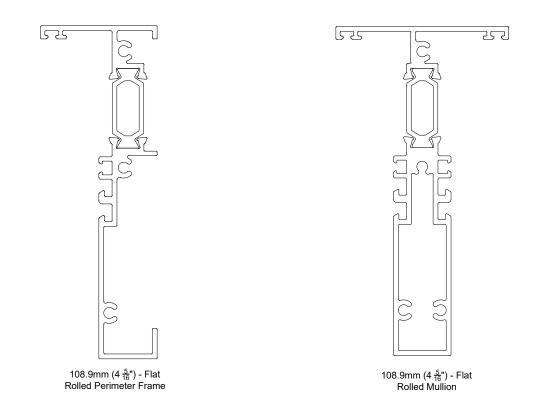
185.2.20.0.0 SECTION (FLAT)

#### **Double Glazed**



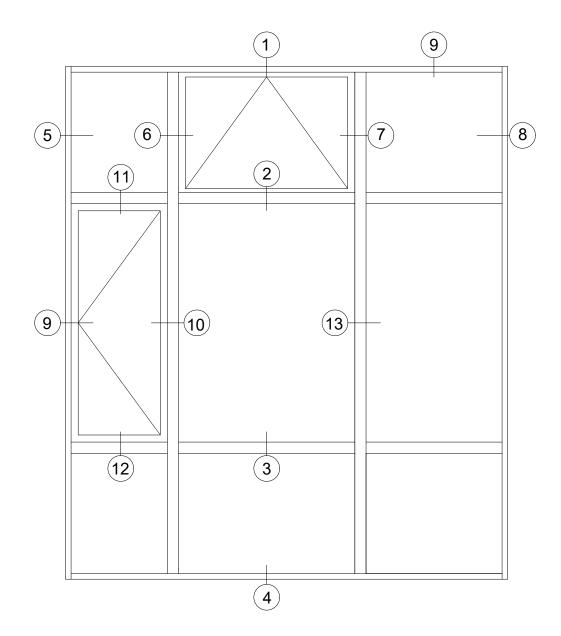
1850 Double Glazed series with flat exterior framing is the basic among all window section profiles. This profile series provides better exterior view and lighting reception due to its thin framing. It also provide unlimited option to any custom size operable windows and/or doors.



Manufacturer of High-performance Aluminum SystemsAddress: 6 Denison St., Markham, Ontario, L3R 1B6Tel: 1-800-678-1118www.enerfrees.cominfo@enerfrees.com

#### 185.2.20.0 SECTION (FLAT)

#### **Double Glazed**

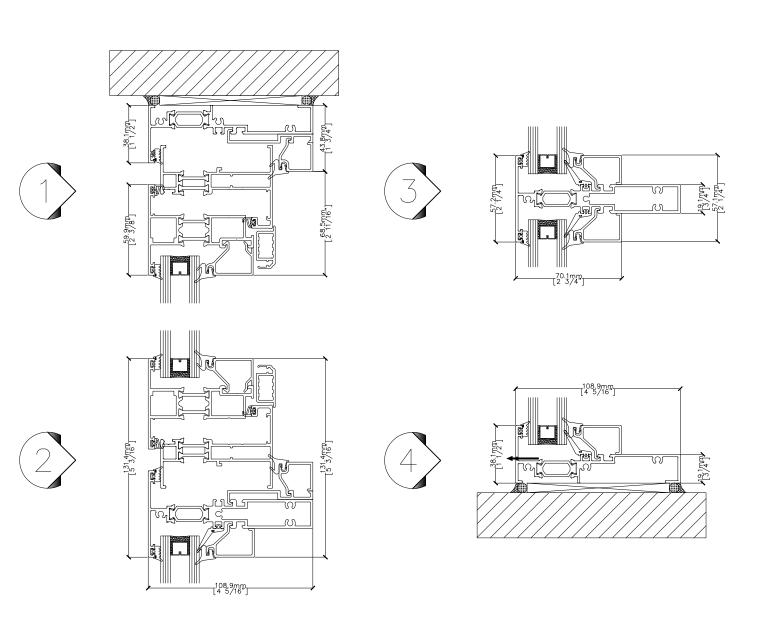




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185.2.20.1 SECTION (FLAT)

### **Double Glazed**

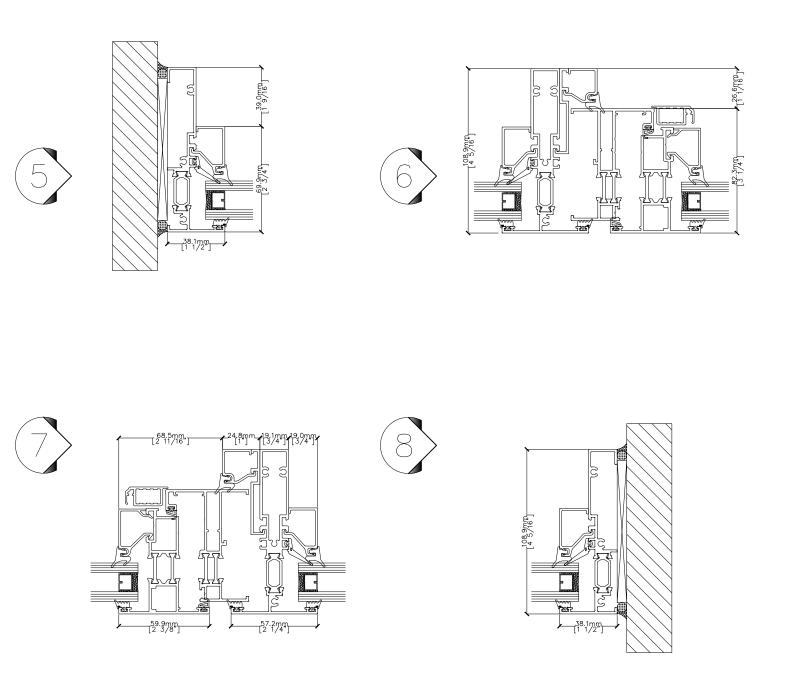




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185.2.20.2 SECTION (FLAT)

### **Double Glazed**



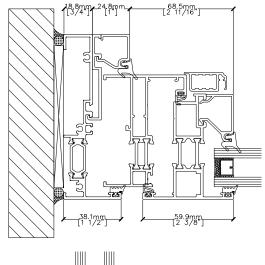


Manufacturer of High-performance Aluminum SystemsAddress: 6 Denison St., Markham, Ontario, L3R 1B6Tel: 1-800-678-1118www.enerfrees.cominfo@enerfrees.com

#### 185.2.20.3 SECTION (FLAT)



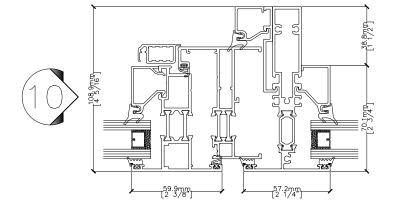




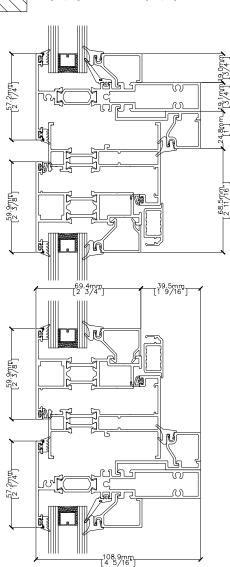
9.9mg

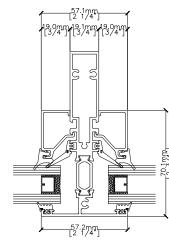
19.1mm

24,8mm







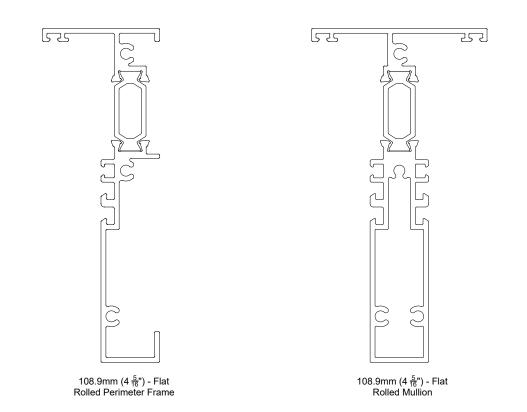




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#### 185.3.20.0.0 SECTION (FLAT)

### **Triple Glazed**



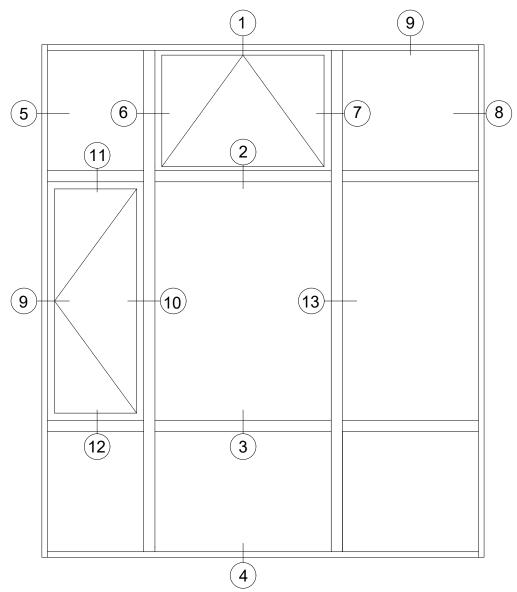
1850 Triple Glazed series with flat exterior framing is the basic among all window section profiles. This profile series provides better exterior view and lighting reception due to its thin framing. It also provide unlimited option to any custom size operable windows and/or doors.



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#### 185.3.20.0 SECTION (FLAT)

**Triple Glazed** 

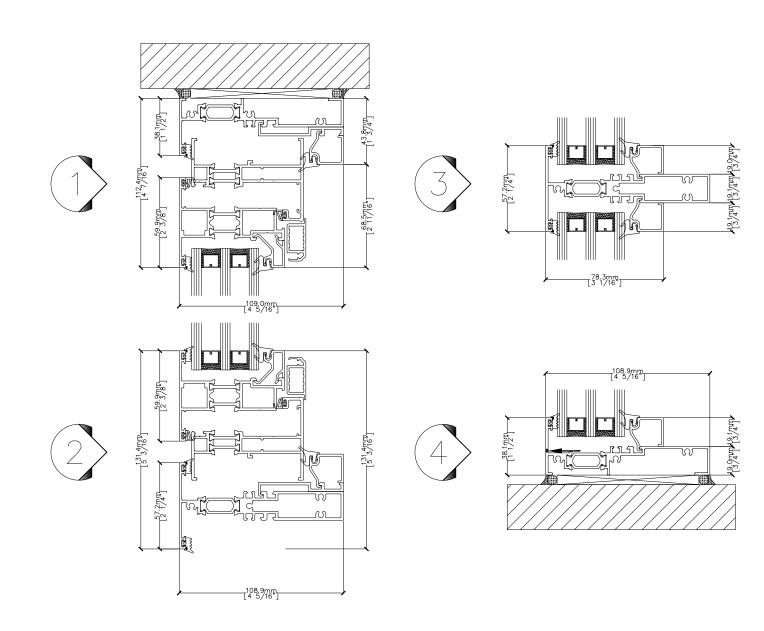




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185.3.20.1 SECTION (FLAT)

### **Triple Glazed**

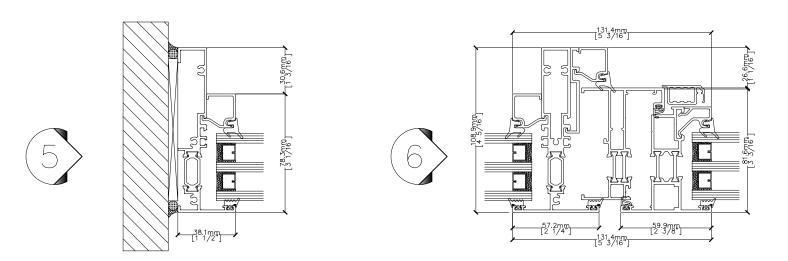


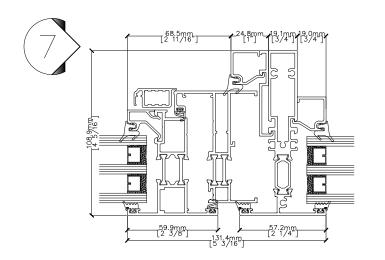


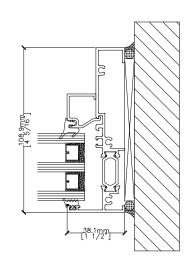
Manufacturer of High-performance Aluminum SystemsAddress: 6 Denison St., Markham, Ontario, L3R 1B6Tel: 1-800-678-1118905-604-5118www.enerfrees.cominfo@enerfrees.com

185.3.20.2 SECTION (FLAT)

### **Triple Glazed**



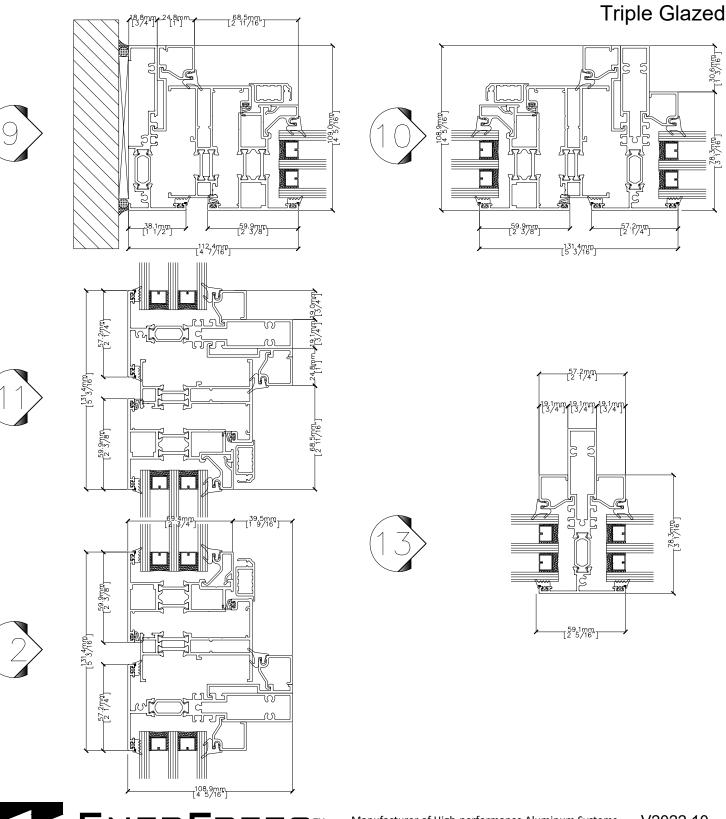






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#### 185.3.20.3 SECTION (FLAT)



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A = 20 PSF

$$C = 30 PSF$$

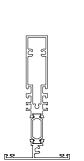
$$D = 35 PSF$$

$$E = 40 PSF$$

$$F = 50 PSF$$

$$G = 60 PSF$$

$$Ix = 2.0789 \text{ in}^4$$
  
Sx = 0.8137 in<sup>3</sup>

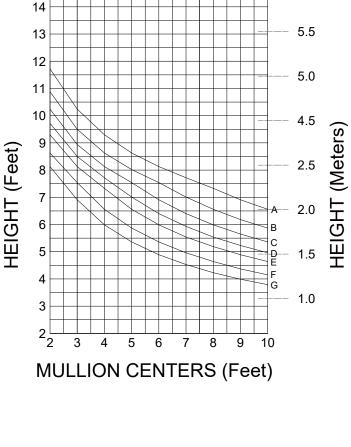


185015 108.9mm (4  $\frac{1}{4}$ ") Mullion (Vertical/Horizontal)



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V2022.10



MULLION CENTERS (Meters)

2.0

2.5

3.0

4

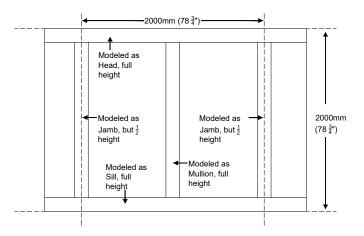
6.0

1.5

1.0

15

- 1. The overall product U-factors are determined in accordance with NFRC 100-2010.
- 2. The Center-of-Glazing U-factors are determined by the insulated glass unit (IGU) and provided for by glass manufacturer/supplier.
- The simulated specimen size is based on NFRC 100-2010 Table 4-3 Product Type Window Wall, which is 2000mm (78 <sup>3</sup>/<sub>4</sub>") width by 2000mm (78 <sup>3</sup>/<sub>4</sub>") and height (full height of head and sill, <sup>1</sup>/<sub>2</sub> width of the vertical mullion). See below:



#### DOUBLE GLAZED

METRIC UNIT

Center-or-Glazing	Non-metal Spacer	Aluminum Spacer
	Product U-factor	Product U-factor
	(W/m2-K)	(W/m2-K)
1.00	1.35	1.61
1.10	1.44	1.69
1.20	1.52	1.77
1.30	1.61	1.86
1.40	1.70	1.94
1.50	1.78	2.02
1.60	1.87	2.11
1.70	1.96	2.19
1.80	2.04	2.27
1.90	2.13	2.35
2.00	2.21	2.44
2.10	2.30	2.52
2.20	2.39	2.60
2.30	2.47	2.69
2.40	2.56	2.77
2.50	2.64	2.85

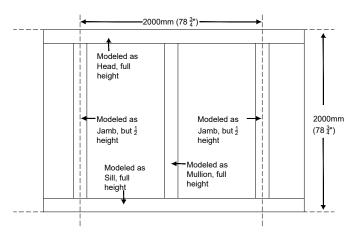
#### IMPERIAL UNIT

Center-of-Glazing U-factor (Btu/h-ft2-F)	Non-metal Spacer	Aluminum Spacer
	Product U-factor (Btu/h-ft2-F)	Product U-factor (Btu/h-ft2-F)
0.18	0.24	0.29
0.20	0.26	0.30
0.22	0.28	0.32
0.24	0.29	0.34
0.26	0.31	0.35
0.28	0.33	0.37
0.30	0.34	0.39
0.32	0.36	0.40
0.34	0.38	0.42
0.36	0.40	0.44
0.38	0.41	0.45
0.40	0.43	0.47
0.42	0.45	0.49
0.44	0.47	0.50



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- 1. The overall product U-factors are determined in according with NFRC 100-2010.
- 2. The Center-of-Glazing U-factors are determined by the insulated glass unit (IGU) and should be obtained from the glass supplier.
- 3. The simulated specimen size is based on NFRC 100-2010 Table 4-3 Product Type Window Wall, which is 2000mm (78 <sup>3</sup>/<sub>4</sub>") width by 2000mm (78 <sup>3</sup>/<sub>4</sub>") height (full height of head and sill, <sup>1</sup>/<sub>2</sub> width of the vertical mullion). See below:



#### TRIPLE GLAZED

METRIC UNIT

Center-of-Glazing U-factor (W/m2-K)	Non-metal Spacer	Aluminum Spacer
	Product	Product
	U-factor (W/m2-K)	U-factor (W/m2-K)
0.50	0.86	1.12
0.60	0.95	1.20
0.70	1.03	1.29
0.80	1.12	1.37
0.90	1.21	1.46
1.00	1.30	1.54
1.10	1.39	1.63
1.20	1.47	1.71
1.30	1.56	1.80
1.40	1.65	1.88
1.50	1.74	1.97
1.60	1.83	2.05
1.70	1.92	2.14

#### IMPERIAL UNIT

Center-of-Glazing U-factor (Btu/h-ft2-F)	Non-metal Spacer	Aluminum Spacer
	Product	Product
	U-factor (Btu/h-ft2-F)	U-factor (Btu/h-ft2-F)
0.10	0.16	0.21
0.12	0.18	0.22
0.14	0.20	0.24
0.16	0.21	0.26
0.18	0.23	0.27
0.20	0.25	0.29
0.22	0.27	0.31
0.24	0.29	0.33
0.26	0.30	0.34
0.28	0.32	0.36
0.30	0.34	0.38



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