

# UNI-GROUP U.S.A.

## *Tables – Traditional Interlocking Concrete Pavements*

**TABLE 1**  
Grading Requirements for Bedding Sand - ASTM C 33

Sieve Size	Percent Passing
3/8 inch (9.5 mm)	100
No. 4 (4.75 mm)	95 to 100
No. 8 (2.36 mm)	85 to 100
No. 16 (1.18 mm)	50 to 85
No. 30 (0.600 mm)	25 to 60
No. 50 (0.300 mm)	10 to 30
No. 100 (0.150 mm)	2 to 10

**TABLE 2**  
Grading Requirements for Joint Sand

	<b>ASTM C 144 Natural Sand</b>	<b>ASTM C 144 Manufactured Sand</b>
<b>Sieve Size</b>	<b>Percent Passing</b>	<b>Percent Passing</b>
No. 4 (4.75 mm)	100	100
No. 8 (2.36 mm)	95 to 100	95 to 100
No. 16 (1.18 mm)	70 to 100	70 to 100
No. 30 (0.600 mm)	40 to 75	40 to 100
No. 50 (0.300 mm)	10 to 35	20 to 40
No. 100 (0.150 mm)	2 to 15	10 to 25
No. 200 (0.075 mm)	0	0 to 10

**TABLE 3**  
**Grading Requirements for Dense Graded Materials**

Sieve Size (Square Openings)	Design Range <sup>(a)</sup> % Passing		Job Mix Tolerance % Passing	
	Bases	Subbases	Bases	Subbases
2 in. (50 mm)	100	100	-2	-3
1 ½ in. (37.5 mm)	95-100	90-100	+/- 5	+/- 5
¾ in. (19 mm)	70-89	-	+/- 8	-
⅜ in. (9.5 mm)	50-70	-	+/- 8	-
No. 4 (4.75 mm)	35-55	30-60	+/- 8	+/- 10
No. 30 (600 mm)	12-55	-	+/- 5	-
No. 200 (75 mm)	0-8 (b)	0-12 (b)	+/- 3	+/- 5

(a) Job mix formula should be selected with due regard to availability of materials in the project area. Job mix tolerances may permit acceptance of test results outside the design range.

(b) Determine by wet sieving. Where frost and free moisture are indicative of site conditions, a lower percentage passing the No. 200 (75 mm) sieve shall be specified.

*Note: ASTM D 2940 corresponds closely to this National Stone Association developed specification. While local or state highway specifications may be substituted for the design ranges shown above, the fraction finer than the No. 200 (75 mm) sieve should be maintained.*