Technical Bulletin: 2019 Door Sill Transitions & Releases

This technical bulletin has been designed to highlight the below changes and updates to Endura's offering of exterior door sills:

Summary of Updates and Improvements

The product line changes include:

- Elimination of all wood substrate sill platforms: due to the increasing demand for composite-based products, production of traditional/wood-substrate sill products will be discontinued.
- Introduction of the updated Z-Lineal sill platform: the current Z-Lineal Classic platform and the Z+ platform, have been merged to deliver unlimited cuttability, full caulking surface and a thermal break.
- Introduction of a new Oak Adjustable Z-Series platform
- Introduction of a new Exposed Nose (Z-FEN) Sill platform for 2/6, 2/8 and 3/0 Fixed Inswing sills.
- Introduction of the Replaceable Deck Sill™ (RDS) platform: Now available in three widths, 4-9/16", 5-5/8", 6-9/16" and 7-5/8" for Single, French, Hinged Patio and Continuous Sidelite Sills.
- Introduction of a new Cuttable Injection Mould platform for All-Aluminum Bumper Outswing Sills.

For a more detailed review of the information included on this page, please refer to documents included in the subsequent pages.

Product Category	Previous Product	New Product
Adjustable Inswing Sills	Al (Oak)	ZAI Oak
Aujustable Iriswirig Silis	HAI (Oak)	ZAI Oak
Fixed Inswing Vinyl	FI	ZFI
Fixed Hiswing Villyi	HFI	ZFI
Adjustable Outswing	AO	ZAO
Fixed Bumper Outswing - All Aluminum	FOB AA with wood substrate	FOB AA with composite substrate
Fixed Outswing - All Aluminum	FO/HFO	No substitute

All **Wood-Substrate-Based Sills** Have Been Discontinued With Innovative Replacements Now Available for Purchase



The New Z-Lineal Sill Platform Delivers Infinite Cuttability & a Full Caulking Surface in a More Cost-Effective Design



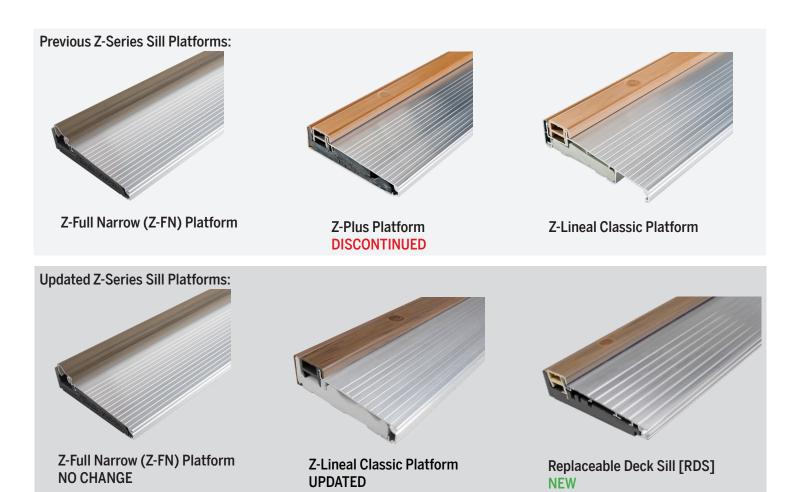
Replaceable Deck Sill™ [RDS] Available in four widths! 4-9/16", 5-5/8", 6-9/16"& 7-5/8"



Technical Bulletin: Z-Series Platform Updates

In summary, these improvements include:

- **Updated Z-Lineal Sill Platform** replacing both the current Z-Lineal Classic and Z+ sill platforms.
- Introduction of RDS Platform across wide range of widths and configurations.
- New Oak Adjustable Cap & Nosing alternative based upon our innovative Z-Series platform.
- Current Z-Lineal Classic Platform available in 12/0 lengths only.



Customer Transition Guide:

Customers Utilizing Z+ Sills: Current Z+ customers may follow one of several alternatives:

- Transition to the Z-FN Sill Platform
- Transition to the Z-Lineal Sill Platform

Customers Utilizing Z-Classic Lineal Sills: Current Z-Classic Lineal customers should transition to the <u>Z-Lineal Sill</u> platform. The previous Z-Classic Lineal sill platform is still available for 12/0 sills and 3/0-3/0-3/0 Quad sills.

Please refer to the following pages for more detailed information about modifications to these sill platforms.



Technical Bulletin: Z-Series Updated Platform Details

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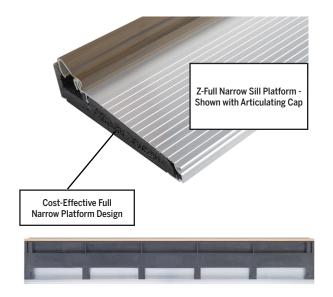
Z-Full Narrow (FN) Sill Platform

Features & Benefits:

- · Cost-effective, full narrow design
- Interchangeably compatible with ZAI, ZAIO Z-AC and ZOB
- Full length caulking surface
- · Compatible with both standard nosing and tileback
- Integrated thermal break.
- Easily converts from Inswing to Outswing

Product Availability:

- Available Widths: 3-11/16", 4-9/16", 4-7/8", 5-5/8", 5-13/16", 6-7/8", 7-13/16", 8-5/8"
- Available Lengths: 2/6, 2/8, 3/0, 5/0, 5/4, 6/0



UPDATED Z-Lineal Sill Platform

Features & Benefits:

- Updated Z-Lineal Substrate: Replaces current Z-Lineal and Z+ platforms.
- More cost-effective Z-Lineal design
- Infinite cuttability for unmatched flexibility cut to any length with ease.
- Full-length caulking surface, full-width support up to 5-5/8"
- Interchangeably compatible with Z-AI, Z-AC, ZOB and ZAIO systems, easily converts from Inswing to Outswing
- · Compatible with both standard nosing and tileback
- Integrated thermal break.

Product Availability:

- <u>Available Widths</u>: 4-9/16", 4-7/8", 5-5/8", 5-13/16", 6-7/8", 7-13/16", 8-5/8"
- Available Lengths: 2/6, 2/8, 2/10, 3/0, 5/0, 6/0, 9/0. 12/0
- *Z Classic Lineal substrate to be continued for 12/0 Lineal Sills & 3/0-3/0-3/0 Quad Sills.









Oak Adjustable Cap Alternative with Z-Series Modularity

Features & Benefits:

- Traditional Look of a Real Oak Cap
- **Z-Series Modularity:** Screw assemblies operate independently from the substrate
- **New Composite Nosing:** delivers real-oak appearance & Z-series modularity

Product Availability:

- Available Platforms: Z-FN, (updated) Z-Lineal
- Available Lengths: 2/6, 2/8, 2/10, 3/0, 5/0, 5/4, 6/0

Please refer to the following chart for a complete comparison and overview of all Z-Series Sill platforms:



Oak Adjustable Cap Alternative with Composite Nosing & Sealing Gasket - FN Platform



Z-Series Modularity: Screw Assemblies Attached to Cap-Not Anchored to Substrate

	Z-FN	Z-Lineal	Z-Lineal Classic	RDS
Available Widths				
4-9/16"	•	•	(12/0 ZAI Only)	•
4-7/8"	•	•	•	•
5-5/8"	•	•	(12/0 ZAI Only)	•
5-13/16"	•	•	(12/0 ZAI Only)	•
6-9/16"	•	•	•	•
6-7/8"	•	•	•	•
7-5/8"	Outswing Only	Outswing Only	Outswing Only	•
7-13/16"	•	•	(12/0 ZAI Only)	•
8-5/8"	•	•	•	•
Lengths				
Short Lengths (Up to 3/0)	•	•	•	•
Long Lengths (Up to 6/0)	•	•	•	•
9/0 Lengths	•	•	•	•
12/0 Lengths	•	•	•	•
Cuttability				
	Limited	Unlimited	Unlimited	Limited
Sold With (Caps)				
Z-Articulating Cap (ZAC)	•	•	•	•
Z-Adjustable Inswing Cap (ZAI)	•	•	•	•
Z-Bumper Outswing Cap (ZOB)	•	•	•	•
Z-Adjustable Inswing Oak Cap (ZAIO)	•	•	•	•
Nosing				
Tileback Nosing	•	•	•	•









Technical Bulletin: Fixed Inswing Sill Platform Updates

Endura Products announced updates to our Fixed Inswing Sills. These updates include:

- The elimination of the current Fixed Vinyl Inswing Sill platform (FI);
- Continued availability of our Full Narrow Fixed Inswing Sill platform (ZFI-FN);
- The release of our cost-efficient, full-exposed nose Fixed Inswing Sill platform (ZFI-FEN) - short lengths only
- New availability of our Z-FI sill within the Z-Lineal sill platform (Z-FI-L)



The New Fully-Exposed Nose Fixed Inswing Sill Platform Delivers Enhanced Cost-Effiency in a Streamlined Solution



The Newly-Available Z-Series Fixed Inswing Sill within the Updated Z-Lineal Sill Platform

Fixed Inswing Sill Platform	Previous Platform Availability	New Platform Availability
FI Fixed Vinyl Inswing Platform	•	DISCONTINUED
Z-FI-FN Z-Full Narrow Fixed Inswing Platform	•	•
Z-FI-FEN Z-Fully-Exposed Nose Fixed Inswing Platform	N/A	•
Z-FI-L Z-Lineal Fixed Inswing Platform	N/A	•

Technical Bulletin: Fixed Inswing Sill Platform Updates

Z-Full Narrow (FN) Sill Platform

Features & Benefits:

- Cost-effective, full narrow substrate design
- Fixed Convertible Cap available in Walnut and Black finish.
- Full length caulking surface
- Integrated thermal break

Product Availability:

- <u>Available Widths</u>: 4-9/16", 4-7/8", 5-5/8", 5-13/16", 6-7/8", 7-13/16", 8-5/8"
- Available Lengths: 2/6, 2/8, 2/10, 3/0, 5/0, 5/4, 6/0



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Z-Fully Exposed Nose (FEN) Sill Platform

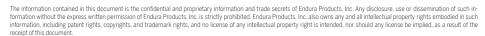
Features & Benefits:

- Cost-effective, exposed-nose design
- Fixed Inswing Cap
- Integrated Thermal Break
- Full length caulking surface
- · Available only in Black finish
- Limited cuttability
- Single doors only

Product Availability:

- Available Widths: 4-9/16", 5-5/8"
- Available Lengths: 2/6, 2/8 (cuttable to 2/6), 3/0







Technical Bulletin: Fixed Inswing Sill Platform Updates

June 6, 2019

Updated Z-Lineal Sill Platform

Features & Benefits:

- **Updated Z-Lineal Substrate:** Replaces current Z-Lineal and Z+ platforms.
- Infinite cuttability
- Full length caulking surface
- Full-width support up to 5-5/8"
- **Fixed Convertible Inswing Cap**
- Integrated thermal break.

Product Availability:

- Fixed Convertible available in Walnut and Black finish.
- **Available Widths:** 4-9/16", 4-7/8", 5-5/8", 5-13/16", 6-7/8", 7-13/16", 8-5/8"
- **Available Lengths:** 2/6, 2/8, 2/10, 3/0, 5/0, 6/0, 9/0



Overview: Updated Fixed Inswing Sill Platforms

Please refer to the following chart for a complete comparison and overview of all Fixed Inswing sill platforms.

	Z-FEN	Z-FN	Updated Z-Lineal
Available Widths			
4-9/16"	•	•	•
4-7/8"	•	•	•
5-5/8"	•	•	•
5-13/16"	•	•	•
6-7/8"	•	•	•
7-5/8"	•	•	•
8-5/8"	•	•	•
Lengths			
Short Lengths (Up to 3/0)	•	•	•
Long Lengths (Up to 6/0)	•	•	•
9/0 Lengths	•	•	•
Cuttability			
	Limited	Limited	Unlimited
Sold With (Caps)			
Black Z-Fixed	•	•	•
Fixed Convertible (Black or Walnut)	•	•	•

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Product Release: Replaceable Deck Sill™ Platform (RDS™)

You provide your customers with quality door units, until they encounter the real world of jobsite damage. Installed door units, and door sills in particular, encounter the harsh conditions of installation and ongoing construction, resulting in dents, paint and stucco damage and sometimes entirely-destroyed sills. Every option to protect the sill with sill covers, tape or any number of other measures has not worked. You've had nothing else to offer - **until now**, with the Replaceable Deck Sill (RDS) from Endura Products.

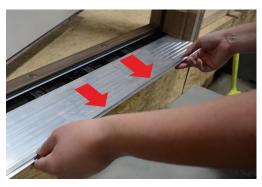
The Replaceable Deck Sill - We've Listened and It's What Your Customers are Asking For.

In repeated focus groups, interviews and jobsite discussions, we've asked builders what they want from a door unit and entry door sill. Their answer, beyond "no leaking," was consistent: "Help me avoid door sill damage or make it easy for me to replace the damaged sill." Whether it's denting, scratching, paint or oxidation, the aluminum sill deck gets damaged and repairs are costly or impossible for the builder to fix without replacing the sill or, in some cases, the entire door unit. Addressing sill deck damage can also lead to a delay in the closing process, costing the builder more with every day that passes.

RDS is the **first and only** sill of its kind that enables replacement of a damaged or discolored sill deck without removing the sill system or the entire door unit. With RDS, you can deliver a solution that solves this costly problem for your customer in just a few simple steps, with tools already on hand, helping to prevent unnecessary delays and costs.



The Real World.



The Solution.

If your customers are paying for costly repairs or replacement of damaged sills, they're paying too much. With RDS, you can provide them with a solution and savings.

RDS Features and Benefits:

- **Removable Sill Deck:** can be removed and replaced in the event that damage to the sill deck should occur.
- Optional Dunnage Deck and Sill Cap: temporary deck and sill cap can be used during construction and replaced with final components at closing.
- Enhanced Finish Flexibility: sill deck and sill cap can be easily replaced should homeowner hardware selections change whether at closing or down the line.
- **Z-Series Modularity:** RDS Sills are interchangeable for easy modifications and retrofitting in the shop and field.
- Available for all Single, French, Sidelite and Patio Applications: including a 5-5/8" screen rail option.
- Available for Inswing and Outswing Systems: supporting Z-Adjustable Inswing, Z-Adjustable Inswing All-Aluminum, Z-Articulating Cap, Z-Articulating Cap All-Aluminum and Z-Outswing Bumper Sills.
- Available Widths: 4-9/16", 5-5/8", 6-9/16" and 7-5/8"



The Replaceable Deck Sill.

Product Release: Replaceable Deck Sill™ Platform (RDS™)

June 6, 2019

Available With Two Time-Saving Options:



The Two Systems

1. Solution One - Replaceable Aluminum Deck

Replace damaged aluminum sill deck with a flawless new one in a matter of minutes and with tools already on hand.

2. Solution Two - Construction Dunnage

Prevent damage with a temporary dunnage sill cap and deck during construction. Then simply install final components.



How RDS Works: Easy as 1-2-3.

Solution One: Replaceable Aluminum Deck



Disengage.

Using a stiff putty knife, bend front edge away from the substrate.



Remove.

Slide the deck out, away from the sill. If needed, remove the sill cap for replacement.



Replace.

Slide the new deck into place and secure with a rubber mallet.

Solution Two: Construction Dunnage



Disengage & Remove.

Remove the dunnage cap and deck. Simply pop off cap and then slide off deck.



Replace.

Install the final cap and slide the pristine aluminum deck into place. Use a rubber mallet to secure the sill deck.



Done

Create a flawless sill in a matter of minutes with tools already on hand.



Product Release: Replaceable Deck Sill™ Platform (RDS™)

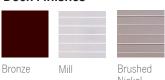
June 6, 2019

Product Offering & Pricing:

RDS is available for immediate purchase in the following options. Dunnage Caps and Decks are available for all widths and lengths.

	RDS PRODUCT OFFERING																							
							Substrate Width																	
					4-9/16"		5-5/8"	6-9/1	16"															
	Configurations	Cuttable To	Available Finishes	Compatible Caps			Deck Profiles																	
					4-9/16"	5-5/8"	5-5/8" w/ SR	6-9/16"	7-5/8"															
	2/6				•	•																		
	2/8	2/6				•		•																
등	3/0	2/10																						
Frence	3/6		Mill, Bronze, Brushed Nickel	ZAI,	•	•		•																
Single & French	5/0	3/6		Brushed Nickel						/ ΔΙ-Δ Δ /-Δ(•	•	•	•										
0,	5/4	3/6,5/0			•	•	•	•																
	6/0	5/8, 5/4, 5/0			•	•	•	•	•															
	1/0-3/0	0/10-3/0			•	•	•	•	•															
iţe	1/2-3/0	1/0-3/0						•																
Sidel	3/0-1/0	3/0-0/10		Mill Burner ZAI,		•																		
snon	3/0-1/2	3/0-1/0	Mill, Bronze, Brushed Nickel	ZAI-AA, Z-AC, Z-AC-AA, ZOB																				
Continuous Sidelite	1/0-3/0-1/0	0/10-3/0- 0/10																2707	2 AO AA, 200	•		•	•	
	1/2-3/0-1/2	1/0-3/0- 1/0			•	•		•	•															
	2/6-2/6		Mill, Bronze, Brushed Nickel	ZAI, ZAI-AA, Z-AC, Z-AC-AA, ZOB	•	•	•	•	•															
Patio	2/8-2/8	2/6-2/6	Mill, Bronze, Brushed Nickel	ZAI, ZAI-AA, Z-AC, Z-AC-AA, ZOB	•	•	•	•	•															
	3/0-3/0	2/10-2/10 2/8-2/8, 2/6-2/6	Mill, Bronze, Brushed Nickel	ZAI, ZAI-AA, Z-AC, Z-AC-AA, ZOB	•	•	•	•	•															

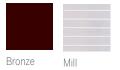
Deck Finishes



Composite Cap Finishes



Aluminum Cap Finishes



Thank you for your ongoing partnership. If you have any questions or concerns regarding any item covered in this release, or would like to discuss this release in greater detail, please do not hesitate to contact your Endura Sales Representative or Territory Sales Manager.

Technical Bulletin: Fixed Outswing All-Aluminum (FOB) Sill Platform Updates

June 6, 2019

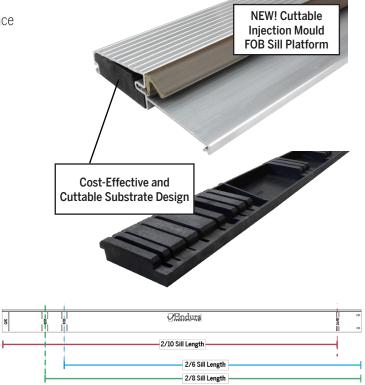
Endura Products released our Cuttable Full Injection Mould Fixed Outswing All-Aluminum Sill Platform. This new sill platform will replace the previous platform utilizing a full wood substrate, which has been discontinued.

Features & Benefits:

- Cuttable design can be cutdown to most common lengths for added flexibility
 - **Single:** 3/0, cuttable to 2/10; 2/8 cuttable to 2/6
 - **Double:** cuttable to 5/4 and 5/0
- Clearly-Marked Cutdown Points to support easy, errorfree cutdowns

Product Availability:

- Full-length caulking surface
- · Available in Mill, Bronze or Brass finish.
- Available Widths: 4-9/16", 5-5/8"
- **Available Lengths:** 2/6, 2/8, 2/10, 3/0, 5/0, 5/4, 6/0



Features Clearly-Marked Cut Points on the Substrate

Fixed Outswing All-Aluminum (FOB) Sill Platform Updates: Overview

As shown in the chart below, the new FOB sill platform will replace the previous Full Wood Fixed Outswing Sill Platform (FOB-F), which has been discontinued. The Wood Block Fixed Outswing Sill Platform (FOB-B) has also been discontinued.

The Block Synthetic Fixed Outswing Sill Platform (FOBS-B), Full Injection Mould Fixed Outswing Sill Platform (non-cuttable - FOBS-F) and Full Lineal Fixed Outswing Sill Platform (FOBS-L-F) have not been changed and will continue to be available for purchase.

Fixed Outswing All-Aluminum Sill Platform	Previous Platform Availability	New Platform Availability
FOB-B: Wood Block Fixed Outswing Sill Platform	•	DISCONTINUED
FOB-F: Full Wood Fixed Outswing Sill Platform	•	DISCONTINUED
FOBS-FC: Full Injection Mould Fixed Outswing Sill Platform(Cuttable)	N/A	•
FOBS-B: Block Synthetic Fixed Outswing Sill Platform	•	•
FOBS-F: Full Injection Mould Fixed Outswing Sill Platform (Non-Cuttable)	•	•
FOBS-L-F: Full Lineal Fixed Outswing Sill Platform	•	•



Overview: Updated Fixed Outswing All-Aluminum Sill Platforms

Please refer to the following chart for a complete comparison and overview of all Z-Series Adjustable, Articulating and Outswing Bumper sill platforms.

	Injection Moulded Non-Cuttable	Injection Moulded Cuttable	Lineal Block	Lineal Full
Available Widths				
4-9/16"	•	•	•	•
5-5/8"	•	•	•	•
Lengths				
Short Lengths (Up to 3/0)	•	•	•	•
Long Lengths (Up to 6/0)	•	•	•	•
9/0 Lengths	•	•	•	•
12/0 Lengths	•	•	•	•
Cuttability				
	N/A	Limited	Limited	Unlimited

Thank you for your ongoing partnership. If you have any questions or concerns regarding any item covered in this release, or would like to discuss these additions in greater detail, please do not hesitate to contact your Endura Sales Representative or Territory Sales Manager.



		Z-FN CUTTABILITY	CHART		
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in)
	2/6		30	29.875	30.313
Single Sills	2/8		32	31.875	32.125
	Cuttable to:	2/6	30	29.875	30.313
	2/10		34	33.110	34.313
	3/0		36	35.875	36.125
Jilla	Cuttable to:	2/10	34	N/A	N/A
		2/8	32	N/A	N/A
		2/6	30	N/A	N/A
	3/6		42	N/A	N/A
	5/0		60	57.938	61.990
				60.188	59.740
	Cuttable to:	3/6	42	N/A	N/A
	5/4		64	61.938	65.990
				64.188	63.740
	Cuttable to:	3/6	42	N/A	N/A
French		5/0	60	N/A	N/A
Sills	6/0		72	69.938	71,749
				72.188	73.990
	Cuttable to:	3/6	42	N/A	N/A
	- Cattable to:	5/0	60	N/A	N/A
		5/4	64	N/A	N/A
		5/8	68	N/A	N/A
	9/0	6, 6	108	N/A	N/A
Lineal	12/0		144	N/A	N/A
	0/10-3/0 or 3/0-0/10		46	46.736	49.715
	1/0-3/0 or 3/0-1/0		48	46,736	49.715
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46	46.736	49.715
SL	1/2-3/0 or 3/0-1/2	0, 10 0, 0 0, 0, 0, 0, 10	50	48.173	51.715
	Cuttable to:	1/0-3/0 or 3/0-1/0	48	48.173	51.715
	Outlable to.	0/10-3/0 or 3/0-0/10	46	N/A	N/A
	0/10-3/0-0/10	0/10/3/00/3/00/10	56	58.974	61,813
	1/0-3/0-1/0		60	61.813	63.250
ь и	Cuttable to:	0/10-3/0-0/10	56	58.974	61.813
Double SL	1/2-3/0-1/2	0/10/3/0/0/10	64	65.813	63.250
	Cuttable to:	1/0-3/0-1/0	60	61.072	67.250
	Cuttable to.	0/10-3/0-0/10	54	01.072 N/A	N/A
	2/6-2/6	0/10-3/0-0/10	60	57.938	61.990
	2/0-2/0		00	60.188	59.740
	2/0.2/0	<u> </u>	64		
	2/8-2/8		64	61.938	65.990
	0.44-61-1	2/6.2/6	60	64.188	63.740
Hinged Patio	Cuttable to:	2/6-2/6	60	60.000	71 740
Tallu	3/0-3/0		72	69.938	71.740
		0.000.000		72.188	73.990
	Cuttable to:	2/10-2/10	68	N/A	N/A
		2/8-2/8	64	N/A	N/A
		2/6-2/6	60	N/A	N/A
Multi-	3X and 4X		108	N/A	N/A
Panel			144	N/A	N/A





	Z-RD	IS (4-9/16") CUTTAB	ILITY CHA	\RT	
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in)
	2/6		30	29.313	32.687
	2/8		32	32.532	36.375
	Cuttable to:	2/6	30	29.313	32.687
	2/10		34	28.188	36.375
Single Sills	3/0		36	28.188	36.375
Jitta	Cuttable to:	2/10	34	28.188	36.375
		2/8	32	28.188	36.375
		2/6	30	28.188	36.375
	3/6		42	41.876	43.812
	5/0		60	59.788	61.425
	Cuttable to:	3/6	42	41.876	43.812
	5/4		64	63.767	65.353
F	Cuttable to:	3/6	42	41.876	43.812
French Sills		5/0	60	59.788	61.425
5.110	6/0		72	71.601	74.374
	Cuttable to:	3/6	42	41.876	43.812
		5/0	60	59.788	61.425
		5/4	64	63.767	65.353
		5/8	68	N/A	N/A
Lineal	9/0		108	(See Multi-	(See Multi-
Lillout	12/0		144	Panel)	Panel)
	0/10-3/0 or 3/0-0/10		46	44.720	51.687
	1/0-3/0 or 3/0-1/0		48	44.720	51.687
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46	44.720	51.687
SL	1/2-3/0 or 3/0-1/2		50	44.720	51.687
	Cuttable to:	1/0-3/0 or 3/0-1/0	48	44.720	51.687
		0/10-3/0 or 3/0-0/10	46	44.720	51.687
	0/10-3/0-0/10		56	N/A	N/A
	1/0-3/0-1/0		60	61.252	67.249
Double	Cuttable to:	0/10-3/0-0/10	56	N/A	N/A
SL	1/2-3/0-1/2		64	61.252	67.249
	Cuttable to:	1/0-3/0-1/0	60	61.252	67.249
_		0/10-3/0-0/10	54	N/A	N/A
	2/6-2/6		60	59.788	61.425
	2/8-2/8		64	63.767	65.353
		0 (0 0 (0	0.0	50 700	04.405
Hinged	Cuttable to:	2/6-2/6	60	59.788	61.425
Patio	3/0-3/0		72	71.601	74.374
	2 11 11 1	2/10/2/12	60	NI 44	N1 /A
	Cuttable to:	2/10-2/10	68	N/A	N/A
		2/8-2/8	64	63.767	65.353
	07. 107	2/6-2/6	60	59.788	61.425
Multi-	3X and 4X		108	101.940	109.375
Panel	I	I	144	138.816	146.000



	Z-RI	DS (5-5/8") CUTTAB	ILITY CHA	RT	
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in)
	2/6		30	29.328	32.687
	2/8		32	29.328	32.687
	Cuttable to:	2/6	30	29.328	32.687
	2/10		34	32.985	36.375
Single Sills	3/0		36	32.985	36.375
Sitts	Cuttable to:	2/10	34	32.985	36.375
		2/8	32	N/A	N/A
		2/6	30	N/A	N/A
	3/6		42	41.814	43.812
	5/0		60	58.788	61.784
	Cuttable to:	3/6	42	41.814	43.812
	5/4		64	63.907	65.755
	Cuttable to:	3/6	42	41.814	43.812
French	- Cattable to:	5/0	60	58.788	61.784
Sills	6/0	3/ 0	72	71.627	74.124
	0,0		/2	71.027	77.127
	Cuttable to:	3/6	42	41.814	43.812
	Cuttable to.	5/0	60	58.788	61.784
		5/4	64	63.907	65.755
		5/8	68	N/A	N/A
	0.40	5/6			
Lineal	9/0		108	(See Multi- Panel)	(See Multi- Panel)
	12/0 0/10-3/0 or 3/0-0/10		144	46.508	50.155
		<u> </u>	46		
	1/0-3/0 or 3/0-1/0	0/10/2/0 2/0 0/10	48	46.508	50.155
Single SL	Cuttable to:	0/10-3/0 or 3/0-0/10	46	46.508	50.155
JL	1/2-3/0 or 3/0-1/2	1,00,00 0,01,0	50	48.857	51.999
	Cuttable to:	1/0-3/0 or 3/0-1/0	48	48.857	51.999
	0.40.040.040	0/10-3/0 or 3/0-0/10	46	N/A	N/A
	0/10-3/0-0/10		56	56.828	63.623
	1/0-3/0-1/0		60	56.828	63.623
Double	Cuttable to:	0/10-3/0-0/10	56	56.828	63.623
SL	1/2-3/0-1/2		64	61.526	67.311
	Cuttable to:	1/0-3/0-1/0	60	61.526	67.311
		0/10-3/0-0/10	54	N/A	N/A
	2/6-2/6		60	58.788	61.784
	2/8-2/8		64	63.907	65.755
Hinged	Cuttable to:	2/6-2/6	60	58.788	61.784
Patio	3/0-3/0		72	71.627	74.124
	Cuttable to:	2/10-2/10	68	N/A	N/A
		2/8-2/8	64	63.907	65.755
		2/6-2/6	60	58.788	61.784
Multi-	3X and 4X		108	109.564	110.311
Panel			144	146.752	147.248



	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (
	2/6		30	29.406	32.187
	2/8		32	29.406	32.187
	Cuttable to:	2/6	30	29.406	32.187
	2/10		34	27.996	36.375
Single	3/0		36	27.996	36.375
Sills	Cuttable to:	2/10	34	27.996	36.375
		2/8	32	27.996	36.375
}		2/6	30	27.996	36.375
	3/6		42	41.976	43.812
	5/0		60	58.891	60.427
				00.002	
	Cuttable to:	3/6	42	41.976	43.812
	5/4	3, 3	64	63.703	65.663
	0,1		01	00.700	00.000
	Cuttable to:	3/6	42	41.976	43.812
French	Outlable to.	5/0	60	58.891	60.427
Sills	6/0	3, 0	72	71.453	74.124
	0,0		72	71.400	74.124
	Cuttable to:	3/6	42	41.976	43.812
	Cuttable to.	5/0	60	58.891	60.427
		5/4	64	63.703	65.663
		5/8	68	67.367	69.477
	9/0	3/0	108		
Lineal	12/0		144	(See Multi- Panel)	(See Mult Panel)
	0/10-3/0 or 3/0-0/10		46	44.451	47.764
	1/0-3/0 or 3/0-1/0		48	45.561	51.812
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46	45.561	51.812
SL	1/2-3/0 or 3/0-1/2		50	48.037	51.812
	Cuttable to:	1/0-3/0 or 3/0-1/0	48	48.037	51.562
		0/10-3/0 or 3/0-0/10	46	N/A	N/A
	0/10-3/0-0/10	0, 10 0, 0 0, 0, 0 0, 10	56	58.906	59.403
	1/0-3/0-1/0		60	58.906	59.403
Double	Cuttable to:	0/10-3/0-0/10	56	N/A	N/A
SL	1/2-3/0-1/2	0, 10 0, 0 0, 10	64	61.250	67.249
	Cuttable to:	1/0-3/0-1/0	60	61.250	67.249
	- Cattable to:	0/10-3/0-0/10	54	N/A	N/A
	2/6-2/6		60	58.891	60.427
				00.002	-
	2/8-2/8		64	63.703	65.663
Hinged	Cuttable to:	2/6-2/6	60	58.891	60.427
Patio	3/0-3/0		72	71.453	74.124
	5, 5 5, 6			72.100	71.223
	Cuttable to:	2/10-2/10	68	67.367	69.477
	Guttable to.	2/8-2/8	64	63.703	65.663
		2/6-2/6	60	58.891	60.427
Mula!	3X and 4X	2/0.2/0	108	103.748	109.625
Multi- Panel	3\triangle 4\triangle		144	140.624	146.250



	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (i
	2/6		30	Unlimited	30.500
	2/8		32	Unlimited	32.313
	Cuttable to:	2/6	30	YES	YES
	2/10	270	34	Unlimited	34.313
Single	3/0		36	Unlimited	36.313
Sills	Cuttable to:	2/10	34	YES	YES
	Cuttable to.	2/10	32	YES	YES
ļ					
	2./5	2/6	30	YES	YES
	3/6		42	YES	YES
	5/0		60	Unlimited	62.000
	Cuttable to:	3/6	42	YES	YES
	5/4		64	Unlimited	66.000
French	Cuttable to:	3/6	42	YES	YES
Sills		5/0	60	YES	YES
	6/0		72	Unlimited	74.000
	Cuttable to:	3/6	42	YES	YES
		5/0	60	YES	YES
		5/4	64	YES	YES
		5/8	68	YES	YES
	9/0		108	Unlimited	113.000
Lineal	12/0		144	Unlimited	154.000
	0/10-3/0 or 3/0-0/10		46	Unlimited	48.000
	1/0-3/0 or 3/0-1/0		48	Unlimited	50.000
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46	YES	YES
SĽ	1/2-3/0 or 3/0-1/2		50	Unlimited	52.000
	Cuttable to:	1/0-3/0 or 3/0-1/0	48	YES	YES
		0/10-3/0 or 3/0-0/10	46	YES	YES
	0/10-3/0-0/10		56	Unlimited	61.500
	1/0-3/0-1/0		60	Unlimited	65.000
Double	Cuttable to:	0/10-3/0-0/10	56	YES	YES
SL	1/2-3/0-1/2		64	Unlimited	69.000
	Cuttable to:	1/0-3/0-1/0	60	YES	YES
		0/10-3/0-0/10	54	YES	YES
	2/6-2/6	0, 10 0, 0 0, 10	60	Unlimited	62.000
			- 55	0	02.000
	2/8-2/8		64	Unlimited	66.000
	2,32,0		<u> </u>	J	30.000
Uinged	Cuttable to:	2/6-2/6	60	YES	YES
Hinged Patio	3/0-3/0	2/02/0	72	Unlimited	74.000
	3/0-3/0		14	Omminicu	74.000
	ا دادا د للله ال	2/10/2/10	60	VEC	VEC
	Cuttable to:	2/10-2/10	68	YES	YES
		2/8-2/8	64	YES	YES
		2/6-2/6	60	YES	YES
Multi-	3X and 4X		108	Unlimited	113.000



		Z-FEN CUTTABILITY	CHART			
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in	
	2/6		30	29.312	30.124	
Single Sills	2/8		32	31.750	32.125	
	Cuttable to:	2/6	30	29.312	30.124	
	2/10		34	N/A	N/A	
	3/0		36	35.813	36.125	
	Cuttable to:	2/10	34	N/A	N/A	
		2/8	32	N/A	N/A	
		2/6	30	N/A	N/A	
	3/6		42	N/A	N/A	
	5/0		60	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
	5/4		64	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
French		5/0	60	N/A	N/A	
Sills	6/0	<i>0,</i> 0	72	N/A	N/A	
	0, 0		,,,	1071	1071	
	Cuttable to:	3/6	42	N/A	N/A	
	Cuttable to.	5/0	60	N/A	N/A	
		5/4	64	N/A	N/A	
		5/8	68	N/A	N/A	
	9/0	3/0	108	IVA	IVA	
Lineal	12/0		144			
	0/10-3/0 or 3/0-0/10		46			
	1/0-3/0 or 3/0-1/0		48			
		0/10-3/0 or 3/0-0/10	46			
Single SL	Cuttable to: 1/2-3/0 or 3/0-1/2	0/10-3/0 or 3/0-0/10				
JL		1/0.2/02/0.1/0	50			
	Cuttable to:	1/0-3/0 or 3/0-1/0	48			
	0.40.0.40.0.40	0/10-3/0 or 3/0-0/10	46			
	0/10-3/0-0/10		56			
	1/0-3/0-1/0		60			
Double	Cuttable to:	0/10-3/0-0/10	56			
SL	1/2-3/0-1/2		64			
	Cuttable to:	1/0-3/0-1/0	60	N	/A	
		0/10-3/0-0/10	54			
	2/6-2/6		60			
	2/8-2/8		64			
Hinged	Cuttable to:	2/6-2/6	60			
Patio	3/0-3/0		72			
	Cuttable to:	2/10-2/10	68			
		2/8-2/8	64			
		2/6-2/6	60			
Multi-	3X and 4X		108			
Panel			144			



	FIXED IN	ITEGRATED CAP CUT	TABILITY	CHART		
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in)	
	2/6		30	29.876	30.312	
Single Sills	2/8		32	31.813	32.125	
	Cuttable to:	2/6	30	29.876	30.312	
	2/10		34	33.698	34.115	
	3/0		36	35.813	36.125	
onto	Cuttable to:	2/10	34	33.698	34.115	
		2/8	32	N/A	N/A	
		2/6	30	N/A	N/A	
	3/6		42	N/A	N/A	
	5/0		60	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
	5/4		64	N/A	N/A	
French	Cuttable to:	3/6	42	N/A	N/A	
Sills		5/0	60	N/A	N/A	
	6/0		72	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
		5/0	60	N/A	N/A	
		5/4	64	N/A	N/A	
		5/8	68	N/A	N/A	
Lineal	9/0		108			
	12/0		144			
	0/10-3/0 or 3/0-0/10		46			
	1/0-3/0 or 3/0-1/0		48			
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46			
SL	1/2-3/0 or 3/0-1/2		50			
	Cuttable to:	1/0-3/0 or 3/0-1/0	48			
		0/10-3/0 or 3/0-0/10	46			
	0/10-3/0-0/10		56			
	1/0-3/0-1/0		60			
Double	Cuttable to:	0/10-3/0-0/10	56			
SL	1/2-3/0-1/2	1/2 2/2 1/2	64			
	Cuttable to:	1/0-3/0-1/0	60	N.	/A	
	0 /0 0 /0	0/10-3/0-0/10	54			
	2/6-2/6		60			
	2 (2 2 (2		6.4			
	2/8-2/8	<u> </u>	64			
	0.44-61-1	2/6 2/6	60			
Hinged Patio	Cuttable to:	2/6-2/6	60			
radu	3/0-3/0		72			
	0.44-61-1	2/10/2/10	60			
	Cuttable to:	2/10-2/10	68			
	<u> </u>	2/8-2/8	64			
	27 147	2/6-2/6	60			
Multi- Panel	3X and 4X		108			
railet			144			



	Starting Co	Nominal	Min Length (in)	Max Length (in		
	2/6		30			
Single Sills	2/8		32	30.125	32.250	
	Cuttable to:	2/6	30			
	2/10		34	N/A	N/A	
	3/0		36	35.700	36.250	
	Cuttable to:	2/10	34	N/A	N/A	
		2/8	32	N/A	N/A	
		2/6	30	N/A	N/A	
	3/6		42	N/A	N/A	
	5/0		60	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
	5/4		64	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
French		5/0	60	N/A	N/A	
Sills	6/0		72	N/A	N/A	
	Cuttable to:	3/6	42	N/A	N/A	
		5/0	60	N/A	N/A	
		5/4	64	N/A	N/A	
-		5/8	68	N/A	N/A	
	9/0		108			
Lineal	12/0		144			
	0/10-3/0 or 3/0-0/10		46			
	1/0-3/0 or 3/0-1/0		48			
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46			
SL	1/2-3/0 or 3/0-1/2		50			
	Cuttable to:	1/0-3/0 or 3/0-1/0	48			
		0/10-3/0 or 3/0-0/10	46			
	0/10-3/0-0/10		56			
	1/0-3/0-1/0		60			
Double	Cuttable to:	0/10-3/0-0/10	56			
SL	1/2-3/0-1/2		64			
	Cuttable to:	1/0-3/0-1/0	60			
		0/10-3/0-0/10	54	N	/A	
	2/6-2/6		60			
	2/8-2/8		64			
			· ·			
Hinged	Cuttable to:	2/6-2/6	60			
Hingeo Patio	3/0-3/0		72			
	5. 2 5. 0		_			
	Cuttable to:	2/10-2/10	68			
	Outdoin to.	2/8-2/8	64			
		2/6-2/6	60			
Multi-	3X and 4X	2, 5 2, 6	108			
Multi- Panel	3/\tan\d 4/\		144			



	1	CTION MOULD SYNT	Nominal			Notes
	Starting Co	ntiguration		Min Length (in)	Max Length (in)	Notes
Single Sills	2/6		30	28.579	30.375	
	2/8	0.15	32	30.548	32.375	
	Cuttable to:	2/6	30	28.579	30.375	
	2/10		34	32.374	34.125	
	3/0	0.410	36	34.586	36.190	
	Cuttable to:	2/10	34	32.374	34.125	
		2/8	32	30.548	32.375	
	210	2/6	30	28.579	30.375	
	3/6		42	50.000	22.225	
	5/0		60	58.923	60.025	
		2.12				
	Cuttable to:	3/6	42	41.673	43.412	
	5/4		64	62.923	64.025	
French	Cuttable to:	3/6	42	41.673	43.412	
Sills		5/0	60	58.923	60.025	
	6/0		72	70.898	74.130	
	Cuttable to:	3/6	42	41.673	43.412	
		5/0	60	58.923	60.025	
		5/4	64	62.923	64.025	
		5/8	68	N/A	N/A	
Lineal	9/0		108			
	12/0		144			
	0/10-3/0 or 3/0-0/10		46			
	1/0-3/0 or 3/0-1/0		48			
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46			
SL	1/2-3/0 or 3/0-1/2		50			
	Cuttable to:	1/0-3/0 or 3/0-1/0	48			
		0/10-3/0 or 3/0-0/10	46			
	0/10-3/0-0/10		56			
	1/0-3/0-1/0		60			
Double	Cuttable to:	0/10-3/0-0/10	56			
SL	1/2-3/0-1/2		64			Length indicates act
	Cuttable to:	1/0-3/0-1/0	60	N	/A	openings only. This
		0/10-3/0-0/10	54			product doesn't inclu a haunch and note
	2/6-2/6		60			
	2/8-2/8		64			
Hinged	Cuttable to:	2/6-2/6	60			
Patio	3/0-3/0		72			
	Cuttable to:	2/10-2/10	68			
		2/8-2/8	64			
		2/6-2/6	60			
Multi-	3X and 4X		108			
Panel			144	1		ı



Starting Col 2/6 2/8	nfiguration	Nominal	Min Length (in)	Max Length (in)	
			Mill Leligtii (III)	max Length (III)	Notes
2/8		30	Unlimited	30.500	
		32	Unlimited	32.313	
Cuttable to:	2/6	30	YES	YES	
2/10		34	Unlimited	34.313	
3/0		36	Unlimited	36.313	
Cuttable to:	2/10	34	YES	YES	
	2/8	32	YES	YES	
	2/6	30	YES	YES	
3/6		42	YES	YES	
5/0		60	Unlimited	62.000	
Cuttable to:	3/6	42	YES	YES	
5/4		64	Unlimited	66.000	
Cuttable to:	3/6	42	YES	YES	
	5/0	60	YES	YES	
6/0		72	Unlimited	74.000	
Cuttable to:	3/6	42	YES	YES	
	5/0	60	YES	YES	
	5/4	64	YES	YES	
	5/8	68			
9/0					
12/0		144	-		
0/10-3/0 or 3/0-0/10		46			
Cuttable to:	0/10-3/0 or 3/0-0/10	46	İ		
1/2-3/0 or 3/0-1/2		50			
Cuttable to:	1/0-3/0 or 3/0-1/0	48			
			1		
0/10-3/0-0/10		56	1		
	0/10-3/0-0/10				
	1/0-3/0-1/0				Length indicates act
			N.	/A	openings only. This product doesn't include
2/6-2/6					a haunch and notch
			1		
2/8-2/8		64	1		
2.52,6					
Cuttable to:	2/6-2/6	60			
5. 5 5, 6			-		
Cuttable to:	2/10-2/10	68			
Outtable to.					
3X and 4X	2/0 2/0				
5/\ and 4/\					
	5/0 Cuttable to: 5/4 Cuttable to: 6/0 Cuttable to: 9/0 12/0 0/10-3/0 or 3/0-0/10 1/0-3/0 or 3/0-1/0 Cuttable to:	3/6 5/0 Cuttable to: 3/6 5/4 Cuttable to: 3/6 6/0 Cuttable to: 3/6 6/0 Cuttable to: 3/6 5/0 6/0 Cuttable to: 3/6 5/0 5/4 5/8 9/0 12/0 0/10-3/0 or 3/0-0/10 1/0-3/0 or 3/0-1/0 Cuttable to: 1/0-3/0 or 3/0-0/10 1/2-3/0 or 3/0-1/2 Cuttable to: 1/0-3/0 or 3/0-0/10 1/2-3/0 or 3/0-1/2 Cuttable to: 1/0-3/0 or 3/0-0/10 0/10-3/0-1/0 0/10-3/0-1/0 Cuttable to: 0/10-3/0-0/10 1/2-3/0-1/2 Cuttable to: 1/0-3/0-0/10 2/6-2/6 2/8-2/8 Cuttable to: 2/6-2/6 3/0-3/0 Cuttable to: 2/6-2/6	3/6 42 5/0 60 Cuttable to: 3/6 42 5/4 64 Cuttable to: 3/6 42 5/0 60 Cuttable to: 3/6 42 5/0 60 6/0 72 Cuttable to: 3/6 42 5/0 60 6/0 72 Cuttable to: 3/6 42 5/0 60 5/4 64 5/8 68 9/0 108 12/0 144 0/10-3/0 or 3/0-0/10 46 1/0-3/0 or 3/0-1/0 48 Cuttable to: 0/10-3/0 or 3/0-0/10 46 1/2-3/0 or 3/0-1/2 50 Cuttable to: 1/0-3/0 or 3/0-0/10 46 0/10-3/0-0/10 56 1/0-3/0-1/2 60 Cuttable to: 0/10-3/0-0/10 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-0/10 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-0/10 54 Cuttable to: 1/0-3/0-0/10 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-0/10 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-0/10 56 Cuttable to: 1/0-3/0-0/10 54 Cuttable to: 1/0-3/0-0/10 54 Cuttable to: 2/6-2/6 60 2/6 30 YES	2/6 30 YES YES 3/6 42 YES YES 5/0 60 Unlimited 62,000 Cuttable to: 3/6 42 YES YES 5/4 64 Unlimited 66,000 Cuttable to: 3/6 42 YES YES 5/0 60 YES YES 6/0 72 Unlimited 74,000 Cuttable to: 3/6 42 YES YES 6/0 72 Unlimited 74,000 Cuttable to: 3/6 42 YES YES 5/0 60 YES YES 5/0 60 YES YES 5/0 60 YES YES 5/4 64 YES YES 5/8 68 YES YES 9/0 108 12/0 144 0/10-3/0 or 3/0-0/10 46 1/0-3/0 or 3/0-1/0 48 Cuttable to: 1/0-3/0 or 3/0-0/10 46 1/2-3/0 or 3/0-1/0 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-1/10 56 1/2-3/0-1/2 64 Cuttable to: 1/0-3/0-1/10 54 Cuttable to: 2/6-2/6 60 3/0-3/0 72 Cuttable to: 2/10-2/10 68 2/8-2/8 64 2/6-2/6 60 3X and 4X 108	



		FOB SYNTHETIC B	LOCK CU	TTABILITY CHA	RT	
	Starting Co	nfiguration	Nominal	Min Length (in)	Max Length (in)	Notes
	2/6		30	26.750	30.250	
Single Sills	2/8		32	28.750	32.250	
	Cuttable to:	2/6	30	28.750	32.250	
	2/10		34	30.750	34.250	
	3/0		36	32.750	36.250	
JIIIS	Cuttable to:	2/10	34	32.750	36.250	
		2/8	32	N/A	N/A	
		2/6	30	N/A	N/A	
	3/6		42	38.750	42.250	
	5/0		60	56.750	60.250	
	Cuttable to:	3/6	42	N/A	N/A	
	5/4		64	60.750	64.250	
	Cuttable to:	3/6	42	N/A	N/A	
French Sills		5/0	60	60.750	64.250	
JIIIS	6/0		72	68.750	72.250	
	Cuttable to:	3/6	42	N/A	N/A	
		5/0	60	N/A	N/A	
		5/4	64	N/A	N/A	
		5/8	68	68.750	72.250	
Lineal	9/0		108			
Lineat	12/0		144			
	0/10-3/0 or 3/0-0/10		46			
	1/0-3/0 or 3/0-1/0		48			
Single	Cuttable to:	0/10-3/0 or 3/0-0/10	46			
SL	1/2-3/0 or 3/0-1/2		50			
	Cuttable to:	1/0-3/0 or 3/0-1/0	48			
		0/10-3/0 or 3/0-0/10	46			
	0/10-3/0-0/10		56			
	1/0-3/0-1/0		60			Length indicates activ
Double	Cuttable to:	0/10-3/0-0/10	56			
SL	1/2-3/0-1/2		64			
	Cuttable to:	1/0-3/0-1/0	60		/A	openings only. This product doesn't include a haunch and notch.
		0/10-3/0-0/10	54		/A	
	2/6-2/6		60			a naunch and noton.
	2/8-2/8		64			
Hinged	Cuttable to:	2/6-2/6	60			
Patio	3/0-3/0		72			
	Cuttable to:	2/10-2/10	68			
		2/8-2/8	64			
		2/6-2/6	60			
Multi-	3X and 4X		108			
Panel			144			

