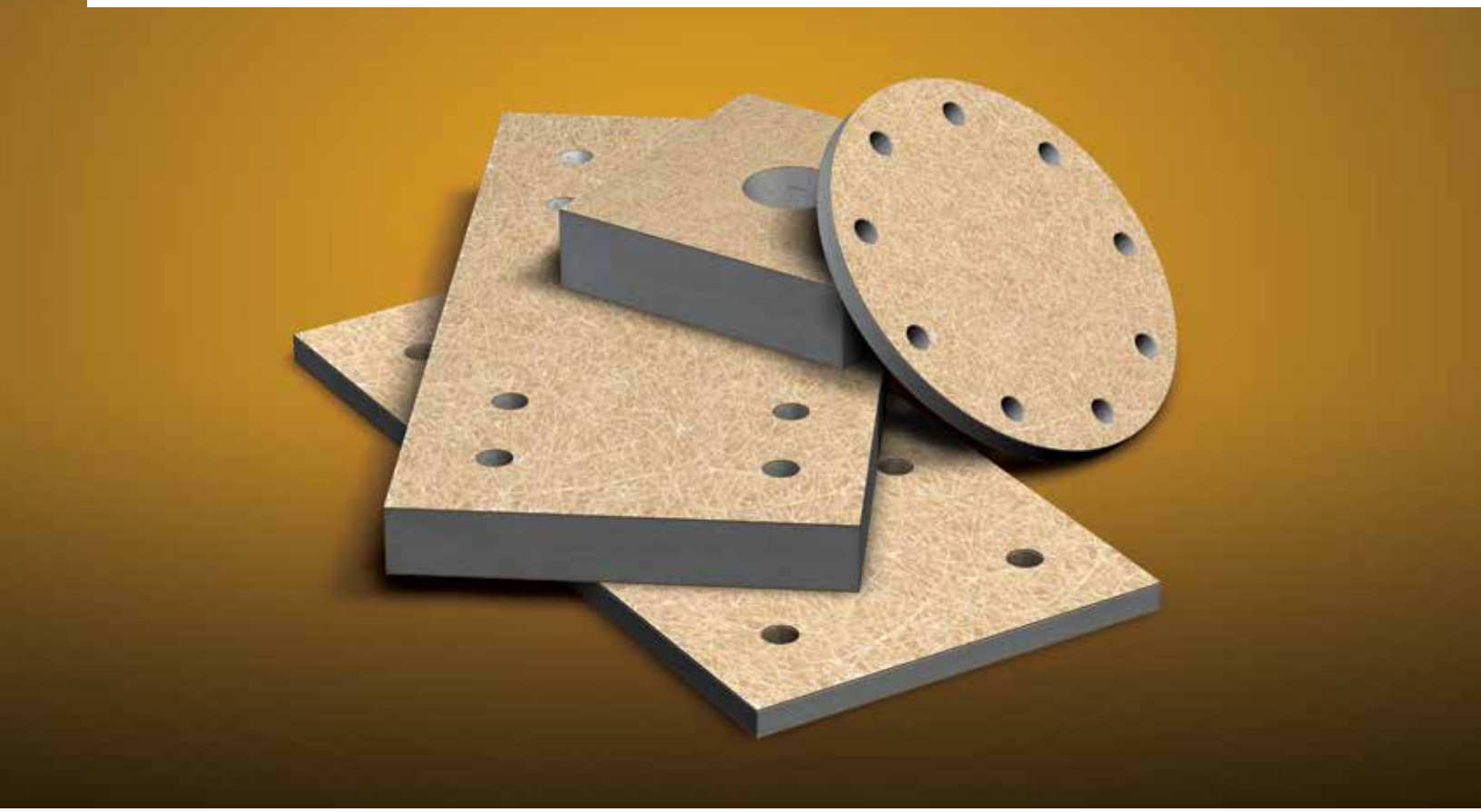
VOSS Engineering, Inc.

BRIDGE & STRUCTURAL BEARING PADS . SHOCK DAMPENING MATERIALS



VTB—Voss Thermal Break Pads

VTB material is Voss Engineering Inc.'s load bearing, thermal break product designed for use between structural framing elements that penetrate the building envelope. Thermal loss through conduction at structural connections can lead to increased energy consumption and the damaging impact of condensation on interior finishes and indoor air quality.

As the global community of building owners and users increasingly look beyond first costs when evaluating a structure, thermal bridging issues at the building envelope should be addressed. Incorporating thermal break pads in the connections at the building envelope can lower annual operating expenses by reducing energy and maintenance costs.

VTB material is available in the following thickness:

- VTB25 ($^1/_4$")
- VTB50 ($^1/_2$")
- VTB75 ($^3/_4$")
- VTB100 (1")

VTB washers and isolation bushings are also available.

VTB Material Properties

	ASTM / UL NO.	VALUE/UNITS
Mechanical		
Tensile Strength	D638	9,400 psi
Flexural Strength	D790	22,300 psi
Compressive Strength	D695	38,900 psi
Shear Strength	D732	13,400 psi
Thermal		
Thermal Conductivity	C177	1.8 BTU•in/hr•ft^2•°F
Coefficient of Thermal Expansion	D696	2.2 in/in/°C × 10^{-5}
Flame Resistance		
UL Subject 94	UL94	HB
Oxygen Index	D2863	21.8 %O_2

6965 NORTH HAMLIN AVENUE . LINCOLNWOOD, IL 60712-2549 . P: 847.673.8900 . 800.323.3935 . F: 847.673.1408 . WWW.VOSSENGINEERING.COM