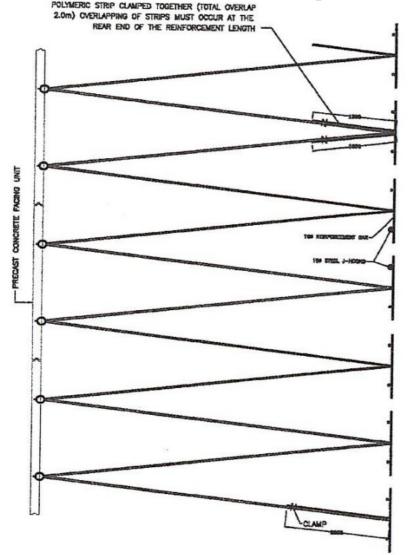
Friction Strip- Soil Reinforcement



3. PERFORMANCE EVALUATION OF FASTENTM STRIPS

3.1 Tensile Property

Ultimate tensile strength and strain of FASTEN[™] Strips were determined to refer to ASTM D 4595. (Figure 3)

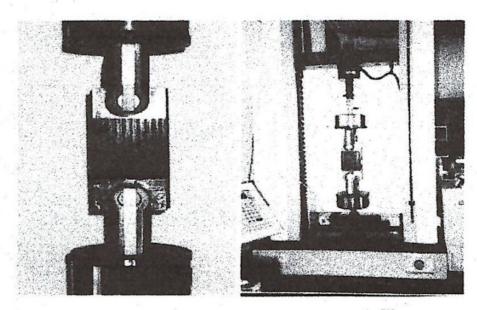


Figure 3. Tensile property test apparatus for FASTENTM Strips

Friction Strip- Soil Reinforcement

Figure 5 shows the schematic diagram and photographs of creep deformation test equipment, respectively.

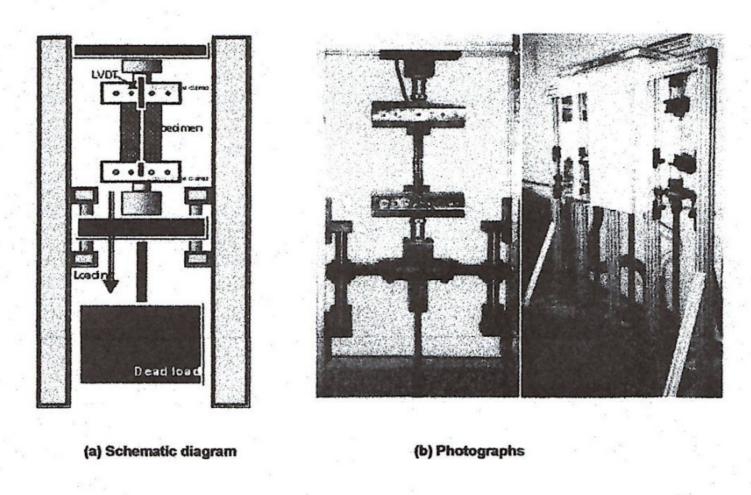
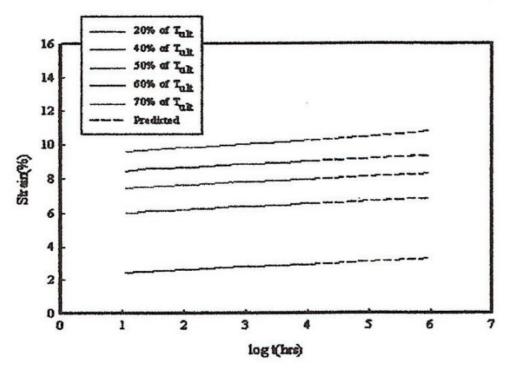


Figure 5. Schematic diagram and photographs of creep deformation test equipment for FASTEN™
Strips

Friction Strips- Soil Reinforcement



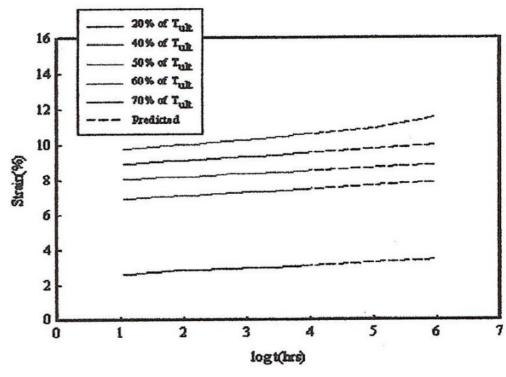


Figure 6. Creep strain curves of FASTEN™ Strips, FS 50

Figure 7. Creep strain curves of FASTEN™ Strips, FS 100

Table 4. Limit creep strain of FASTEN™ Strips at 52°C, 60% Tdesign

FASTEN™ Strip	FS 50	FS 100		
Limit Creep Strain (%)	9.2	9.3		

Friction Strips- Soil Reinforcement

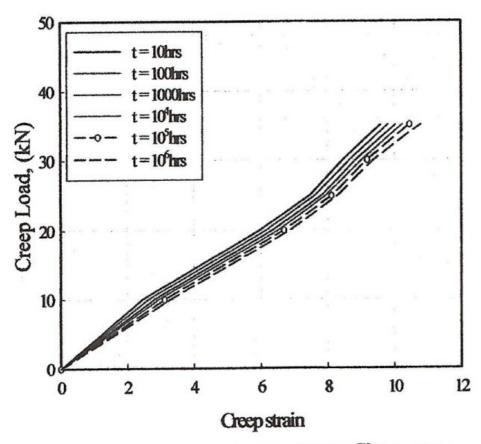


Figure 8. Isochronous creep strain curves of FASTENTH Strips, FS 50

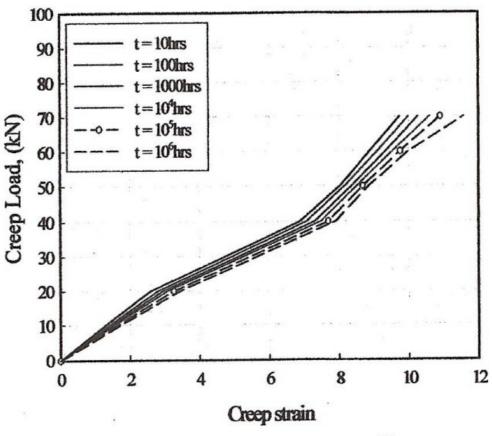


Figure 9. Isochronous creep strain curves of FASTEN™ Strips, FS 100

Friction Strips- Soil Reinforcement

Table 5. Chemical resistance of FASTEN™ Strips

FASTEN™ Strip		FS 50		FS 100				
Temp	perature ((3)	25	35	70	25	35	70
Strength Retention pH (%)		3.5	98.2	98.2	98.2	98.3	98.4	98.4
	7.3	98.4	98.4	98.6	98.4	98.2	98.4	
	12.4	98.6	98.4	98.5	98.5	98.5	98.5	

Table 6. Biological resistance of FASTEN™ STRIPS

FASTEN™ Strip	FASTEN™ FS 50	FASTEN [™] FS 100	
Strength Retention (%)	99.5		