ICRI Concrete Surface Profile Chips (Set of 10)

The International Concrete Repair Institute (ICRI) produces 10 distinct concrete profiles formed by various surface preparation methods. Each profile carries a CSP number ranging from CSP 1 (nearly flat) to CSP 10 (very rough; amplitude greater than ¼" [6 mm]).

These chips are designed as a visual and tactile comparator for identifying the degree of surface roughness. The user compares prepared concrete to the CSP chips and reports the chip number that most closely resembles the surface. Many jobs will specify the type of surface preparation required.

The ICRI CSP Chips are approximately 16 square inches (3.5" x 4.5") and are designed to replicate 10 surface profiles shown below.

Available with or without Technical Guideline (no. 310.2R-2013) Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repairs prepared by ICRI.

Look-up Table (Conversion of ICRI Panels to mils)

Description	ICRI CSP No.	Digital Depth Micrometer / ASTM D8271 (mils)* Learn More
Acid-etched	1	6 ± 2
Grinding	2	6 ± 2
Light Shotblast	3	11 ± 2
Light Scarification	4	15 ± 2
Medium Shotblast	5	16 ± 2
Medium Scarification	6	37 ± 4
Heavy Abrasive Blast	7	48 ± 4
Scabbled/Surface Retarder	8	Not measured
Heavy Scarification	9	Not measured
Handheld Concrete Breaker/Abrasive Blast Cleaned; or High-Pressure Water Jetting	10	Not measured

*Average of 15 readings, based on the data generated in this study

Concrete Surface Profile Chips with Technical Guideline

- Set of 10 Concrete Surface Profile Chips (CSP 1 - 10)
- Technical Guideline (no. 310.2R-2013)

The guide provides owners, specifiers, contractors, and manufacturers with the information required to select and specify the methods for preparing concrete surfaces prior to the application of a protective system or repair material.

Concrete Surface Profile Chips only

- Set of 10 Concrete Surface Profile Chips (CSP 1 - 10)