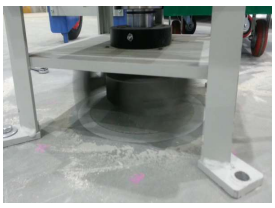
3. Abrasion Resistance Test (마모도)

af1

Survey Method

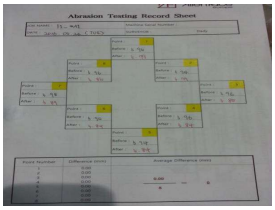
1 

2 

3 

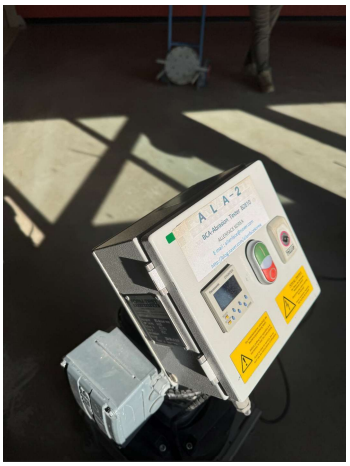
4 

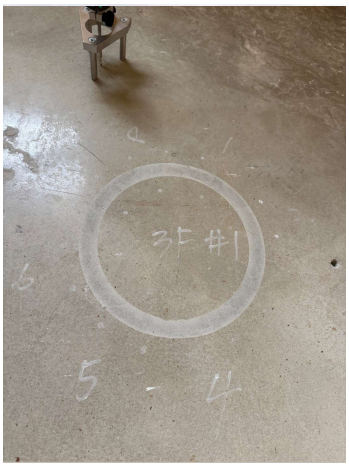
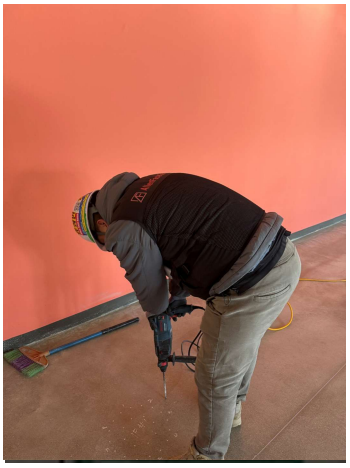
5 

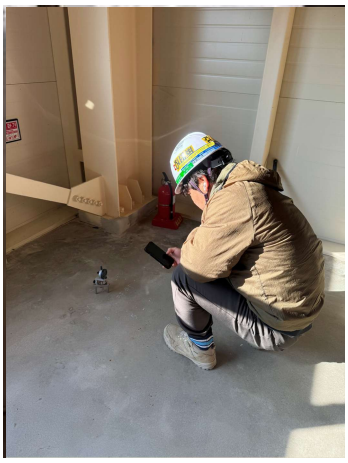
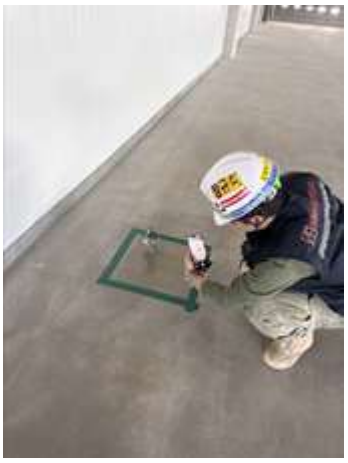
6 

1. Steel Template을 이용하여 바닥에 2개의 구멍을 만들 위치 및 마모의 깊이를 측정할게이지의 다리가 놓일 8개 포인트 위치를 표시
2. 측정게이지를 사용하여 바닥에 표시된 8개 포인트에 높이 측정
3. 마모도 장비를 사용하여 바닥 마모도 테스트 진행
4. 마모된 8개의 포인트를 측정게이지를 통해 마모된 깊이 측정
5. 측정값을 마모시험 기록지에 기록

Abrasion Test Picture


Abrasion Resistance Specification

Performance classes for abrasion resistance,

Based on Table 4 of BS 8204-2 : 2003+A2:2011

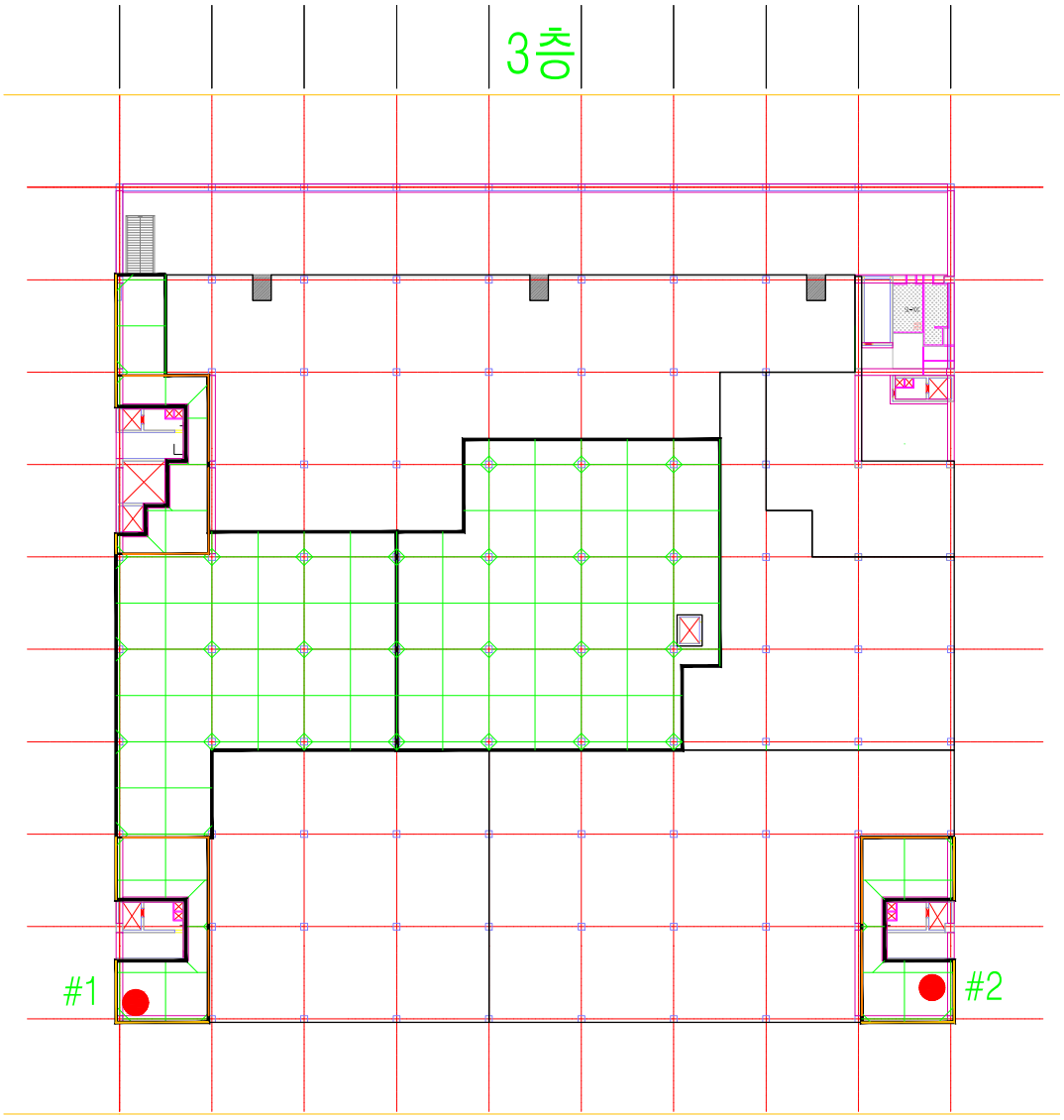
Performance Class	Service Conditions	Typical Applications	BS8204 test Limits (mm)
Special	Severe Abrasion or Impact from Steel or hard nylon or neoprene wheeled traffic or scoring/scraping by dragging metal objects	Waste Transfer Stations, foundries, heavy engineering and other very aggressive environments	0.05
AR1	Very high Abrasion; steel or hard nylon or neoprene wheeled traffic and impact. Rubber-tyred traffic in areas subject to spillage of abrasive materials.	Production, warehousing and distribution	0.10
AR2	High abrasion; Hard nylon or neoprene wheeled traffic.		0.20
AR4	Moderate abrasion; rubber-tyred traffic	Light duty manufacturing, commercial, sporting and recreational uses	0.40

마모저항도에 대한 일반적인 시방			
BS 8204-2 : 2003 + A2 :2011			
분류	내용	용도	BS 8204 허용치(mm)
Special	매우 극심한 마모 - 철제물건을 바닥에서 끌면서 생기는 마모도 (철, 하드 나일론 또는 네오프랜 바퀴의 주행으로 인한 마모)	폐기물처리장, 주물공장, 중공업 공장외	0.05
AR1	매우 높은 마모 (철, 하드 나일론 또는 네오프랜 바퀴의 주행으로 인한 마모)	일반생산공장, 창고, 물류센터	0.1
AR2	높은 마모 (하드 나일론 또는 네오프랜 바퀴의 주행으로 인한 마모)		0.2
AR4	보통의 마모 (고무타이어 바퀴 주행으로 인한 마모)	경공업공장, 일반 상업시설, 스포츠센터 등	0.4

Summary of Survey Result

Test Company	Name of Project
AllenFace Korea	

By done - BS 8204-2 : 2003 + A2 : 2011				
Survey result			**Permitted Limit AR 1**	**Remark**
SLAB AREA	**SLAB ID**	**Measured**	**STANDARD**	**PASS / FAIL**
		mm	**mm**	
3F	#1	0.055	0.1	PASS
	#2	0.081	0.1	PASS
1F	#1	0.054	0.1	PASS
	#2	0.040	0.1	PASS
B2F	#1	0.034	0.1	PASS
	#2	0.084	0.1	PASS
Pass Average		**0.058**		**PASS**


3층
#1
#2

Abrasion Testing Record Sheet

JOB AREA :	3F #1	Machine Serial Number :	100588
DATE :	2026-01-16	SURVEYOR :	TAEBYEONG HEO

	Point : 1 Before : 0.05 After : 0.00	
Point : 8 Before : 0.04 After : 0.03		Point : 2 Before : 0.05 After : -0.01
Point : 7 Before : 0.06 After : 0.00		Point : 3 Before : 0.07 After : -0.01
Point : 6 Before : 0.08 After : 0.04		Point : 4 Before : 0.07 After : 0.00
	Point : 5 Before : 0.08 After : 0.01	

Point Number	Difference (mm)	Average Difference (mm)
1	-0.05	
2	-0.06	
3	-0.08	
4	-0.07	
5	-0.07	
6	-0.04	
7	-0.06	
8	-0.01	

$$\frac{-0.44}{8} = 0.055$$ PASS

Abrasion Testing Record Sheet

JOB AREA :	3F #1	Machine Serial Number :	100588
DATE :	2026-01-16	SURVEYOR :	TAEBYEONG HEO

1 BEFORE	1 AFTER	2 BEFORE	2 AFTER
			

3 BEFORE	3 AFTER	4 BEFORE	4 AFTER
			

Abrasion Testing Record Sheet

JOB AREA :	3F #1	Machine Serial Number :	100588
DATE :	2026-01-16	SURVEYOR :	TAEBYEONG HEO

5 BEFORE	5 AFTER	6 BEFORE	6 AFTER
			

7 BEFORE	7 AFTER	8 BEFORE	8 AFTER
			

Abrasion Testing Record Sheet

JOB AREA :	3F #2	Machine Serial Number :	100588
DATE :	2025-12-03	SURVEYOR :	TAEBYEONG HEO

	Point : 1 Before : 0.05 After : -0.04	
Point : 8 Before : 0.07 After : -0.05		Point : 2 Before : 0.05 After : 0.01
Point : 7 Before : 0.07 After : -0.02		Point : 3 Before : 0.07 After : 0.00
Point : 6 Before : 0.05 After : 0.01		Point : 4 Before : 0.06 After : -0.03
	Point : 5 Before : 0.06 After : -0.05	

Point Number	Difference (mm)	Average Difference (mm)
1	-0.09	
2	-0.04	
3	-0.07	
4	-0.09	$\frac{-0.65}{8} = 0.081$ PASS
5	-0.11	
6	-0.04	
7	-0.09	
8	-0.12	

Abrasion Testing Record Sheet

JOB AREA :	3F #2	Machine Serial Number :	100588
DATE :	2025-12-03	SURVEYOR :	TAEBYEONG HEO

1 BEFORE	1 AFTER	2 BEFORE	2 AFTER
			

3 BEFORE	3 AFTER	4 BEFORE	4 AFTER
			

Abrasion Testing Record Sheet

JOB AREA :	3F #2	Machine Serial Number :	100588
DATE :	2025-12-03	SURVEYOR :	TAEBYEONG HEO

5 BEFORE	5 AFTER	6 BEFORE	6 AFTER
			

7 BEFORE	7 AFTER	8 BEFORE	8 AFTER