



Abrasion Resistance Certification Report

이천시 대월면 대대리 576물류센터

검수의뢰자 : HEB

검수회사 :

ALLENFACE KOREA

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Abrasion Resistance

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Information

이천 대대리 물류센터 의 Abrasion Resistance 검수에 대한 자세한 내용은 다음과 같습니다

Client : HEB

Construction Company : 보훈종합건설

Project : 이천 대대리 물류센터

Site : 경기도 이천시 대월면 대대리 576

Area : B2F ,1F ,3F ,4F 각 1 Point

Performance Class : "AR1" – BS 8204 – 2 : 2003 + A2 :2001

Survey Date : 2024.03.05

Test machine Spec :

- Steel Wheels
 - 최대직경 : 76mm
 - 너 비 : 20mm
 - 경 도 : 735HV
- 회 전 수 : 2,850±10
- 테스트시간 : 약15분
- 총 하 중 : 65±0.5kg
- 치 수 : 360 X 360 X 600mm
- 무 게 : 80kg
- 전 압 : 230V / 50HZ



Abrasion Tester



Depth Gauge

Test measurement standard & method: BS EN 13892-4

What is Abrasion Resistance?

Abrasion resistance is the ability of a concrete surface to resist wear caused by rubbing, rolling, sliding, cutting and impact forces. Wear, which is the removal of surface material, is a process of displacement and detachment of particles or fragments from the surface. Abrasion mechanisms are complex and combinations of different actions can occur in many environments, for example, from truck tyres, foot traffic, scraping and impact. Excessive and early wear can be caused by the use of under-specified or under-strength concrete or water damage at the construction stage.

Tests are available to measure the abrasion resistance of concrete.

Guidance on performance classes, service conditions and typical applications, together with recommended abrasion resistance test limits, is given in Table 4 of BS 8204-2: 2002. Part of this Table is adapted and reproduced in Figure 1.

The required abrasion resistance should be specified in relation to the service conditions. Differentiating between the service conditions described may be difficult. In practice, many floors will have a combination of uses, particularly when a variety of truck types operate on the floor. It is very common, for example, to find trucks with steel and plastic wheels operating together and also to find rubber-tyred counterbalance trucks operating in certain areas of a floor.

Inadequate abrasion resistance can be improved by surface resin sealers. In more serious cases, mechanical removal of the surface, and the provision of a coating or screed, may be required.

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 네오프렌 바퀴의 주행으로 인한 마모)	폐기물처리장, 주물공장, 중공업 공장외	0.05
AR1	매우 높은 마모 (철, 하드 나일론 또는 네오프렌 바퀴의 주행으로 인한 마모)	일반생산공장, 창고, 물류센터	0.1
AR2	높은 마모 (하드 나일론 또는 네오프렌 바퀴의 주행으로 인한 마모)		0.2
AR4	보통의 마모 (고무타이어 바퀴 주행으로 인한 마모)	경공업공장, 일반 상업시설, 스포츠센터 등	0.4

Abrasion Resistance Certificate

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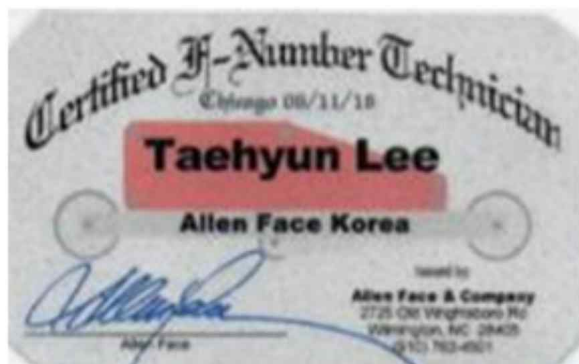
Survey Date : 2024.03.05

Performance Class

"AR 1"

Certificate of EN 13892-4 & BS 8204-2 Compliance

ALLENFACE KOREA hereby certifies and pass that 100% conform
to the **contract floor Abrasion Resistance specification.**



Very truly yours,
Confirm by
ALLENFACE KOREA

