

# MATH CLUB COLLECTION



It's the 21st century. Poindexters are hot, mathletes are cool, and coders can reach near celebrity status. These days, pop culture affords us carte blanche to explore our inner nerdism, and Bentley is no exception. Engineered to the highest efficiency, the Math Club Collection unites COLORCAST™ technology with fine denier yarns to satisfy atomic price points and a fantasy of colors for even the most selective design geeks.

So go ahead, build a spaceship in your bedroom with your vacuum cleaner or host a 36-hour hack-a-thon. No judgment here. In fact, we think you're dreamy.

**BENTLEY®**  
LOS ANGELES

**FAST TRACK** *QUICK SHIP*





## TECH UPD8™

4TDT40220T  
Binary 400006  
Theorem 400012  
24 in x 24 in

Brick





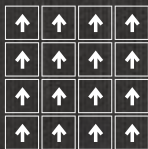




TECH UPD8

4TDT40220T  
Theorem 400012  
24 in x 24 in

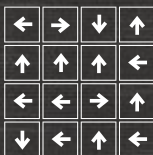
Monolithic



TECH UPD8

4TDT40220T  
Theorem 400012  
24 in x 24 in

Random



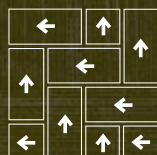




## TECH UPD8

4TDT40AA0T  
Golden Rectangle 400013  
Plus or Minus 400014  
18 in x 36 in

Herringbone







**TECH UPD8**

4TDT40AA0T  
Plus or Minus 400014  
18 in x 36 in

Brick





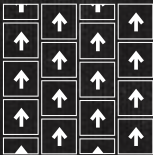




**SUPERCOMPUTER™**

4SAT40220T  
Algorithm 400011  
24 in x 24 in

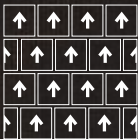
Ashlar



**SUPERCOMPUTER**

4SAT40220T  
Geometry 400005  
24 in x 24 in

Brick





## TECH UPD8

4TDT40220T  
Binary 400006  
Theorem 400012  
24 in x 24 in

Quarter Turn

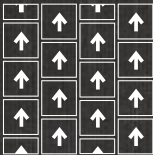




TECH UPD8

4TDT40220T  
Theorem 400012  
24 in x 24 in

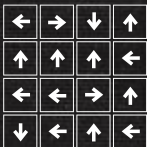
Ashlar



SUPERCOMPUTER

4SAT40220T  
Algorithm 400011  
24 in x 24 in

Random

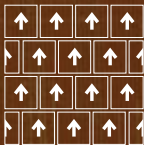




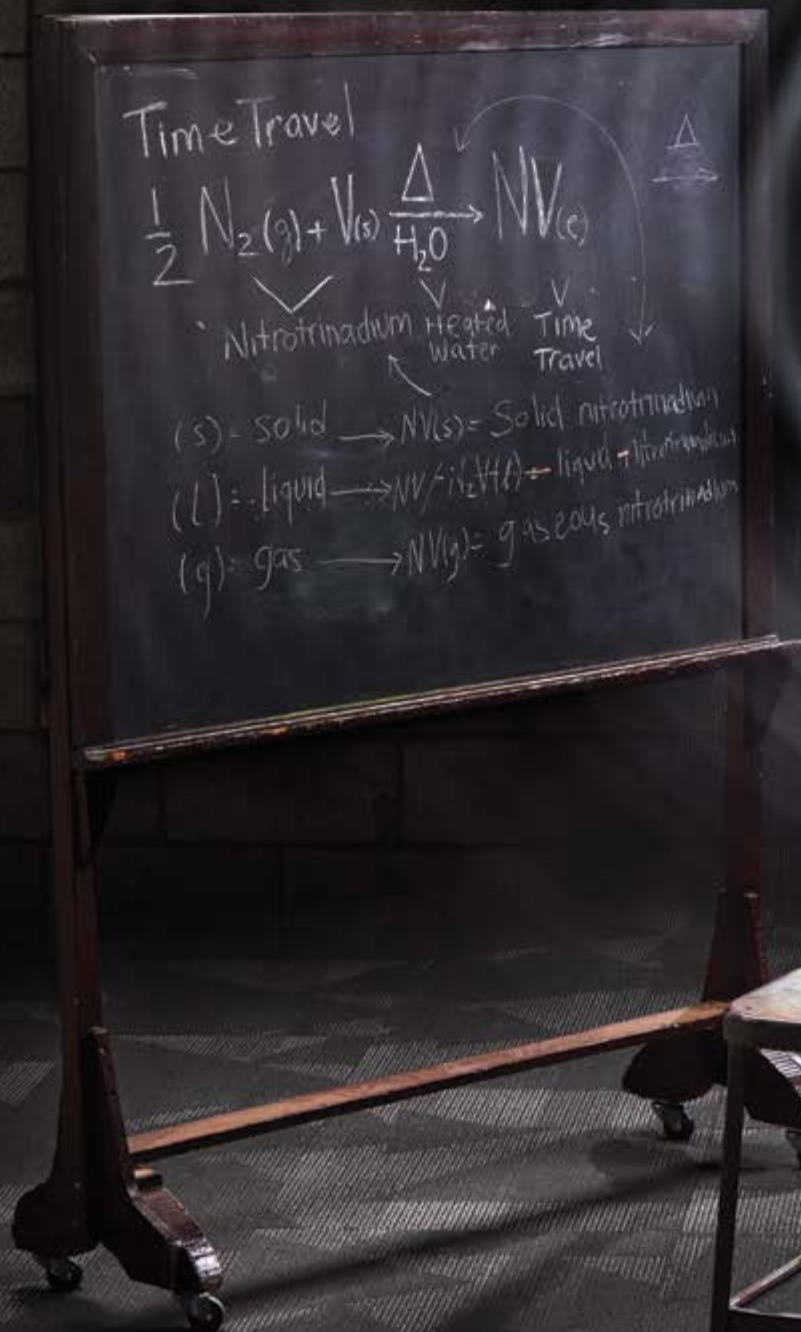
**TECH UPD8**

4TDT40220T  
Binary 400006  
24 in x 24 in

Brick



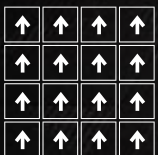




## SUPERCOMPUTER

4SAT40220T  
 Algorithm 400011  
 24 in x 24 in

Monolithic





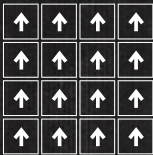




**SUPERCOMPUTER**

4SAT40220T  
Algorithm 400011  
24 in x 24 in

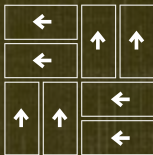
Monolithic



**TECH UPD8**

4TDT40AA0T  
Golden Rectangle 400013  
Plus or Minus 400014  
18 in x 36 in

Parquet

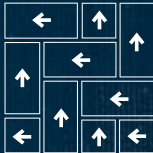




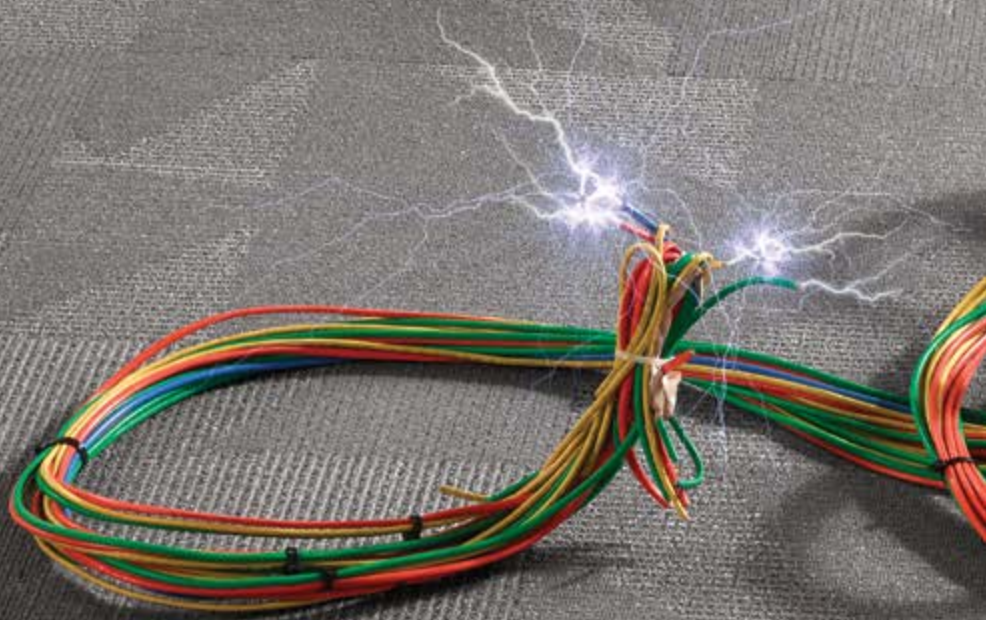
**SUPERCOMPUTER**

4SAT40AA0T  
Plus or Minus 400014  
18 in x 36 in

Herringbone



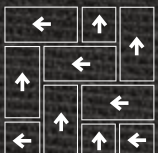




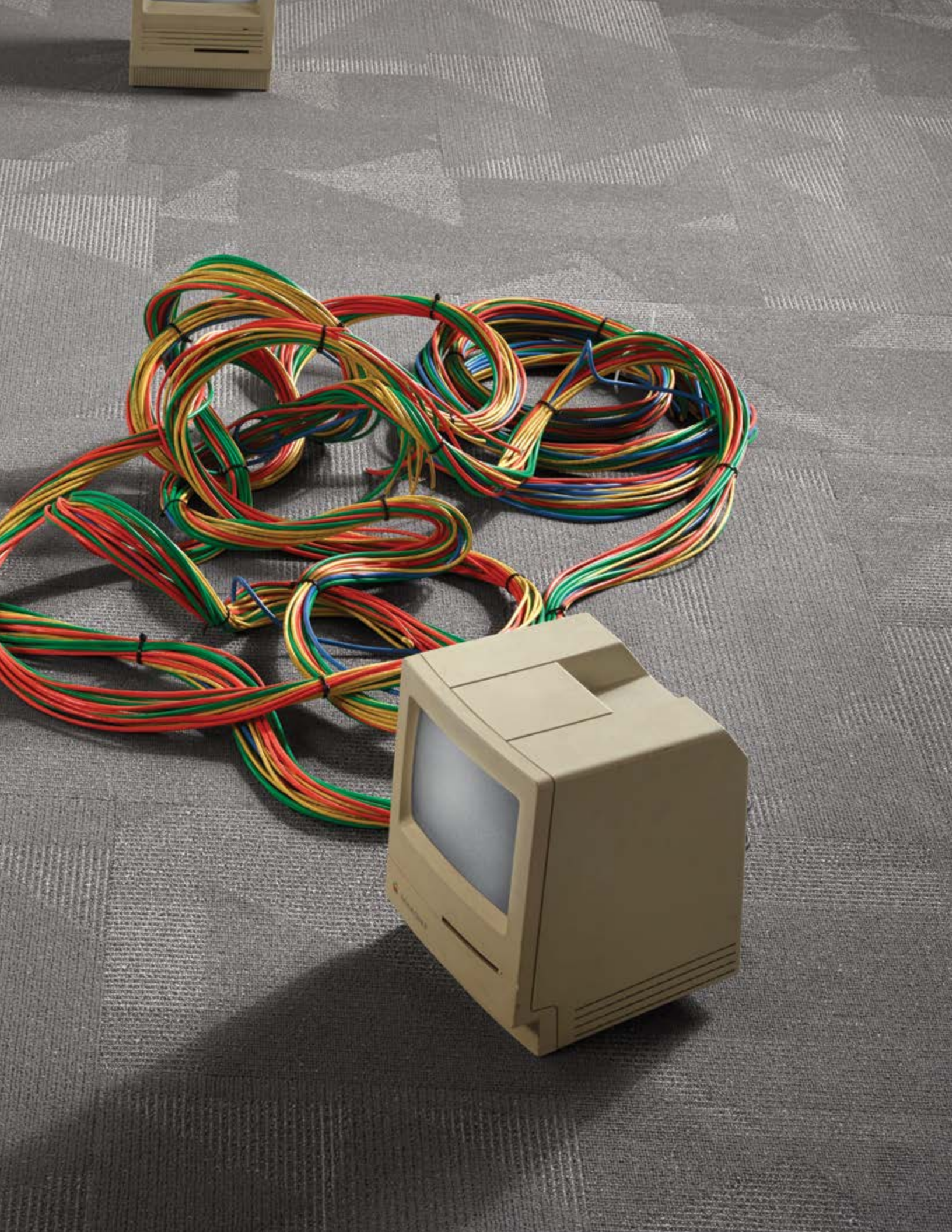
## SUPERCOMPUTER

4SAT40AA0T  
Theorem 400012  
18 in x 36 in

Herringbone





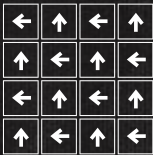




SUPERCOMPUTER

4SAT40220T  
Algorithm 400011  
24 in x 24 in

Quarter Turn



SUPERCOMPUTER

4SAT40AA0T  
Theorem 400012  
18 in x 36 in

Brick





**SUPERCOMPUTER**

4SAT40AA0T  
Theorem 400012  
Plus or Minus 400014  
18 in x 36 in

Parquet



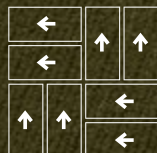




## SUPERCOMPUTER

4SAT40AA0T  
Golden Rectangle 400013  
18 in x 36 in

Parquet





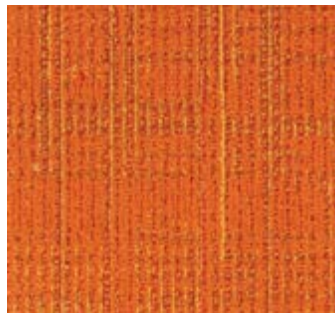




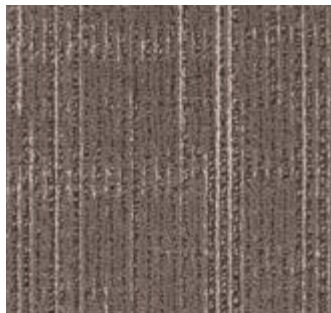
MATH CLUB COLLECTION color line as featured in architect folder.



Geometry 400005



Binary 400006



Integer 400007



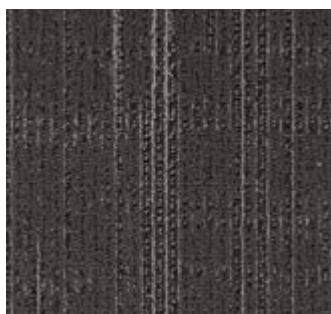
Tensor 400008



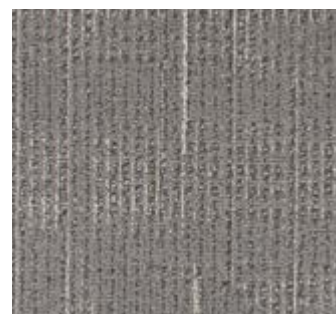
Prime 400009



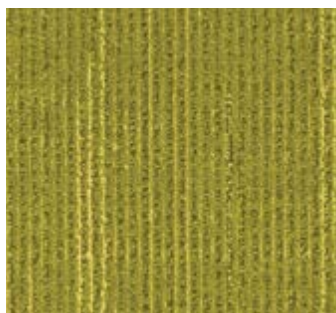
Complex Number 400010



Algorithm 400011



Theorem 400012



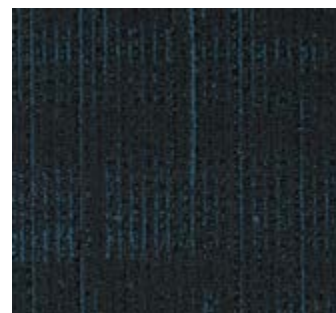
Golden Rectangle 400013



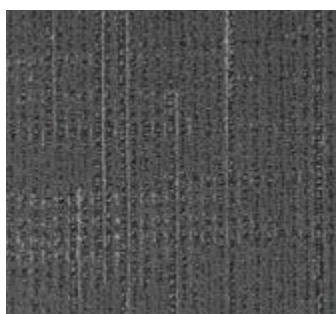
Plus or Minus 400014



Factor 400015



Scalar 400016



Nonzero 400017

The printed images may not be an accurate reproduction of the products' actual colorways. We strive to offer an authentic representation, but images may vary according to press run. These images are intended as a guide only. If you would like a sample of this product, please call Customer Care at 800.423.4709.



## SPECIFICATIONS

## SUPERCOMPUTER™

## TECH UPD8™

Style Number	4SAT4	4TDT4
Product Construction	Tufted Textured Loop	Tufted Textured Loop
Fiber	Antron® Legacy™ Type 6,6 Nylon	Antron® Legacy™ Type 6,6 Nylon
Dye Method	COLORCAST™	COLORCAST™
Soil/Stain Protection	XTERA™	XTERA™
Secondary Backing	NexStep® Cushion Tile	NexStep® Cushion Tile
	AFIRMA™ Hardback Tile	AFIRMA™ Hardback Tile
Machine Gauge	1/12 in (47.2 ends/10 cm)	1/12 in (47.2 ends/10 cm)
Stitches	9.3/in (36.6 ends/10 cm)	10.5/in (41.3 ends/10 cm)
Pile Density	5,381 oz/yd³	5,478 oz/yd³
Total Weight		
NexStep® Cushion Tile	92 oz/yd² (3,119.3 g/m²)	92 oz/yd² (3,119.3 g/m²)
AFIRMA™ Hardback Tile	73 oz/yd² (2,475.1 g/m²)	73 oz/yd² (2,475.1 g/m²)
Total Thickness		
NexStep® Cushion Tile	0.315 in (8.0 mm)	0.325 in (8.3 mm)
AFIRMA™ Hardback Tile	0.195 in (5.0 mm)	0.205 in (5.2 mm)
Pattern Repeat	None	None
Radiant Panel	Passes Class 1, ≥ 0.45 W/cm² (ASTM-E648)	Passes Class 1, ≥ 0.45 W/cm² (ASTM-E648)
Smoke Density	< 450 dm Corrected (ASTM-E662), Flaming	< 450 dm Corrected (ASTM-E662), Flaming
Static	≤ 3.5 kV (AATCC-134), Step	≤ 3.5 kV (AATCC-134), Step
Flammability	Passes Methenamine Pill Test (CPSC-FF1-70)	Passes Methenamine Pill Test (CPSC-FF1-70)

**When selecting colors beyond those swatched in the architect folder, COLORCAST™ utilizes a standard order size of 50 square yards in tile or broadloom (based on availability) and up to 5% overage, with no upcharges. For more information, please contact your local account executive.**

**Fast Track** is Bentley's quick-ship program. This program is designed for maximum flexibility and expedited delivery to the client. Supercomputer and Tech UpD8 are available in 13 colorways in 18 in x 36 in and 24 in x 24 in NexStep® Cushion Tile and AFIRMA™ Hardback Tile. Orders of 1,500 square yards or less will be ready to ship within 10 business days of order. For orders exceeding 1,500 square yards, please contact our Customer Care Concierge for availability. Custom color option not part of Fast Track program.



## STYLE NUMBERS

## SUPERCOMPUTER

## TECH UPD8

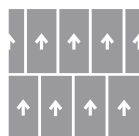
## BACKING

## SIZE

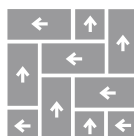
4SAT40AA0T	4TDT40AA0T	NexStep® Cushion Tile	18 in x 36 in (45.72 cm x 91.44 cm)
4SAT40220T	4TDT40220T	NexStep® Cushion Tile	24 in x 24 in (60.96 cm x 60.96 cm)
4SAT40AA0K	4TDT40AA0K	AFIRMA™ Hardback Tile	18 in x 36 in (45.72 cm x 91.44 cm)
4SAT40220K	4TDT40220K	AFIRMA™ Hardback Tile	24 in x 24 in (60.96 cm x 60.96 cm)

## RECOMMENDED CARPET TILE INSTALLATION METHODS

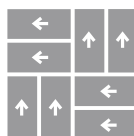
## 18 in x 36 in



Brick

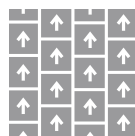


Herringbone

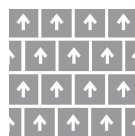


Parquet

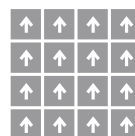
## 24 in x 24 in



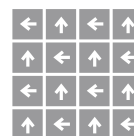
Ashlar



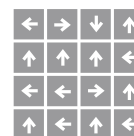
Brick



Monolithic



Quarter Turn



Random

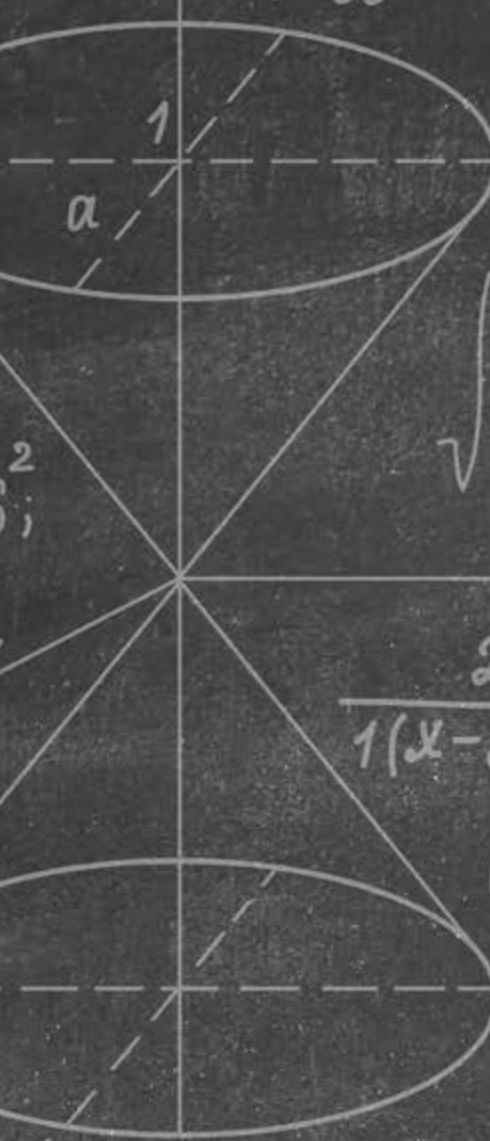
Bentley's High PerformancePC, NexStep® Cushion Tile, and AFIRMA™ Hardback Tile products are Cradle to Cradle Certified™ Silver. Bentley products are also certified under the NSF/ANSI Standard 140 – Sustainable Carpet Assessment (NSF 140). Six of Bentley's standard backing products are NSF 140 certified at the Gold level or above. Bentley's carpet products are manufactured in our California mill, a LEED for Existing Buildings: Operations and Maintenance (LEED®-EBOM) Gold certified facility. Please inquire about product warranties for specific backing options.

Patterned carpet may require special attention by the installer to assure a suitable match, and must be addressed in the original labor quotation. Products that go through the shearing process may result in a small loss of yarn weight. Slight variations in color among different production lots are normal and should be considered in the overall installation plan. Carpet specifications and components are subject to normal manufacturing tolerances and may change without notice. Technical performance characteristics are subject to adjustment based on results of post-manufacture testing. Product warranted in accordance with the terms and conditions of Bentley's standard printed warranty in effect at time product is sold. All other warranties, including without limitation any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed. Made in USA. Warning: unauthorized reproduction of this carpet design constitutes copyright infringement. ©2017 Bentley Mills, Inc.

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(BK-CP-MC-0717)

**BENTLEY®**





$$q = \frac{\partial^2 f}{\partial x \partial y} \quad J_{y\bar{z}} = J_{\bar{z}y} = \frac{\pi l k^3}{4}$$

$$\sqrt{\frac{1 - \alpha^2 \xi^2 - \beta^2 \eta^2}{1 - \xi^2 - \eta^2}} \quad \frac{h + \sqrt{R^2 + h^2}}{R} \quad \frac{2x^3 + x^6 + 2x}{x^6 + 2x}$$

$$W = \int_0^{2\pi} \int_0^h \frac{R d\bar{z} d\theta}{(R^2 + \bar{z}^2)^2} \quad S = 2\pi \alpha \beta \cdot \frac{1 - \xi^2 - \eta^2}{2} \quad \int r^3 dr = \frac{\pi h^2 l R}{2} \rho, S = 2\pi$$

$$\left( \frac{1}{R} - \frac{1}{\sqrt{(R^2 + h^2)}} \right); \quad \frac{2}{x(x+1)} \quad \frac{u^2 - 1}{u^2 - a^2} \quad \beta$$

$$f(5,3) = \frac{25}{\sqrt{5^2 - 3^2}} = \frac{10}{\sqrt{25 - 9}} \quad 6x \ln x + 3$$

$$F_2 = \int_0^{2\pi} \int_0^h \frac{\bar{z} R d\bar{z} d\theta}{(R^2 + \bar{z}^2)^{3/2}} \quad \frac{2}{1(x-2x)}; \quad \lim_{n \rightarrow \infty} \frac{2n^2 - 9n + 5}{6n^2 + 4n + 0} \quad \lim_{n \rightarrow \infty}$$

$$u = - \frac{a \cos \varphi d\varphi}{\sin^2 \varphi} \quad x^3 + 5x^2 + 2x + 6x \ln x + 3x^2 + 2x \quad \lim_{n \rightarrow \infty} \frac{2 - 0}{6}$$

$$\mu = \arcsin \frac{\sqrt{a^2 - c^2}}{d} \quad \xi^2 + \eta^2 = 1 \quad \int_1^\infty \frac{u du}{\sqrt{(u^2 - a^2)(u^2 - \beta^2)}} \quad \left( \frac{1}{x} \right) \lim_{n \rightarrow \infty}$$

$$f(5,3) = \frac{25}{\sqrt{5^2 - 3^2}} = \frac{10}{\sqrt{25 - 9}} \quad y \uparrow \quad \frac{u^2 - 1}{u^2 - \beta^2} \quad x^6 + 2x$$