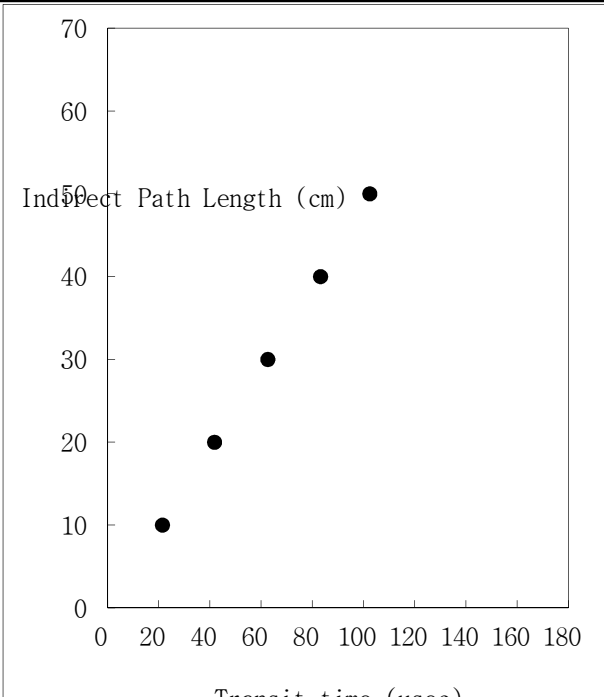
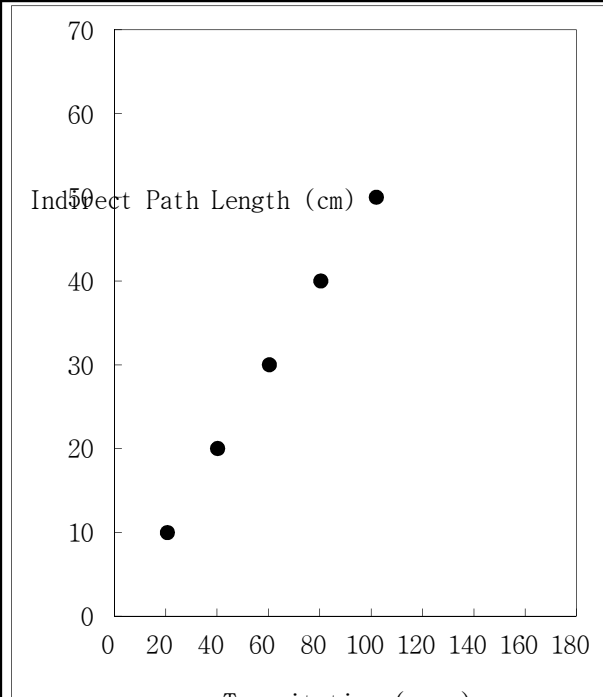


초음파속도 DATA							
시 설 물	계남고가교						
측정연월일	2026년 04월 15일~16일 , 24일						
강도추정식	공식 1	FC=(215Vd-620)x0.098	일본 건축학회식	설계강도	40.0		
	공식 2	FC=(102Vd-117)x0.098	일본 재료학회식	Method	초음파법		
Pulse Velocity Data							
(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)							
위치	S1 좌측 캔틸레버	측정부재	바닥판	위치	S2 (거더 내부 G1) 측정부재	바닥판	
X	Transit Time (usec)		X	Transit Time (usec)			
Y	Indirect Path Length (cm)		Y	Indirect Path Length (cm)			
X	Y		X	Y			
21.5	10		20.7	10			
41.9	20		40.2	20			
62.7	30		60.4	30			
83.3	40		80.5	40			
102.5	50		102.1	50			
Best fit line (Equation)			Best fit line (Equation)				
Y = 4.915 X - 6.626			Y = 4.922 X + 0.836				
Vi (km/s)		4.915	Vi (km/s)		4.922		
Correction Ration (Vi → Vd)		5.161	Correction Ration (Vi → Vd)		5.168		
공식1	48.0	공식2	40.1	공식1	48.1	공식2	40.2
							

Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치 S3(거더 내부 G3) 측정부재 바닥판				위치 S3 좌측 캔틸레버 측정부재 바닥판			
X		Transit Time (usec)		X		Transit Time (usec)	
Y		Indirect Path Length (cm)		Y		Indirect Path Length (cm)	
X		Y		X		Y	
22.5		10		20.7		10	
43.2		20		44.2		20	
70.5		30		65.2		30	
83.5		40		79.2		40	
103.2		50		102.9		50	
Best fit line (Equation)				Best fit line (Equation)			
Y = 4.905 X - 16.748				Y = 4.984 X - 11.228			
Vi (km/s)		4.905		Vi (km/s)		4.984	
Correction Ration (Vi → Vd)		5.150		Correction Ration (Vi → Vd)		5.233	
공식1	47.7	공식2	40.0	공식1	49.5	공식2	40.9

Indirect Path Length (cm)

Transit time (usec)

Indirect Path Length (cm)

Transit time (usec)

Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치 S4 (거더 내부 G1) 측정부재 바닥판				위치 S4 우측 캔틸레버 측정부재 바닥판			
X		Transit Time (usec)		X		Transit Time (usec)	
Y		Indirect Path Length (cm)		Y		Indirect Path Length (cm)	
X		Y		X		Y	
21.6		10		20.1		10	
40.6		20		40.7		20	
69.2		30		66.5		30	
81.6		40		81.3		40	
101.6		50		101.0		50	
Best fit line (Equation)				Best fit line (Equation)			
Y = 4.914 X - 9.212				Y = 4.909 X - 3.968			
Vi (km/s)		4.914		Vi (km/s)		4.909	
Correction Ration (Vi → Vd)		5.160		Correction Ration (Vi → Vd)		5.154	
공식1	47.9	공식2	40.1	공식1	47.8	공식2	40.1

Indirect Path Length (cm)

Transit time (usec)

Indirect Path Length (cm)

Transit time (usec)

Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치 S5 (거더 내부 G3) 측정부재 바닥판				위치 S5 좌측 캔틸레버 측정부재 바닥판			
X		Transit Time (usec)		X		Transit Time (usec)	
Y		Indirect Path Length (cm)		Y		Indirect Path Length (cm)	
X		Y		X		Y	
23.8		10		23.4		10	
41.7		20		40.0		20	
61.2		30		70.5		30	
75.2		40		81.2		40	
106.5		50		103.2		50	
Best fit line (Equation)				Best fit line (Equation)			
Y = 4.940 X - 4.727				Y = 4.899 X - 11.892			
Vi (km/s)		4.940		Vi (km/s)		4.899	
Correction Ration (Vi → Vd)		5.187		Correction Ration (Vi → Vd)		5.144	
공식1	48.5	공식2	40.4	공식1	47.6	공식2	40.0

Indirect Path Length (cm)

Transit time (usec)

Indirect Path Length (cm)

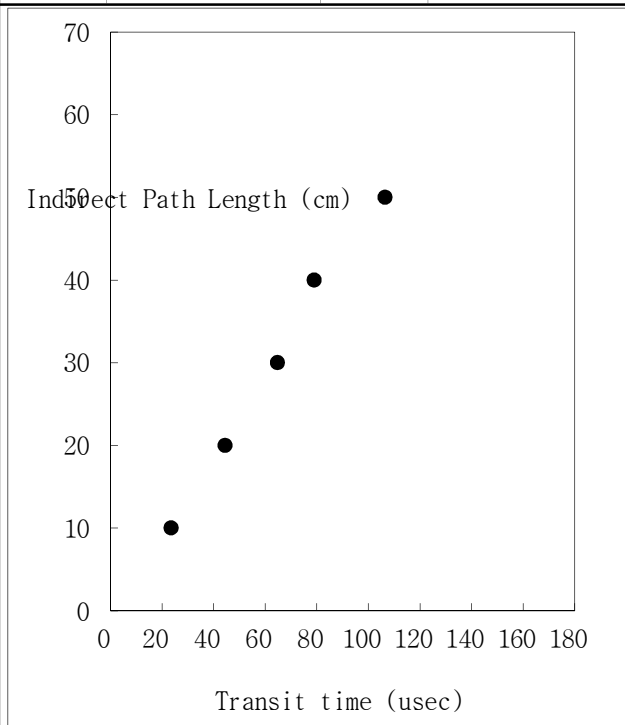
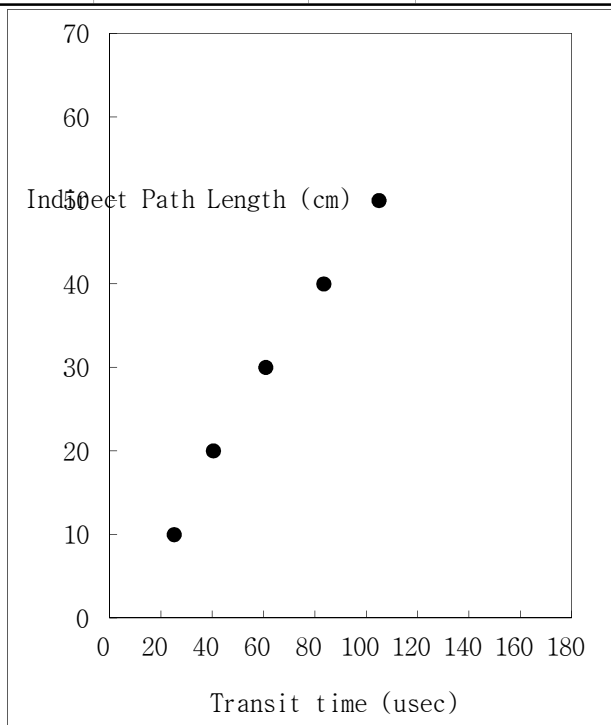
Transit time (usec)

초음파속도 DATA					
시 설 물	계남고가교				
측정연월일	2026년 04월 15일~16일 , 24일				
강도추정식	공식 1	FC=(215Vd-620)x0.098	일본 건축학회식	설계강도	40.0
	공식 2	FC=(102Vd-117)x0.098	일본 재료학회식	Method	초음파법
Pulse Velocity Data					
(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)					
위치	외부 2S-G1 (하면)	측정부재	거더	위치	외부 3S-G1
					측정부재
					거더
X	Transit Time (usec)		X	Transit Time (usec)	
Y	Indirect Path Length (cm)		Y	Indirect Path Length (cm)	
X	Y		X	Y	
24.8	10		25.2	10	
41.1	20		39.2	20	
66.8	30		52.2	30	
79.6	40		77.8	40	
106.5	50		101.2	50	
Best fit line (Equation)			Best fit line (Equation)		
Y = 4.903 X - 12.591			Y = 5.131 X - 3.324		
Vi (km/s)		4.903	Vi (km/s)		5.131
Correction Ration (Vi → Vd)		5.148	Correction Ration (Vi → Vd)		5.388
공식1	47.7	공식2	40.0	공식1	52.7
				공식2	42.4

Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치	내부 2S-G1 LW	측정부재	거더	위치	내부 S3-G3 LW	측정부재	거더
X	Transit Time (usec)			X	Transit Time (usec)		
Y	Indirect Path Length (cm)			Y	Indirect Path Length (cm)		
X		Y		X		Y	
25.2		10		23.5		10	
40.4		20		44.5		20	
60.8		30		64.8		30	
83.5		40		79.0		40	
105.0		50		106.5		50	
Best fit line (Equation)				Best fit line (Equation)			
Y = 4.910 X - 9.203				Y = 4.948 X - 15.015			
Vi (km/s)		4.910		Vi (km/s)		4.948	
Correction Ration (Vi → Vd)		5.156		Correction Ration (Vi → Vd)		5.195	
공식1	47.9	공식2	40.1	공식1	48.7	공식2	40.5



Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치 내부 4S-G1 LW 측정부재 거더				위치 내부 S5-G3 RW 측정부재 거더			
X		Transit Time (usec)		X		Transit Time (usec)	
Y		Indirect Path Length (cm)		Y		Indirect Path Length (cm)	
X		Y		X		Y	
25.2		10		21.9		10	
40.1		20		54.6		20	
61.8		30		75.2		30	
88.9		40		87.0		40	
99.6		50		103.1		50	
Best fit line (Equation)				Best fit line (Equation)			
Y = 4.984 X - 14.566				Y = 4.933 X - 37.215			
Vi (km/s)		4.984		Vi (km/s)		4.933	
Correction Ration (Vi → Vd)		5.233		Correction Ration (Vi → Vd)		5.180	
공식1	49.5	공식2	40.9	공식1	48.4	공식2	40.3

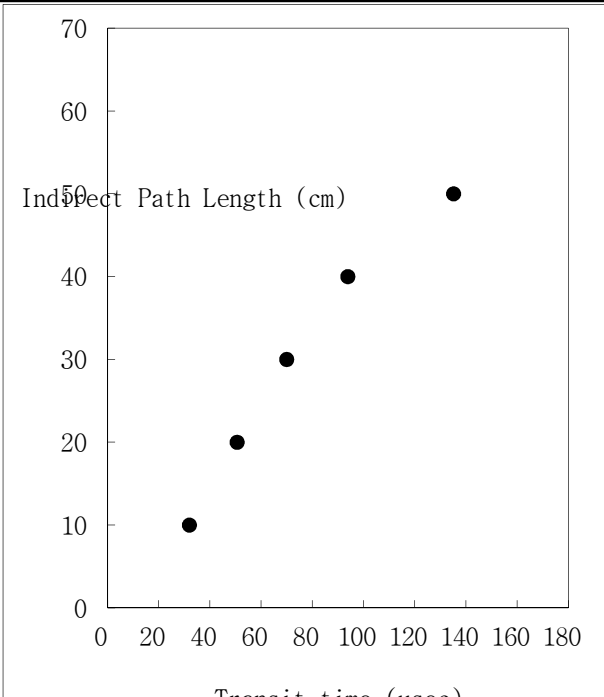
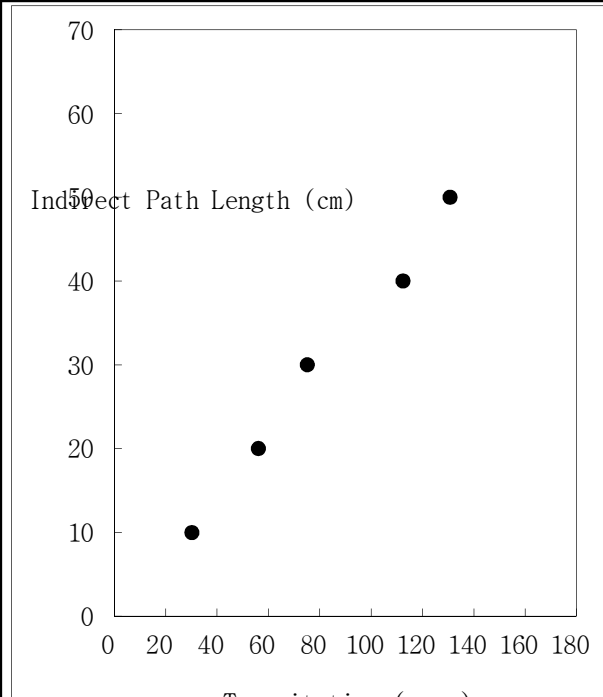
Indirect Path Length (cm)

Transit time (usec)

Indirect Path Length (cm)

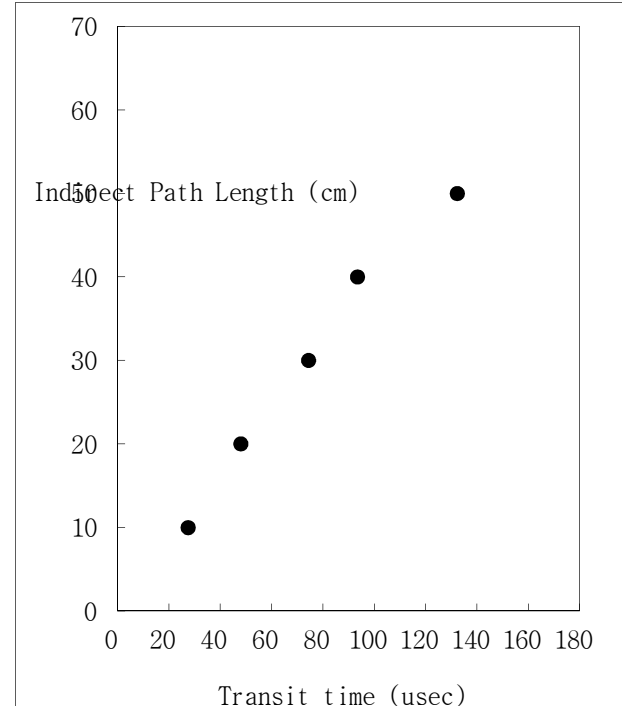
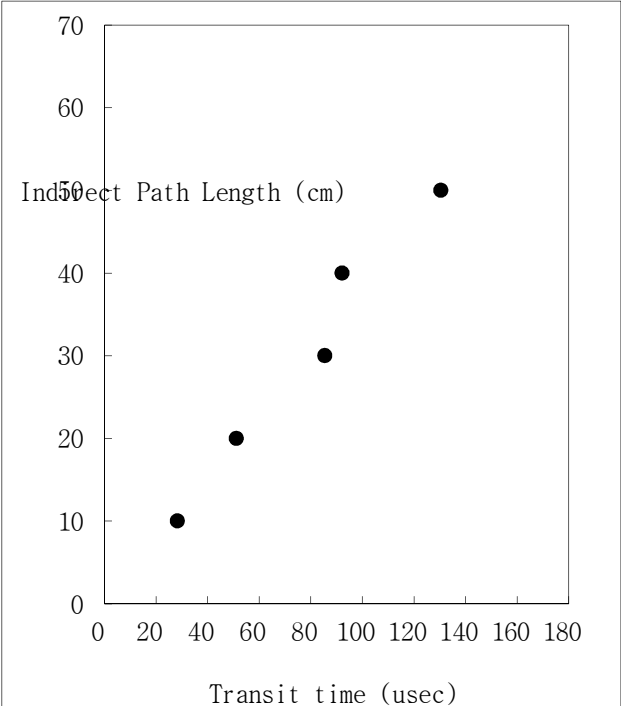
Transit time (usec)

초음파속도 DATA					
시 설 물	계남고가교				
측정연월일	2026년 04월 15일~16일 , 24일				
강도추정식	공식 1	FC=(215Vd-620)x0.098	일본 건축학회식	설계강도	24.0
	공식 2	FC=(102Vd-117)x0.098	일본 재료학회식	Method	초음파법
Pulse Velocity Data					
(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)					
위치	A1	측정부재	교대	위치	A2
X	Transit Time (usec)		X	Transit Time (usec)	
Y	Indirect Path Length (cm)		Y	Indirect Path Length (cm)	
X	Y		X	Y	
35.2	10		31.2	10	
49.0	20		53.8	20	
83.2	30		81.3	30	
89.9	40		101.3	40	
135.2	50		135.2	50	
Best fit line (Equation)			Best fit line (Equation)		
Y = 3.941 X - 9.398			Y = 3.890 X - 13.349		
Vi (km/s)		3.941	Vi (km/s)		3.890
Correction Ration (Vi → Vd)		4.138	Correction Ration (Vi → Vd)		4.085
공식1	26.5	공식2	29.9	공식1	25.3

초음파속도 DATA					
시 설 물	계남고가교				
측정연월일	2026년 04월 15일~16일 , 24일				
강도추정식	공식 1	FC=(215Vd-620)x0.098	일본 건축학회식	설계강도	24.0
	공식 2	FC=(102Vd-117)x0.098	일본 재료학회식	Method	초음파법
Pulse Velocity Data					
(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)					
위치	P1	측정부재	교각	위치	P2
X	Transit Time (usec)		X	Transit Time (usec)	
Y	Indirect Path Length (cm)		Y	Indirect Path Length (cm)	
X	Y		X	Y	
32.1	10		30.2	10	
50.7	20		56.2	20	
70.1	30		75.2	30	
94.0	40		112.5	40	
135.2	50		130.8	50	
Best fit line (Equation)			Best fit line (Equation)		
Y = 3.880 X + 3.465			Y = 3.842 X - 11.154		
Vi (km/s)		3.880	Vi (km/s)		3.842
Correction Ration (Vi → Vd)		4.074	Correction Ration (Vi → Vd)		4.034
공식1	25.1	공식2	29.3	공식1	24.2
					

Pulse Velocity Data

(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)

위치		P3	측정부재		교각	위치		P4	측정부재		교각
X		Transit Time (usec)				X		Transit Time (usec)			
Y		Indirect Path Length (cm)				Y		Indirect Path Length (cm)			
X		Y				X		Y			
27.5		10				28.3		10			
48.0		20				51.2		20			
74.4		30				85.5		30			
93.5		40				92.2		40			
132.3		50				130.5		50			
Best fit line (Equation)						Best fit line (Equation)					
Y = 3.859 X + 10.058						Y = 3.957 X - 6.838					
Vi (km/s)		3.859				Vi (km/s)		3.957			
Correction Ration (Vi → Vd)		4.052				Correction Ration (Vi → Vd)		4.155			
공식1	24.6	공식2	29.0		공식1	26.8	공식2	30.1			
											

초음파속도 DATA							
시 설 물	계남고가교						
측정연월일	2026년 04월 24일						
강도추정식	공식 1	FC=(215Vd-620)x0.098	일본 건축학회식	설계강도	24.0		
	공식 2	FC=(102Vd-117)x0.098	일본 재료학회식	Method	초음파법		
Pulse Velocity Data							
(Vi : Indirect Pluse Velocity, Vd : Direct Pluse Velocity)							
위치	슬래브	측정부재	옹벽내부	위치	벽체		
X	Transit Time (usec)			X	Transit Time (usec)		
Y	Indirect Path Length (cm)			Y	Indirect Path Length (cm)		
X	Y			X	Y		
30.3	10			26.5	10		
51.5	20			53.8	20		
79.2	30			85.5	30		
101.2	40			101.8	40		
134.8	50			131.8	50		
Best fit line (Equation)				Best fit line (Equation)			
Y = 3.842 X - 5.046				Y = 3.838 X - 6.604			
Vi (km/s)		3.842		Vi (km/s)		3.838	
Correction Ration (Vi → Vd)		4.034		Correction Ration (Vi → Vd)		4.030	
공식1	24.2	공식2	28.8	공식1	24.1	공식2	28.8