

The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.



Thermally Enhanced Core

Ceco Door eBook

QMAX Thermally Enhanced Core in Imperial Series Doors

About This eBook...

This playbook is intended to provide an overview of the QMAX Thermally Enhanced Core in Imperial Series doors from Ceco Door.

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QMAX
Thermally Enhanced Core

What Is
QMAX?

Applications

Construction

Performance

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Public

What Is the QMAX Core in Imperial Series Doors?


- QMAX is a new thermally enhanced core for Imperial Series doors intended for applications where polyurethane cores are normally specified.
- The new QMAX thermally enhanced core in Imperial Series doors has a significantly improved thermal rating (0.32 U-value) over the previously published polyurethane core rating (0.38 U-value) in a Mercury 3 thermal break frame.
- **25% better thermal performance** reducing building energy costs and lowering the cost of ownership!
- Same price as the current polyurethane core



Experience a safer and more open world


Fast Facts

What you need to know



Imperial Door With QMAX Thermally Enhanced Core

NEW QMAX
Thermally Enhanced Core




Superior energy efficiency


0.32 U Value


25%

Better thermal performance than published polyurethane core



Up to 5'0" x 10'0" singles and 10'0" x 10'0" pairs





UL GreenGuard and GreenGuard Gold Certified low-emitting product

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Common Applications

- K-12
- University
- Healthcare
- Worship
- Government
- Municipality
- Parks and Recreation
- Any exterior application



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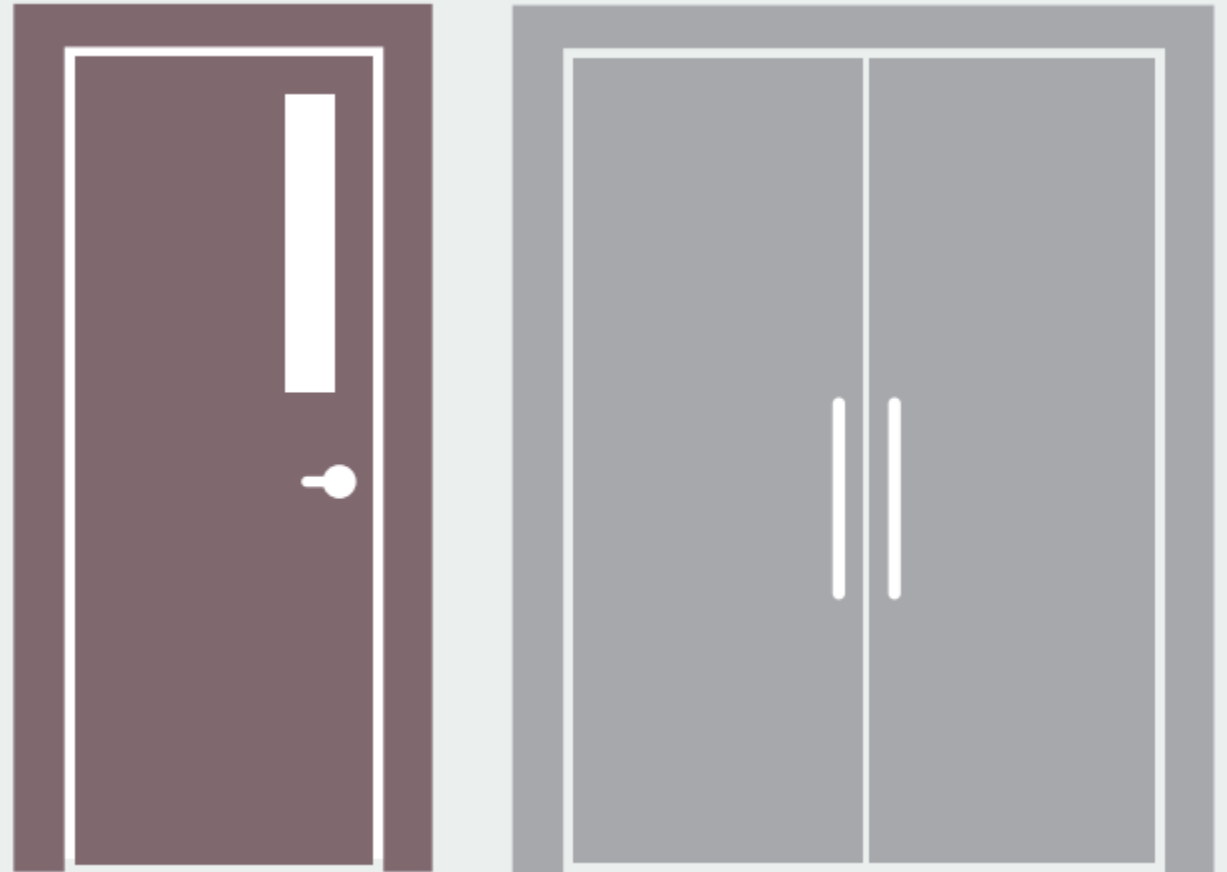


Public

Door Construction

Singles and Pair Sizes

Singles up to 5'0" x 10'0" and
10'0" x 10'0" pairs maximum size



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Door Construction

- Tab and slot construction
- 20, 18, 16 and 14 Gauges available
- CRS, A40 or A60 galvanneal with optional G90 galvanized face sheets
- Fire rated up to 3 hours
 - Up to 4'0" x 8'0" singles and 8'0" x 8'0" maximum size
- Hurricane ratings available up to 150psf
 - Up to 4'0" x 8'0" singles and 8'0" x 8'0" maximum size



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Core Construction



Thermally Enhanced Core

- 25% energy savings over prior core design helps reduce energy consumption
- 100% recyclable with post-industrial and post-consumer recycled content
- 13.6% Carbon footprint reduction
- Environmentally friendly containing no hazardous materials or off-gassing

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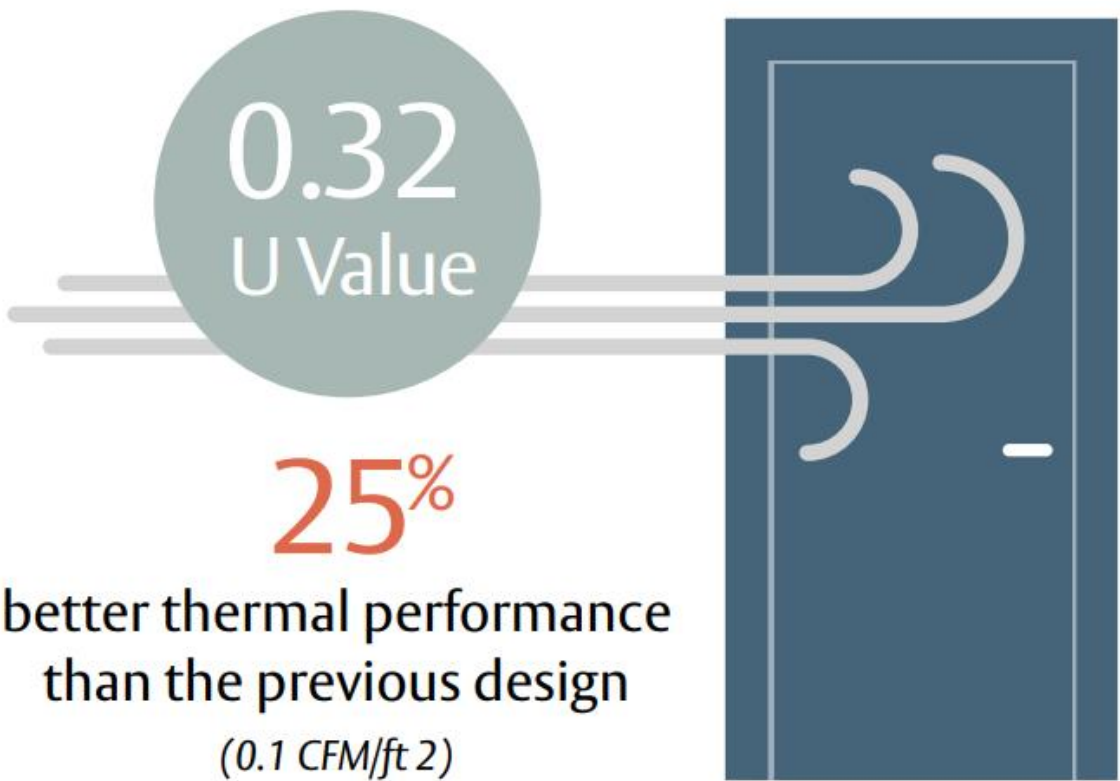
Tools and Resources



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Thermal Performance

Superior Energy Efficiency



Thermally Enhanced Core

Provides enhanced performance
when paired with the
Mercury 3 Thermally Broken Frame
(0.32 U-Value*)

* Tested U-Value per SDI-113 application of ASTM C1363,
NFRC 102 and ASTM 1199 and prior test history

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Thermal Performance

- Imperial with QMAX Core and Mercury 3 Thermal Break Frame
 - 0.32 U value 25% operational energy savings over published polyurethane core U value of 0.38
- Imperial with QMAX Core and Kerf Frame
 - 0.37 U value 19% operational energy savings over published polyurethane core U value of 0.38
- Imperial with QMAX Core and Masonry Frame
 - 0.37 U value 20% operational energy savings over published polyurethane core U value of 0.40

Opening	Core	Thermal Rating (U-Value)
3'0" x 7'0" flush door, Mercury 3 Thermal Break Frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.32
	Ceco Imperial with Polyurethane core	0.38
3'0" x 7'0" flush door, kerf frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.37
	Ceco Imperial with Polyurethane core	0.38
3'0" x 7'0" flush door, masonry profile frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.37
	Ceco Imperial with Polyurethane core	0.40
^A Testing per SDI-113, NFRC-2023, ASTM C1199, ASTM C1363 & ASTM E1423 ^B Frame infill: R19 Kraft-faced 2" x 6" fiberglass		

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Sustainability

Sustainable Building Programs Credits & Codes

- ASHRAE 189.1 - 8.4.2.6: Ceiling & Wall Systems
- LEED v4 – Building Design & Construction
 - EQ Credit 2 – Low Emitting Materials
 - EQ Credit 4 – Indoor air Quality Assessment, Option 2 Air Testing

Certifications

- GreenGuard and GreenGuard Gold

Pending Certifications

- Environmental Product Declaration (EPD)
- Green Circle Certified Environmental Facts (CEF)
- Passive House certification (PHIUS)



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Government Regulations

Can Meet the Following Government Regulations*

- Buy America Act (DOT)
- Buy American Act
- Build America Buy America Act (BABAA)
- Trade Agreement Act
- American Iron & Steel (AIS)

*Contact your Government Business Development manager to verify size and manufacturing location is



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Series Codes

EDGE and OrderPro Ordering

- Ceco Series Codes
 - **IQ** – Imperial with QMAX Thermally Enhanced core **handed**
 - **VQ** – Versadoor with QMAX Thermally Enhanced core **Non-handed**

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Value Proposition

Benefits

- 25% Better thermal protection than current polyurethane core
- 0.32 U-Value with Mercury 3 Thermal Break Frame, 0.37 U-Value with kerf and masonry frames
- High performing thermal and air infiltration ratings helps reduce heat transfer and air leaks which helps to reduce building energy costs and lower cost of ownership
- GreenGuard and GreenGuard Gold certified with other certifications pending
- 3-hour fire ratings and hurricane capabilities available
- Quick ship options available
- Manufactured in the USA and can be supplied to meet urgent jobsite demands while able to meet government regulations
- Up to 5'0" x 10'0" singles and 10'0' x 10'0" pairs max sizes
- Most energy efficient door available from Ceco
- The perfect addition to a sustainably built environment

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- [Technical Manual](#)
- [Energy Efficient Fact Sheet](#)
- [Video](#)

Imperial Door With QMAX Thermally Enhanced Core



Along with improved thermal properties, the new QMAX core has many additional sustainable characteristics:

- 100% Recyclable with post-industrial and post-consumer recycled content
- 13.6% Carbon footprint reduction
- Environmentally friendly containing no hazardous materials or off-gassing
- Long term stable U and R value to help reduce energy consumption with 25% energy savings over prior core design
- Sizes up to 5'0" x 10'0" singles and 10'0" x 10'0" pairs
- Fire rated up to 3 hours

QMAX is a new thermally enhanced core for Imperial Series doors intended for applications where polyurethane cores are normally specified.

The new QMAX thermally enhanced core in Imperial Series doors has a significantly improved thermal rating (0.32 U value in a Mercury 3 Thermal Break frame and 0.37 in a masonry frame) over the previously published polyurethane core rating (0.38 U value in a Mercury 3 Thermal Break frame and 0.40 U value in a masonry frame). As a result, the new QMAX core is replacing polyurethane cores for Imperial Series doors.

Opening	Core	Thermal Rating (U-Value)
3'0" x 7'0" flush door, Mercury 3 Thermal Break Frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.32
	Ceco Imperial with Polyurethane core	0.38
3'0" x 7'0" flush door, kerf frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.37
	Ceco Imperial with Polyurethane core	0.38
3'0" x 7'0" flush door, masonry profile frame	Ceco Imperial with QMAX thermally-enhanced core ^{A,B}	0.37
	Ceco Imperial with Polyurethane core	0.40

^A Testing per SD-113, NFRC-2023, ASTM C1199, ASTM C1363 & ASTM E1423 ^B Frame Infill: R19 No off-faced 2" x 6" fiberglass

Contact your Ceco Customer Service Professional or your local ASSA ABLOY Door Security Solutions Representative to find out more.

Ceco Door
9159 Telecom Drive | Milan, TN 38358
Tel (888) 264-7474 | Fax (866) 465-9975
www.cecedoor.com

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