

Model 2030 Hinged Pairs

Introduction:

The following three (3) part specification offers the Standard and *Optional* features for the Model 2030 Hinged Pairs Operable Wall System. The yellow highlighted areas in the specification indicate an *Optional* selection that is available based on your project requirements.

In order to assist you with the design criteria KWIK-WALL has provided a Product Guide and Track & Carrier Selection Chart for the Model 2030.

The Product Guides indicate the acoustical ratings (STC) available, and also establishes the maximum partition height and width.

MODEL 2030 PRODUCT GUIDE Standard Acoustical Substrate Construction				
	PANEL	MAXIMUM	MAXIMUM	MAXIMUM
STC	THICKNESS	PANEL WEIGHT	PANEL	WALL
RATING	(nominal)	lb. / ft. ²	HEIGHT	WIDTH
42	3" [76]	6.5 (32 kg/m ²)	14'-2" (4.32 m)	Unlimited
45	3" [76]	7.5 (36.6 kg/m ²)	14'-2" (4.32 m)	Unlimited
49	3" [76]	9.0 (44 kg/m ²)	14'-2" (4.32 m)	Unlimited
50	3" [76]	9.0 (44 kg/m ²)	14'-2" (4.32 m)	Unlimited

Note: Optional Wood Veneer or High Pressure Laminate only available as Acoustical Substrate Construction.

MODEL 2030 PRODUCT GUIDE Optional Steel Skin Construction				
	PANEL	MAXIMUM	MAXIMUM	MAXIMUM
STC	THICKNESS	PANEL WEIGHT	PANEL	WALL
RATING	(nominal)	lb. / ft. ²	HEIGHT	WIDTH
49	3" [76]	8.0 (39 kg/m ²)	16'-2" (4.93 m)	Unlimited
51	3" [76]	11.0 (54 kg/m ²)	16'-2" (4.93 m)	Unlimited

The Track & Carrier Selection Chart determines the appropriate track and carrier system based on the STC Rating and Panel Fabrication Height.

* Estimated panel weights are for intermediate panels. Weight may vary due to substrate, size, or function of panel. Add 105 lbs [47kg] for pass door. Add 6 lbs [3kg] per lin ft height for expanders. Add 3.5 to 8 lbs [1.6 to 3.6kg] per lin ft for track.
 **Standard features can be modified, contact your Kwik-Wall distributor for the features you want.
 *** Horizontal Splice: Heights over 14'2" [4.31] with Acoustical Substrate require a structural splice.

MODEL 2030 - TRACK AND CARRIER SELECTION CHART

PANEL SKIN TYPE	MAXIMUM PANEL WEIGHT lb. / ft. ²	STC RATING	PANEL FABRICATION HEIGHT*								
			Up to 8'-2" (2.49 m)	Up to 9'-2" (2.79 m)	Up to 10'-2" (3.10 m)	Up to 11'-2" (3.40 m)	Up to 12'-2" (3.71 m)	Up to 13'-2" (4.01 m)	Up to 14'-2" (4.32 m)	Up to 15'-2" (4.62 m)	Up to 16'-2" (4.93 m)
Acoustical Substrate	6.5 (32 kg/m ²)	42									
Acoustical Substrate	7.5 (36.6 kg/m ²)	45	425 Track & Carriers								
Acoustical Substrate	9.0 (44 kg/m ²)	49									
Acoustical Substrate	9.0 (44 kg/m ²)	50					850 Track & Carriers				
Steel Skin	8.0 (39 kg/m ²)	49									
Steel Skin	11.0 (54 kg/m ²)	51									

*Based on 4'-0" (1.22 m) Intermediate panel widths. Depending on panel options selected KWIK-WALL may require 850 Track & Carriers.

Model 2030 Hinged Pairs Product Specification

PART 1 – GENERAL SPECIFICATIONS

1.01 WORK INCLUDED

- A. Operable wall system shall be furnished, installed and serviced by wall manufacturer's authorized distributor, in compliance with the architectural drawings and specifications contained herein.

1.02 RELATED WORK

- A. Structural Support: Structural support system required for suspending the operable wall shall be designed, installed and pre-punched by others, in accordance with ASTM E 557 and manufacturer's shop drawings.
- B. Insulation: Sound insulation and baffles for the plenum area above the track system, under the permanent floor, inside air ducts passing over or around the operable wall, and in permanent walls adjoining the operable wall system shall be by others, in accordance with ASTM E 557.
- C. Opening Preparation: Proper and complete preparation of the operable wall system opening shall be by others in accordance with ASTM E 557, and shall include floor leveling; plumbness of adjoining permanent walls; substrate and/or ceiling tile enclosures for the track system; and the painting and finishing of trim and other materials adjoining the head and jamb areas of the operable wall. Any permanent wall(s) receiving an adjustable or fixed wall jamb will require internal structural blocking in order to secure the jamb to the permanent wall. Refer to a copy of the shop drawings for additional details.

1.03 SYSTEM DESCRIPTION

- A. The operable wall system shall consist of Hinged Pair Panels that are top supported by one (1) carrier. Featuring panels hinged together in evenly matched pairs (groups of two (2)), unless otherwise specified.

- B. The operable wall system shall consist of acoustically rated panels tested in accordance with ASTM E 90 and ASTM E413 test procedures, and shall have achieved a STC rating as specified herein (see "Acoustical Performance" article listed under Part 2 – Products).

1.04 QUALITY ASSURANCE

- A. The operable wall shall have been tested in an independent acoustical testing laboratory in accordance with ASTM E 90 and ASTM E 413 test procedures.
- B. The operable wall panel construction and finish materials shall consist of Class A rated materials (except as noted, under "Finishes" Part 2 – Products) in accordance with ASTM E 84.
- C. The operable wall shall be installed by the manufacturer's authorized distributor in accordance with ASTM E 557.

1.05 REFERENCES

- A. ASTM E 90: Laboratory Measurement of Airborne-Sound Transmission Loss of Building Partitions.
- B. ASTM E 413: Determination of Sound Transmission Class (STC).
- C. ASTM E 557: Architectural Application and Installation of Operable Partitions.
- D. ASTM E 84: Surface Burning Characteristics of Building Materials.
- E. ASTM A 653: Specification for General Requirements for Steel Sheet, Alloy-Coated (Galvanneal) by the Hot Dip Process.
- F. ASTM C 423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- G. CCC-W-408A: Federal Specification which applies to Vinyl Coated Wall Coverings.
- H. CFFA-W-101-D: Chemical Fabrics and Film Association Quality Standard for Vinyl Coated Fabric Wall Coverings.

1.06 SUBMITTALS

- A. Manufacturer shall provide written technical information and related detail drawings, which demonstrate that the products comply with contract documents for each type of operable partition specified.
- B. Manufacturer shall provide detailed engineering drawings featuring track plan, panel elevation, horizontal and vertical details and beam punching template as required.
- C. Manufacturer shall provide written test report of the independent acoustical testing laboratory certifying the attainment of the specified STC rating, upon request.
- D. Manufacturer shall provide written instructions specifying the proper operation and maintenance of the operable wall system.
- E. Manufacturer shall provide a color selector demonstrating the manufacturer's selections of the specified finish material. Samples shall consist of actual swatches of the specified finish material.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Panels shall be individually wrapped in a protective plastic covering to keep panels clean during delivery, storage and handling.
- B. Panels shall be stored on edge and above the floor on cushioned blocking in a dry and ventilated area, protected from humidity and temperature extremes.

1.08 SEQUENCING / SCHEDULING

- A. Beam Punching: Manufacturer shall provide beam punching template drawing detailing the anchor locations for the suspended track system (as required for Drop Rod Mounting), as required for the fabrication and installation of structural overhead support by others.

- B. Track Installation: Scheduling of operable wall track installation shall occur after structural overhead support has been properly and completely fabricated and installed by others.
- C. Panel Installation: Operable wall panel installation shall occur after fixed wall substrate construction is properly and completely installed by others, as required to protect panels from ongoing adjacent construction.

1.09 WARRANTY

Manufacturer shall warrant each operable wall panel and its component parts to be free from defects in material and workmanship for a period of five (5) years from the date of delivery to the original purchaser, when installed by an authorized KWIK-WALL distributor. KWIK-WALL also warrants the fixed top seals, track, carriers, and its component parts to be free from defects in material and workmanship for a period of ten (10) years. (Contact your local KWIK-WALL Distributor or KWIK-WALL Company for complete warranty information.)

PART 2 – PRODUCT SPECIFICATIONS

2.01 ACCEPTABLE MANUFACTURER

- A. Operable walls shall be Series 2000, Model 2030 Hinged Pairs as manufactured by KWIK-WALL Company.

2.02 PANEL CONSTRUCTION

- A. Panel Dimensions: Standard panel dimension shall be a nominal 3" [76] thick.
- B. Panel Frame: Vertical steel frame members shall be minimum 18-gauge galvanized steel, horizontal top cross member shall be minimum 12-gauge galvanized steel, which meets or exceeds ASTM A 653 requirements. Frame shall be all-welded construction with steel corner supports and cross-bracing reinforcements. Panel frame shall be Class A rated fire retardant, non-combustible and non-corrosive in accordance with ASTM E 84.
- C. Panel Skins: Panel skins shall be Class A rated (except Wood Veneer and High Pressure Laminate) in accordance with ASTM E 84. Panel skin material shall consist of (select):
 1. *Standard Acoustical Substrate*: consisting of structural acoustical substrate pressure laminated to both sides of the steel frame to form a rigid, unitized and structural panel.
 2. *Optional Steel Skins*: consisting of minimum 22-gauge tension-leveled galvanized steel, pressure laminated to a structural acoustical backer and too the steel frame to form a rigid, unitized and structural panel.
 3. *Optional Wood Veneer*: consisting of particle board core covered with wood veneer and pressure laminated to both sides of the steel frame to form a rigid, unitized and structural panel.
 4. *Optional High Pressure Laminate*: consisting of gypsum board core covered with general purpose plastic laminate and Phenolic backer sheet, which is pressure laminated to both sides of the steel frame to form a rigid, unitized and structural panel.
*Optional Wood Veneer or High Pressure Laminate only available as Acoustical Substrate Construction.
- D. Panel Hinges: Panel hinges shall be (select)
 1. Architectural grade, full leaf butt hinges.
 Hinges shall be attached to the steel frame of the panel and reinforced with a steel backer plate.
- E. Panel Weight: Maximum panel weight shall be 6.5 – 12.0 lb./ft.² (32 – 59 kg/m²) depending on STC rating, size and options selected.

2.03 OPERATION

- A. Operation shall be Hinged Pairs, consisting of panels hinged together in groups of two (2), unless otherwise specified. Panels shall be top-supported by one (1) carrier in each panel.

2.04 STACK ARRANGEMENTS

- A. Stack Type: Panel storage configuration shall be Center Stack, consisting of panels stacked on center to the wall's installed position.

B. Stack Quantity: Panels shall be stored at (select):

1. *Standard One End*: on one end of the wall run.

2. *Optional Both Ends*: on both ends of the wall run.

2.05 FINISHES

A. Finish Material Type: Panel finish material shall be Class A (except wood veneer and high-pressure laminate) rated in accordance with ASTM E 84, consisting of (select):

1. *Vinyl*: consisting of Type II, reinforced vinyl weighing 21 oz./lin. yd. (651 g/lin. m). Vinyl shall meet or exceed CCC-W-408A and CFFA-W-101-D quality standards.

2. *Optional Upgrade Fabric*: consisting of fade and tear resistant fabric that resists water-based stains weighing 13 oz./lin. yd. (403 g/lin. m).

3. *Optional Basics Carpet*: consisting of acoustically absorbent, non-woven needle punch fibers fused to prevent fraying and unraveling of material weighing 28.5 oz./lin. yd. (884 g/lin. m). Basics Carpet shall achieve a minimum NRC (Noise Reduction Coefficient) rating of .20 (applied over gypsum substrate) in accordance with ASTM C 423.

4. *Optional Upgrade Carpet*: consisting of acoustically absorbent, non-woven needle punch fibers fused to prevent fraying and unraveling of material weighing 23 oz./lin. yd. (713 g/lin. m). Upgrade Carpet shall achieve a minimum NRC (Noise Reduction Coefficient) rating of .25 (applied over gypsum substrate) in accordance with ASTM C 423.

5. *Optional Wood Veneer*: consisting of unfinished flat cut wood veneer laminated to 1/2" [12.7] thick particle board core. Veneer shall be book / running matched within a panel, and vertically edge banded if Trimless astragals are specified.

(Notes: *Optional Class "A" rated particle board is available. Acoustical substrate STC ratings apply for Wood Veneer panel construction.*)

6. *Optional High Pressure Laminate*: consisting of gypsum board core covered with general purpose plastic laminate and Phenolic backer sheet, which is pressure laminated to both sides of the steel frame to form a rigid, unitized and structural panel.

*Optional Wood Veneer or High Pressure Laminate only available as Acoustical Substrate Construction.

(Note: *Acoustical substrate STC ratings apply for High Pressure Laminate panel construction.*)

7. *Optional Unfinished*: consisting of panels with exposed acoustical substrate or steel skins for field applied wallcovering or painting.

B. Finish Material Supplier: Finish material shall be (select):

1. *Standard Factory Supplied*: from manufacturer's standard selection of finish materials, as specified.

2. *Optional Customer Supplied*: from customer's selection of finish material, by others, and as approved by KWIK-WALL Company.

C. Finish Material Application: Finish material shall be (select):

1. *Standard Factory Applied*: by operable wall manufacturer. Customer supplied finish material samples must be submitted to manufacturer for testing and approval prior to acceptance and application.

2. *Optional Field Applied*: by others.

2.06 PERIMETER TRIM AND SEALS

A. Vertical Trim and Seals: Panels shall have vertical astragals containing flexible vinyl seals and incorporate reversible tongue-and-groove-type configurations for positive interlocking with adjacent panels. Vertical astragal type shall be (select):

1. *Standard Trimless Astragal*: consisting of an aluminum extrusion with tongue-and-groove-type vertical astragals. Vertical trim shall not be permitted on the panel faces, resulting in a minimal groove appearance between adjacent panels.

2. *Optional Cap-type Astragal*: consisting of an aluminum extrusion with tongue-and groove-type vertical astragals for encapsulating and protecting the finish material and substrate along the vertical edge of the panel.
- B. Horizontal Top Trim and Seals: Top seals shall consist of flexible vinyl sweep seals installed on both sides of the panel. The seals shall consist of a compressed bulb between two (2) fingers of vinyl. Top seal type shall be (select):
1. *Standard Fixed Top Seals*: consisting of continuous-contact flexible vinyl sealing against the bottom flange of the overhead track.
 2. *Optional Operable Top Seals*: consisting of edge-activated seal using a removable wrench as supplied by manufacturer. Top seals shall provide a maximum ½" [13] of travel.
- C. Horizontal Bottom Trim and Seals: Bottom seals shall consist of multiple fingers of flexible vinyl for positive contact and sealing with various floor surfaces. Bottom seal type shall be (select):
1. *Standard Operable Bottom Seals*: consisting of an edge-activated seal using a removable wrench as supplied by manufacturer. Bottom seals shall provide 2" [50.8] of nominal travel.
 2. *Optional Adjustable Bottom Seals*: consisting of field-adjustable, continuous-contact vinyl sweep seals with 2" [50.8] nominal height with ¾" [19] of nominal adjustment.
 3. *Optional Automatic Bottom Seals*: consisting of self-activated seals providing 2" [50.8] of nominal travel.
- D. Horizontal and Vertical Panel Trim: All exposed panel trim and hinges shall be of one (1) similar color (select):
1. Dark Bronze.
 2. Grey.

2.07 CLOSURE SYSTEMS

- A. Initial Closure System: The lead panel (the first panel exiting the stack) shall form a seal vertically against a rigid wall surface, as accomplished by a (select):
1. *Standard Bulb Seal*: consisting of continuous-contact, flexible vinyl bulb seals installed along the vertical edge of the lead panel for positive compression against a rigid wall surface.
 2. *Optional Fixed Starter Jamb*: consisting of an aluminum extrusion, which is permanently mounted to a structural wall surface. The Fixed Starter Jamb shall incorporate a tongue-and-groove-type vertical astragal for positive interlocking with the lead panel.
 3. *Optional Adjustable Starter Jamb*: consisting of an aluminum extrusion which is permanently mounted to a structural wall surface and is field-adjustable to compensate for out-of-plumb conditions of the fixed wall. The Adjustable Starter Jamb shall incorporate a tongue-and-groove-type vertical astragal for positive interlocking with the lead panel.
- B. Final Closure System: The final closure panel (the last panel exiting the stack) shall form a seal vertically against a rigid wall surface. The type of final closure panel shall be (select):
1. *Standard Expander Panel Closure*: consisting of an expander mechanism with a nominal 5" [127] of travel, activated from the face of the panel using a removable wrench as supplied by manufacturer. The Expander Panel shall be equipped with an adjustable bottom seal (standard) or (optional) operable bottom seal, and a flush pull handle.
 2. *Optional Hinged Panel(s) Closure*: consisting of a panel hinged permanently and directly to a structural wall surface. The Hinged Panel(s) shall be equipped with an adjustable bottom seal, a lap-type extrusion for sealing against its adjacent panel (standard) or (optional) expander mechanism with a nominal 5" [127] of travel, activated from the face of the panel using a removable wrench, and a flush pull handle on each side of the panel.
 3. *Optional Communicating Panel Closure*: consisting of a full-sized panel hinged permanently and directly to a structural wall surface. The Communicating Panel shall function as a full height pass door (maximum panel size: 3'-0" (.91 m) wide x 10'-2" (3.10 m) high), with an adjustable bottom seal, a lap-type extrusion for sealing against its adjacent panel, and a flush pull handle on each side of the panel.

4. **Optional Three-Panel-Train Closure:** consisting of three (3) panels hinged together to form a three-panel-train. The last panel in the train shall incorporate an expander mechanism, activated from the face of the panel with a removable wrench as supplied by manufacturer, that extends a nominal 5" [127] to seal against a rigid wall surface. The three (3) panels in the train will be equipped with adjustable bottom seals, and a flush pull handle.
5. **Optional Lap Closure:** consisting of a pair of panels equipped with bulb seals for sealing against a rigid wall surface along one (1) vertical edge, and a lap-type extrusion that overlaps with the adjacent panel on the opposite vertical edge. The Lap Closure panels shall be equipped with adjustable bottom seals, and a flush pull handle.
6. **Optional Single Panel Expander Closure:** consisting of an expander mechanism with a nominal 5" [127] of travel, activated from the face of the panel using a removable wrench. The Single Panel Expander shall be capable of rotating 360° and shall be equipped with an adjustable bottom seal (standard) or (optional) operable bottom seal, and a flush pull handle.
7. **Optional Pocket Door(s):** (see "Series 2000 Pocket Door" brochure for complete details and specifications).

Note: Optional Automatic Bottom Seal is *not* available in conjunction with Final Closure panel(s).

2.08 ACOUSTICAL PERFORMANCE

- A. Certification: The operable wall shall have been tested in an independent acoustical testing laboratory in accordance with ASTM E 90 and ASTM E 413 test procedures.
- A. STC Rating: The operable wall acoustical performance rating shall be based on (select):
 1. *Standard Acoustical Substrate:* with a standard rating of 49 STC, or optional ratings of 42 STC, 45 STC or 50 STC.
 2. **Optional Steel Skins:** with optional ratings of 49 STC or 51 STC.
(Note: Not available with optional Wood Veneer or High Pressure Laminate.)

2.09 PANEL ACCESSORIES

- A. Accessories including Pass Doors; Single or Double, Keyed Cylinder Locks, Concealed Door Closures, Room Viewers, Exit Signs, Dry Marker Writing Surfaces, Recessed Eraser Trays, Vision Lites, Tack Surfaces and Pocket Doors shall be compatible with other accessories and options, furnished and installed by the operable wall manufacturer as noted on submitted shop drawings.

2.10 TRACK SYSTEMS

- A. Track Type: The operable wall track system shall be (select):
 1. *Standard Hinged Pairs Aluminum Track:* extruded from structural aluminum alloy, which prohibits deterioration caused by rust or corrosion. The aluminum track shall have a durable anodized clear satin finish, which resists color fading and flaking. The track shall utilize grooves and interlocking steel pins for positive alignment of adjacent track sections. The track joints shall be reinforced overhead by a heavy-duty steel bracket made of hot-rolled, 3/8" [10] thick plate steel. Aluminum track shall include an integral nut slot to accept a hardened steel square nut to facilitate attachment of each steel all-rod and splice brackets to the overhead structural support.
 2. **Optional Hinged Pairs Steel Track:** consisting of roll-formed, low carbon steel, .215" [5] thick. The steel track shall have a durable powder-coated, off-white finish, which resists color fading and flaking. The steel track shall be reinforced overhead by heavy duty steel brackets made of hot-rolled, 3/8" [10] thick plate steel, as required for attaching threaded all-rod to the overhead structural support and for aligning track sections at each splice joint.
- B. Track Size: The track size shall be (selected from *Track and Carrier Selection Chart – refer to Page 1*):
 1. *Type 425 Hinged Pairs Aluminum Track:* certified to be capable of supporting up to 525 lb. (238 kg) of total live load weight per panel.

2. *Type 850 Hinged Pairs Aluminum Track*: certified to be capable of supporting up to 850 lb. (386 kg) of total live load weight per panel.
3. *Type 850 Hinged Pairs Steel Track*: certified to be capable of supporting up to 850 lb. (386 kg) of total live load weight per panel.

2.11 CARRIER SYSTEMS

- A. Carrier Type: Each Hinged Pair panel shall be top supported by one (1) carrier utilizing a 5/8" [16] diameter pendant bolt. The carrier type shall be (select):
 1. *Type 425 Polymer Tire Carrier*: consisting of four (4) permanently-lubricated, precision ball bearing steel wheels with high strength polymer tires, as required for smooth and quiet operation.
 2. *Type 850 Polymer Tire Carrier*: consisting of eight (8) permanently-lubricated, precision ball bearing steel wheels with high strength polymer tires, as required for smooth and quiet operation.
 3. *Type 850 Steel Wheel Carrier*: consisting of four (4) permanently-lubricated, precision ground ball bearing polished steel wheels, as required for ease of panel movement.
- B. Carrier Size: The carrier size shall be (select from *Track and Carrier Selection Chart – refer to Page 1*):
 1. *Type 425 Hinged Pairs Polymer Tire Carrier*: certified to be capable of supporting up to 525 lb. (238 kg) of total live load weight per panel.
 2. *Type 850 Hinged Pairs Polymer Tire Carrier*: certified to be capable of supporting up to 850 lb. (386 kg) of total live load weight per panel.
 3. *Type 850 Hinged Pairs Steel Wheel Carrier*: certified to be capable of supporting up to 850 lb. (386 kg) of total live load weight per panel.

2.12 SUSPENSION SYSTEMS

- A. Mounting Systems: The track shall be supported by (select):
 1. *Standard Drop Rod Mount*: consisting of adjustable rods of grade 2, 3/8" [10] diameter threaded steel all-rod provided with 3/8" [10] serrated steel nuts.
 2. *Optional Direct Mount*: consisting of 3/8" [10] x 3" [76] lag screws for attachment to an overhead structural (wood) support. (Direct mount track installations should not exceed 425 lb. (193 kg) of panel weight.)
 3. *Optional Drop Rod Bracket Mount*: consisting of 3/8" [10] thick steel brackets mounted to top flange of track and supported with adjustable rods of grade 2, 3/8" [10] diameter threaded steel all-rod provided with 3/8" [10] serrated steel nuts.

PART 3 – EXECUTION

3.01 INSPECTION

- A. Proper and complete preparation of the operable wall system opening shall be by others in accordance with the architectural drawings, manufacturers shop drawings and ASTM E 557. Any deviation of the actual opening from these specifications shall be called to the attention of the architect prior to the installation of the operable wall.
- B. Deficiencies in the operable wall opening shall be corrected by others prior to installation of the operable wall.

3.02 INSTALLATION

- A. The operable wall system shall be installed by manufacturer's authorized distributor.
- B. The operable wall shall be installed in accordance with manufacturer's written instructions, shop drawings and ASTM E 557 installation guidelines.

3.03 ADJUSTING AND CLEANING

- A. The operable wall panels and track system shall be adjusted and cleaned in accordance with manufacturers written instructions.

3.04 PROTECTION

- A. The operable wall panels shall be stored in the stacked (retracted) position prior to acceptance by the owner's representative.

3.05 DEMONSTRATION

- A. The operable wall manufacturer's authorized distributor shall demonstrate proper operation and explain proper and necessary maintenance requirements of the operable wall system to the owner's representative.

For additional information contact:

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Note:

Due to ongoing research and development, some variations may occur in product specifications.

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