Geogrid Calculation

Using High-tenacity PET Yarns And Specific Tensile Strength Of 109 KiloNewtons Per Meter (kN/m)

Such As A Fiber Type With High Tensile Strength of 82.5 CentiNewtons Per Tex (cN/tex)

1100 dtex	2200 dtex	4400 dtex
0.091 kN	0.182 kN	0,360 kN
1201	601	300
1321	661	330
$20 \times 20 \text{ mm}$	$20 \times 20 \text{ mm}$	$20 \times 20 \text{ mm}$
14 mm	8 mm	5 mm
30	36	40
44	18	8
0.317 mm	0.448 mm	0,634 mm
13.95 mm	8.06 mm	5,07 mm
	0.091 kN 1201 1321 20 × 20 mm 14 mm 30 44 0.317 mm	0.091 kN

With different patterns, the web size can be influenced:

0.151	0.302	0.606
0.227	0.454	0.909
0.303	0.605	1.212
	0.151 0.227	0.151 0.302 0.227 0.454

With double pick inside the production, speed can be doubled (by half pick density)

Source: Lindauer Domier GmbH