_\_ 7. Consolidation Pressure: \_\_\_\_\_ tons/sq. ft.

8a. - b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.
Date & Time (0001-2400 hours)	Dial Reading 10" in.	Cumulative Change (ΔH) cc. 10" in.	Burette Reading cc.	Volume Change (ΔV) cc.	<i>P</i> Axial Load lb.	Axial Strain $\epsilon = \Delta H/H_c$	$C_\epsilon$	$1 - C_\epsilon$	$A'_{corr} =$ $A_c / (1 - C_\epsilon)$ (sq cm)	Stress = $(P/A'_{corr}) \times 0.465$ (tons/sq ft)

9. Area of specimen after test,  $A_f =$  \_\_\_\_\_ sq cm  
 10. Axial strain at end of test,  $\epsilon_c =$  \_\_\_\_\_  
 11. Area of specimen at end of test,  $A_c = A_c / (1 - \epsilon_c) =$  \_\_\_\_\_ sq cm  $C = A_f / A_c =$  \_\_\_\_\_  
 12. Test time to failure,  $t_f =$  \_\_\_\_\_

13. Remarks

14a. Technician (Last, First Mi) \_\_\_\_\_ b. Date \_\_\_\_\_ c. Technician's Signature \_\_\_\_\_