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, Project

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- 
- 1.
  - 2.
  - 3.

- 3.1
- 3.2
- 3.3 (Print) -
- 3.4
- 3.5
- 3.6
- 3.7

**(Weatherproofing)**

- 4.1
- 4.2
- 4.3
- 4.4
5.
  - 5.1 (Conventional Moving Weatherseal)
  - 5.2 (Moving Corner Joints)
  - 5.3 (Remedial Joints)
  - 5.4 (Splice Joints)
  - 5.5 Cap bead (Cap Bead Glazing Joints)
  - 5.6 (Butt)
  - 5.7 (Horizontal to Vertical Joints)
  - 5.8 (Dual-Sealed Moving Weatherseal)
  - 5.9 : 가 (Insufficient Aluminum Extrusion)
  - 5.10 (Granite Kerf Detail)
6.
  - 6.1
  - 6.2
  - 6.3 (Bite)
  - 6.4 (Windload)
  - 6.5 (Dead load)
  - 6.6 (Glueline thickness)
  - 6.7
    - a) 2-Sided Structural Glazing
    - b) 4-Sided Structural Glazing
  - 6.8
    - a) (Stick System)
    - b) (Unitized System)
  - 6.9
    - a) (Site Glazing)
    - b) (Factory or Shop Glazing)
  - 6.10

- 
- 7.
    - 7.1
    - 7.2
  - 8.
    - 8.1
    - 8.2
    - 8.3
    - 8.4 - (Backer rod)
    - 8.5
    - 8.6
  - 9.
    - 9.1
    - 9.2
    - 9.3
    - 9.4
  - 10.
    - 10.1
    - 10.2
    - 10.3
  - 11.
    - 11.1
    - 11.2 /
    - 11.3
    - 11.4
    - 11.5
  - 12.
    - 12.1 (Single component)
    - 12.2 (Multi-component)
    - 12.3
    - 12.4
  - 13. **(Documentation)**
    - 13.1
    - 13.2
    - 13.3 (Dow Corning Project Checklist Submission Form)
    - 13.4 (Dow Corning Request for Testing Submission Form)
    - 13.5 (Dow Corning Warranty Request Form)
    - 13.6 - 1
    - 13.7 - 2
    - 13.8
    - 13.9 (Deglazing)
  - 14.
  - 15.
  - 16. **(Trouble shooting)**
  - 17.

# 1.

---

가 가 ( )가

- 가
- 가
- 가

30

가

가

가 a) 가 가

1) 6mm 가

2) 12mm 6mm 가 가

3) 가 2:1 b)

가 2

c)

■ 가

■ 가

d) (Deglazing)

■ 가

e)

■ 가

## 2.

---

가 , 가 30 가 , 가  
가  
2  
20 가  
(Cracking), (Crazing), 가  
가 가  
가  
-40 80 /  
가 10%  
100  
가  
가  
( / )  
가 가

### 3. Project Review( )

#### 3.1

1. 가 가
2. , 가
3. 가

4.

1

$$(Bite) = \frac{0.5 \times \times (kPa)}{(138 kPa)}$$

, 1500(mm) × 2,000(mm)  
 2.35kPa , 12.8mm  
 가 13mm

5.

6.

7. 가

8. 가 (Deadload)  
 700kg/m<sup>2</sup>

#### 3.2

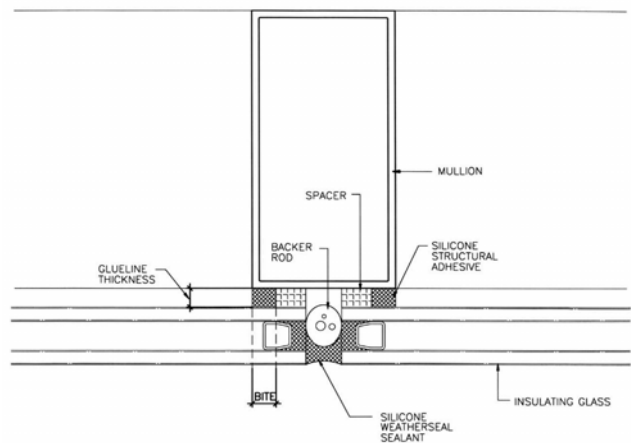
: 가

#### 3.3

section

structural detail

1. 6mm 가
2. Glueline thickness 6mm 가
3. Glueline thickness  
 Glueline thickness  
 1:1 3:1



### 3. Project Review( )

가 , 6  
가 991

ASTM C1193-91,  
SWRI Sealant, The professionals Guide  
AAMA Volume 6, 'Joint Sealants in Aluminum  
Curtainwalls'

#### 3.7

가

가

#### 3.4

가

'ASTM C794 Peel adhesion test'

( , , )

가

4 가

#### 3.5

(가

가

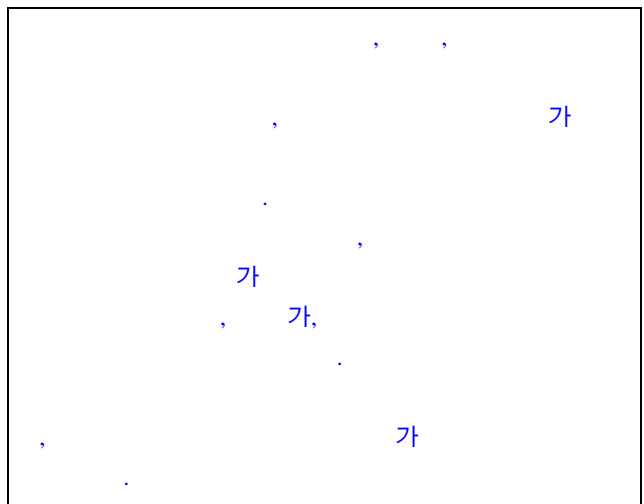
ASTM C1087

4 가

#### 3.6

가 , ,  
가

ASTM C1248



4.

4.1

(Liveload),

(Liveload)

가

가

(mm/mm/ )X10<sup>-6</sup>

	8.8
	23.8
	5.0 ~ 11.0
	8.7 ~ 22.1
	9.0 ~ 12.6
	10.4 ~ 17.3
	50.0 ~ 74.0
	68.4

가

가

4.2

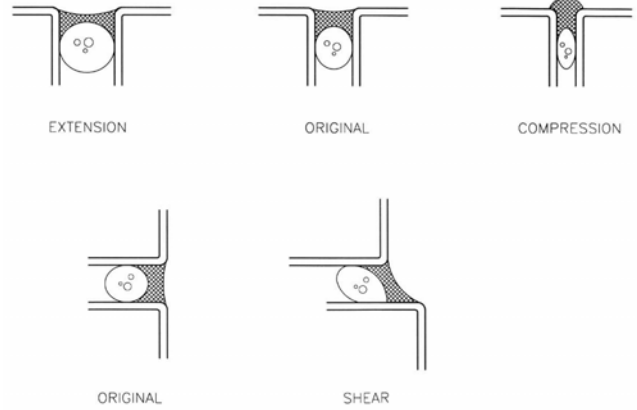
가

a) (Working Joint)

가

(Mullion)

- (Control)
- (Expansion)
- (Lap)
- (Butt)
- (Stack)



a) (Fixed Joint)

10%

4.3

■ 6mm

■ 6mm 가

: 가

가

가  
가

4.

■ 1 가 
$$= \frac{100(M_T + M_L)}{X} + T$$

■ , , 3 X = (%)  
 M<sub>T</sub> =  
 가 M<sub>L</sub> = (Liveload)  
 25% T =

가 가 (Liveload) 8mm,  
 가 6mm, 6mm,  
 가 25% ,

■ 가 , 
$$= \frac{100(8+6)}{25} + 6$$
  

$$= 62\text{mm}$$

■ 2 , 4.5  
 7 가 1

4.4

■ 가 6mm

■ 3 가

. 3 a) 가  
 b) 가

, ±15%

c) 6mm

가

■ 25mm ,

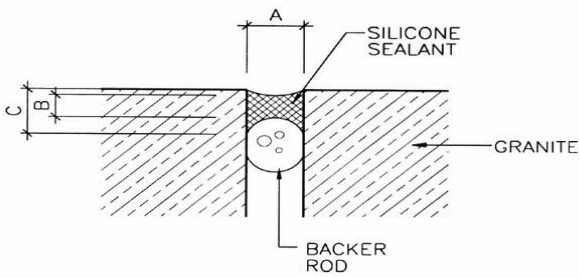
9~12mm

12mm

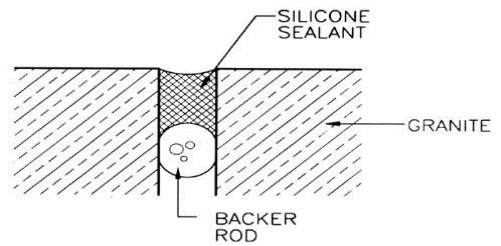
5.

5.1 (Conventional Moving Weatherseal)

GOOD JOINT DESIGN



POOR JOINT DESIGN

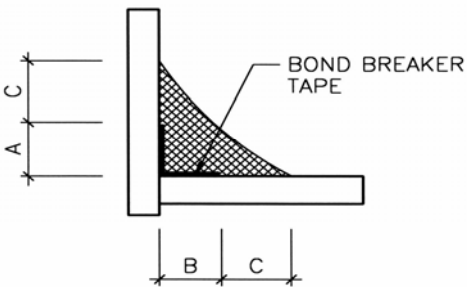


1. A C 6mm .
2. A B 2:1 .
3. .
4. B 12mm 가 .
5. A 100mm 가 .

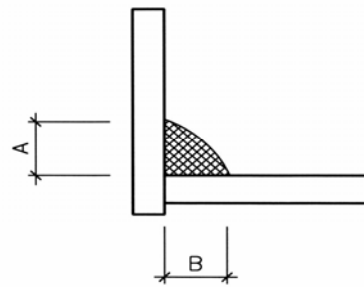
1. 가
2. .

5.2 (Moving Corner Joints)

GOOD JOINT DESIGN



POOR JOINT DESIGN



1. A B 6mm .
2. .
3. .
4. C 6mm .

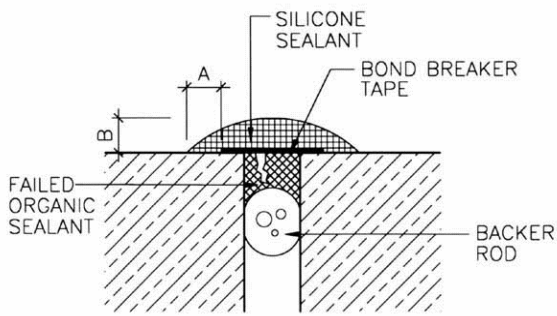
1. A 1.BA B 6mm 가 6mm .
2. 가 .
3. 가 .

3.

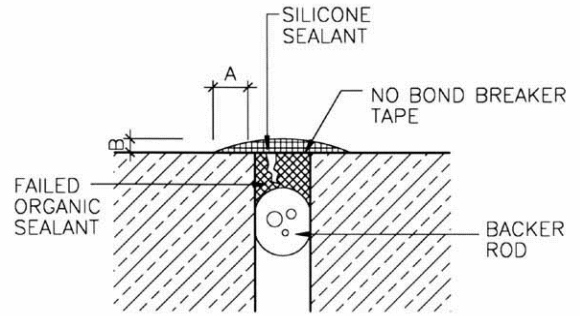
5.

5.3 (Remedial Joints)

GOOD JOINT DESIGN



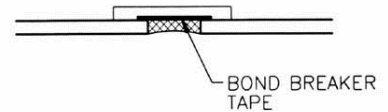
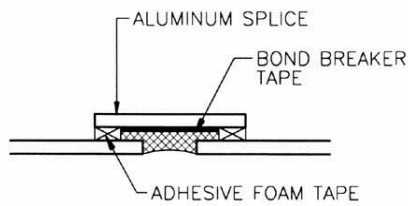
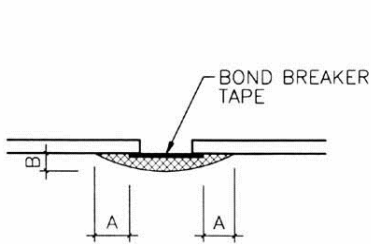
POOR JOINT DESIGN



- 1. A                    6mm
- 2. B                    3mm~6mm
- 3.

- 1. A A                가 6mm                가
- 2. B                가 3mm                가                가
- 3.

5.4 (Splice Joints)



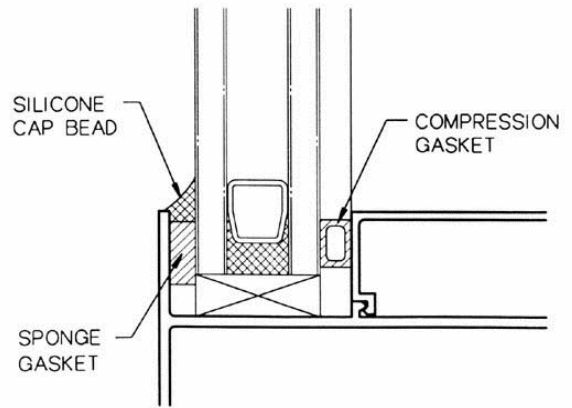
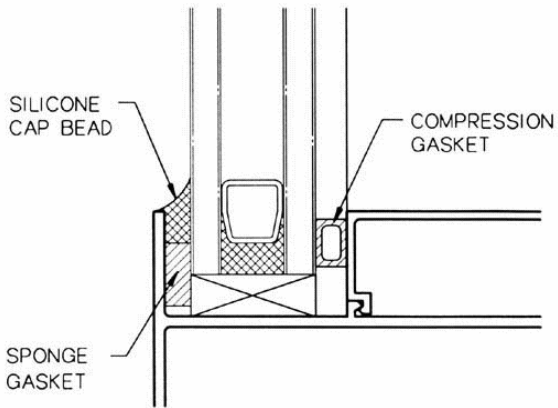
- 1. A                    6mm
- 2. B                    3 ~ 6mm
- 3.
- 4.                    6mm

- 1. 1.                가 3mm    3mm
- 2.                가                가
- 3.
- 4.                가                가

5.5 Cap Bead

GOOD JOINT DESIGN

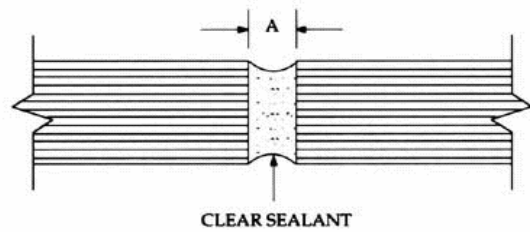
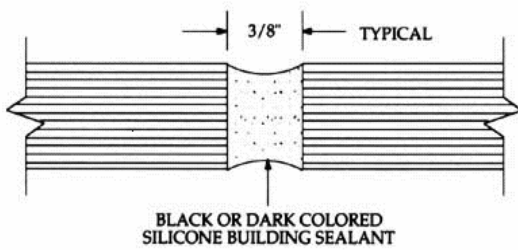
POOR JOINT DESIGN



1. 6mm
2. 가
3. 가
- 가

1. 가
2. 가

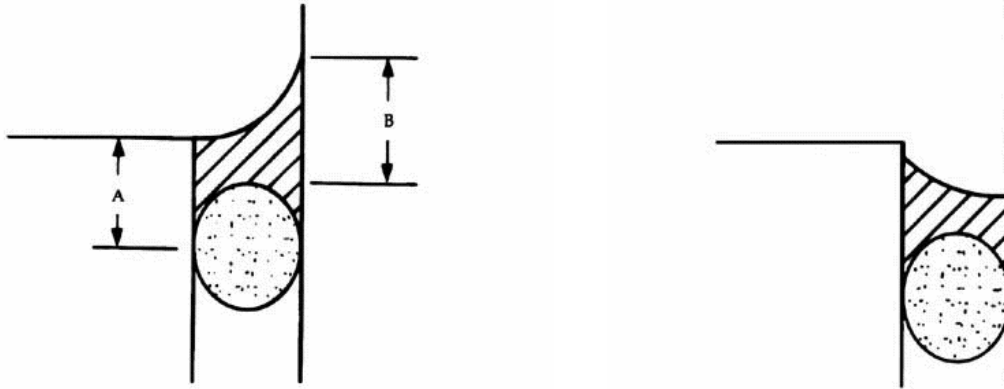
5.6 (Butt Joint Glazing)



1. 6mm
2. 6mm.
3. 가
4. 가

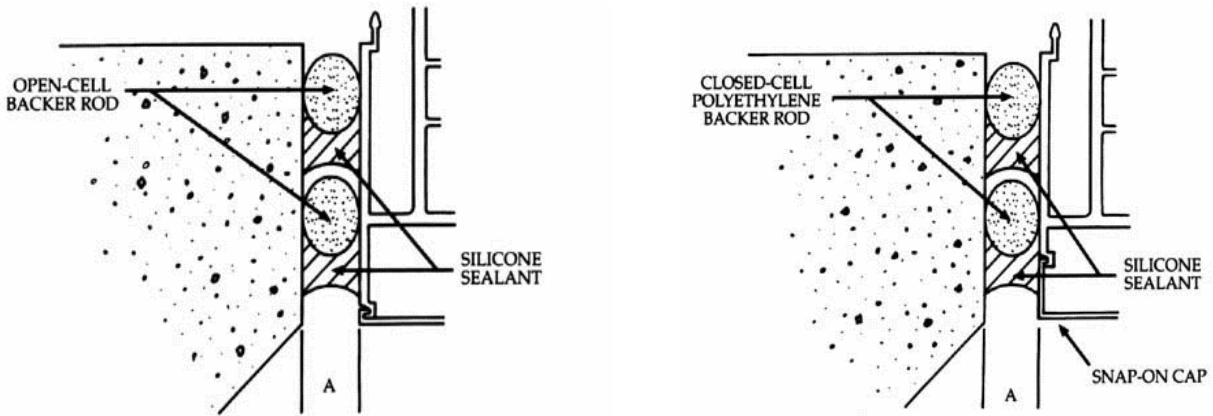
1. A 가 6mm
2. 가
- 가

5.7 , (Horizontal to Vertical Joints)



- 1. A B 6mm 1.
- 2. 가 2.

5.8 2 (Dual-sealed Moving Weatherseal)

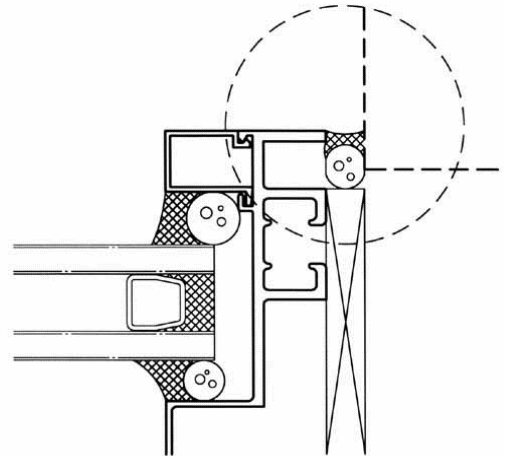
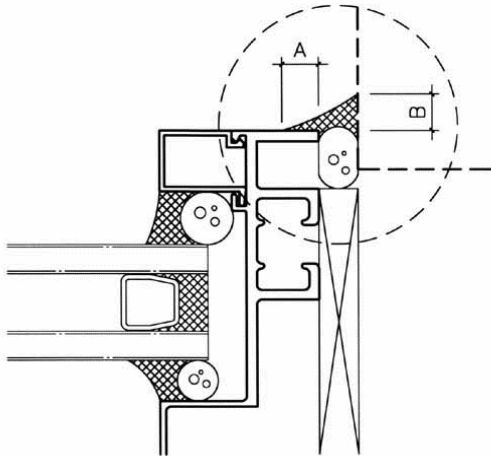


- 1. 2 1. 가
- 2. 2. A 가 20mm
- 3. 가 3. (Snap-on-cap)
- 4. 20mm A 1. 가

5.9 (Window Perimeter Joints) :

가

(Insufficient Aluminum Extrusion)

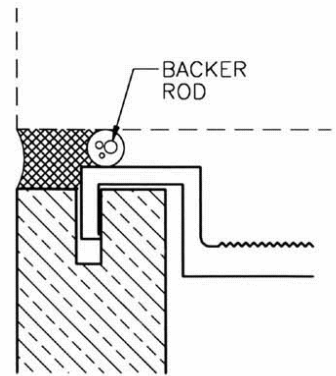
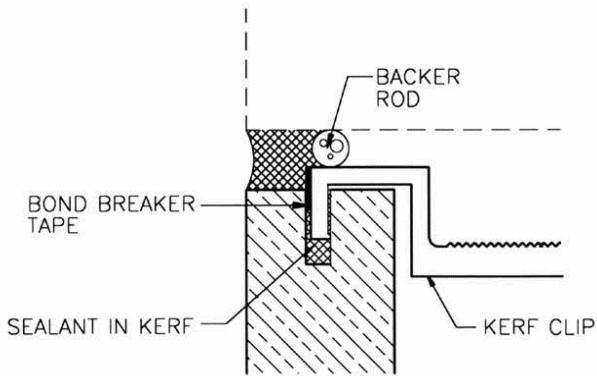


1. A B 6mm

1.

가

5.10 (Granite Kerf detail)



1. extrusion 3  
 2. 가 Kerf  
 3. Kerf

1. Kerf 가 3  
 2.

6.

6.1

(Glueline thickness)

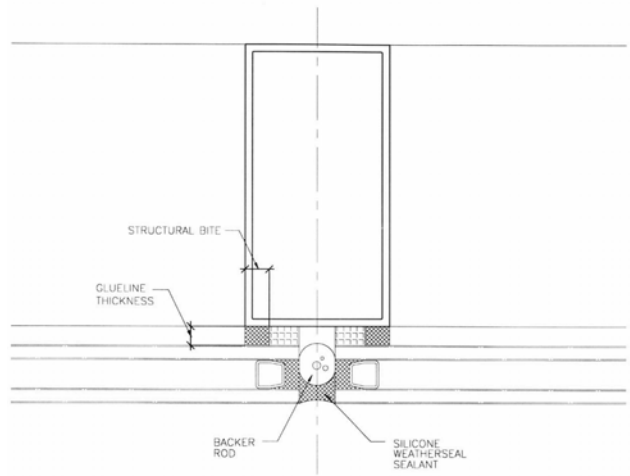
- 1)
- 2) , 가
- 3)

가

( :  
 (live load)  
 .)

, 가

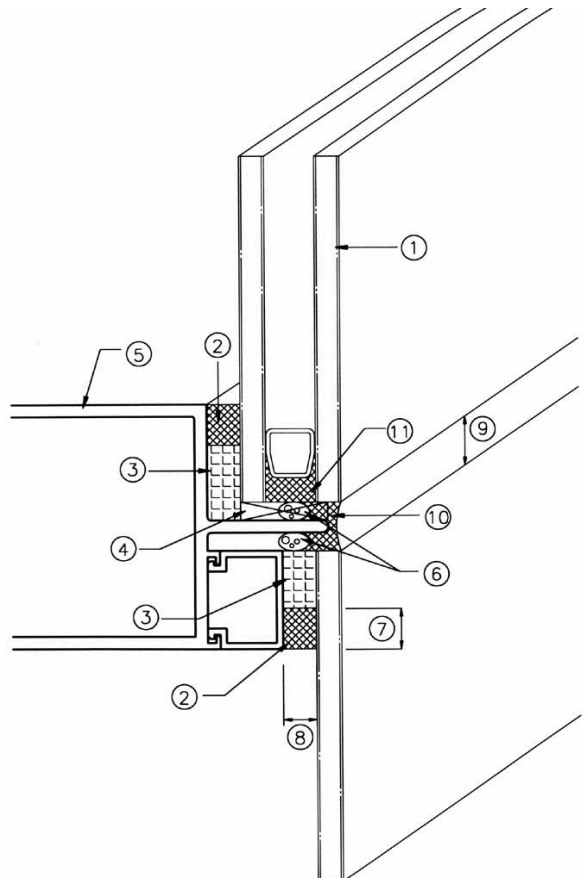
(Factory/Shop Glazing)



$Structural\ Bite \leq 3 \times Glueline\ Thickness$

6.2

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8. Glueline thickness
- 9. Weatherseal width
- 10. Weatherseal (Silicone)
- 11. 2



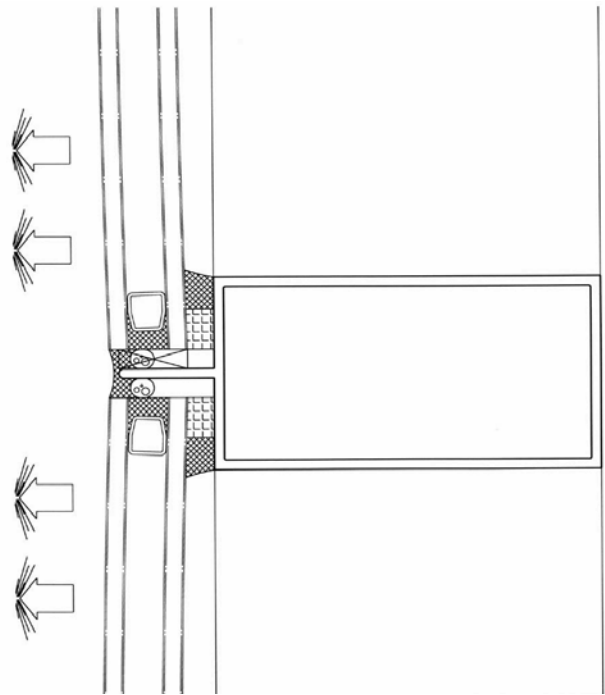
6.3 (Structural Bite)

(138kPa)

6.4 (Windload)

가

138kPa



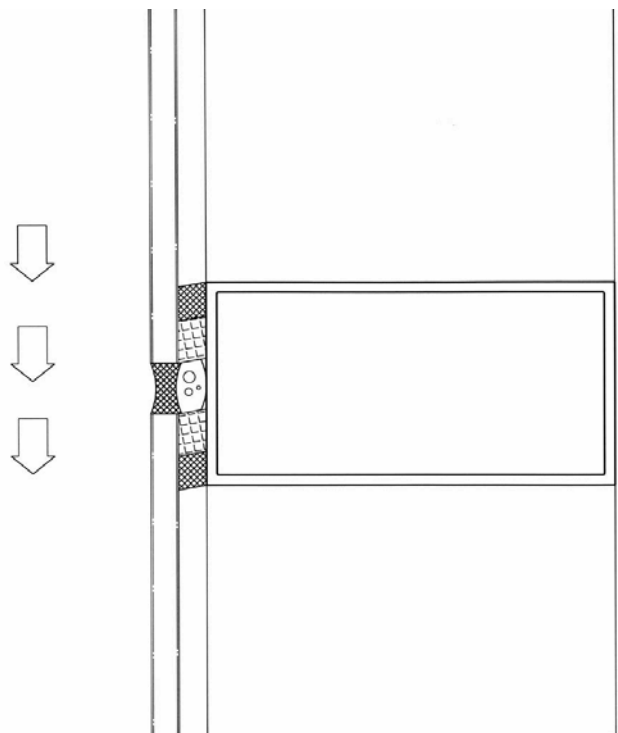
Direction of load caused by windload

6.5 (Deadload)

, Deadload  
700kg/m<sup>2</sup>

Deadload

가



Direction of load caused by deadload

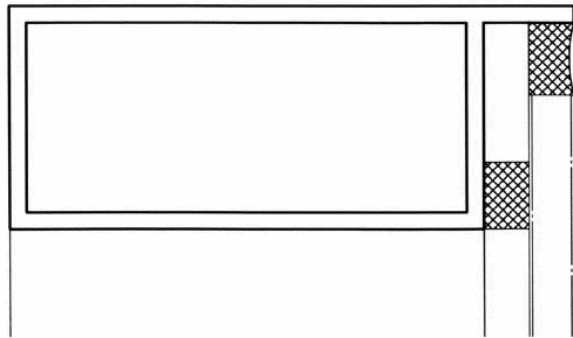
: Mill finish  
 Alodine Anodize 가

$$(Bite) = \frac{0.5 \times X \text{ (kPa)}}{(138 \text{ kPa})}$$

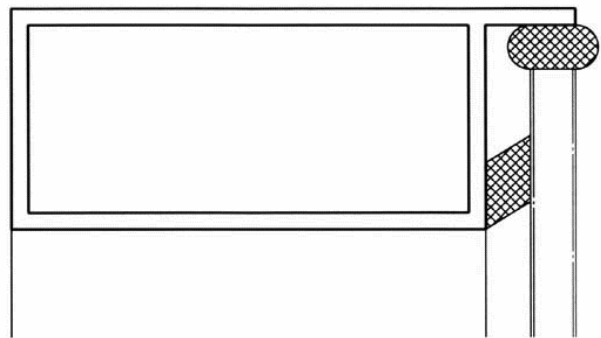
Glueline thickness  
 가

- 6mm
- Glueline thickness 6mm
- Glueline thickness
- Glueline thickness 1:1 3:1  
 가
- 1
- , 1500mm × 2,000mm 가 2.35  
 kPa 12.8mm  
 가 13mm
- 가
- Deadload  
 , 700kg/m<sup>2</sup> Deadload  
 가

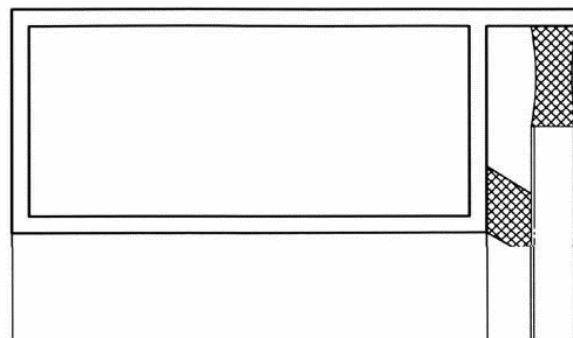
ORIGINAL



CONTRACTION



EXPANSION



**6.6 Glueline thickness**

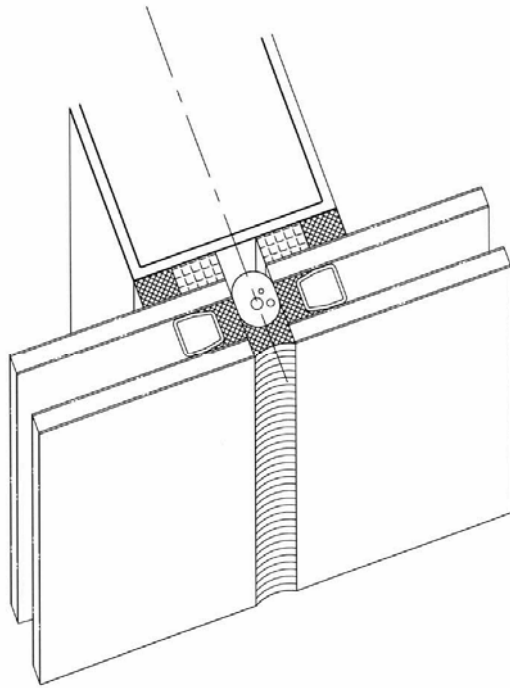
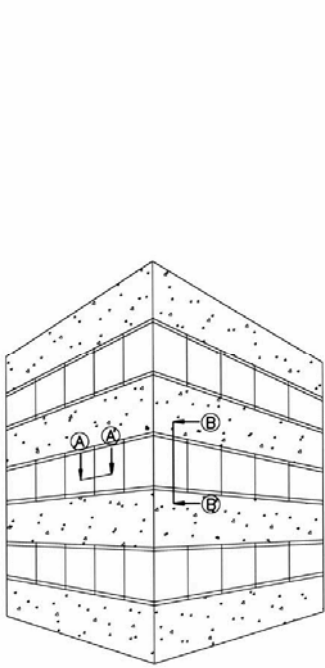
Glueline  
 thickness

6.7

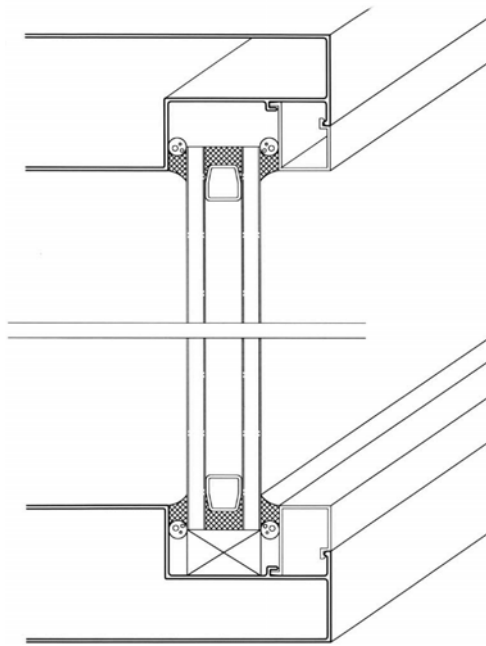
a) 2-Sided Structural Glazing

가 2

2



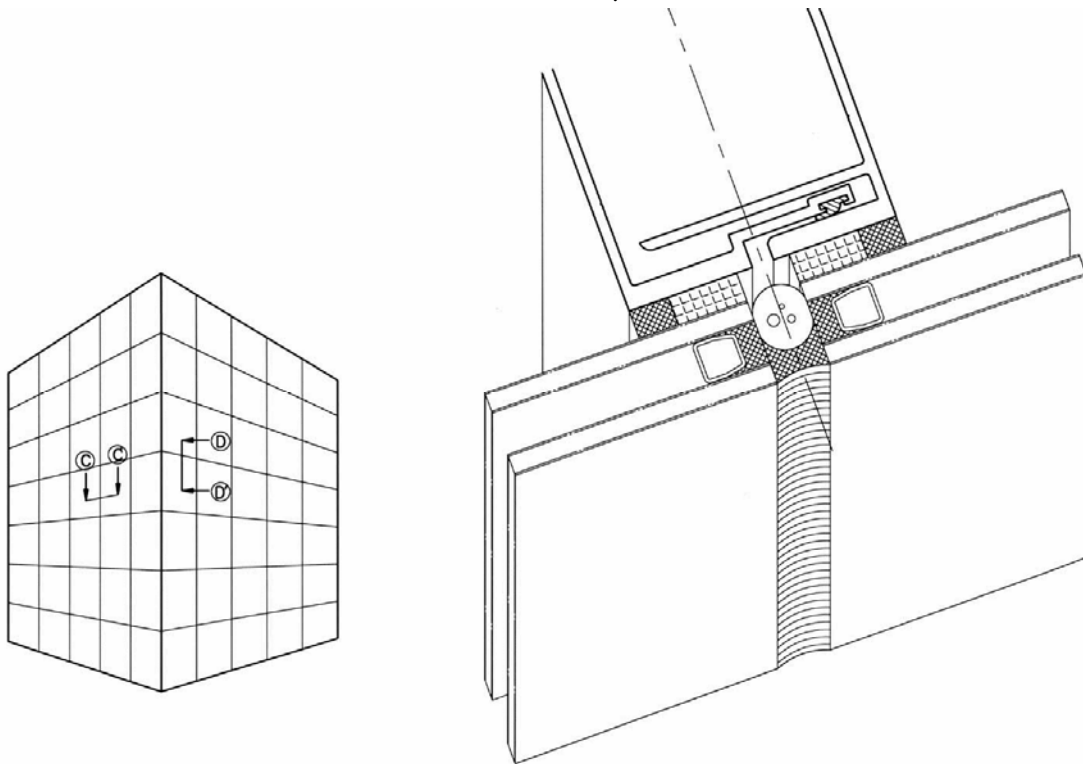
Section A-A



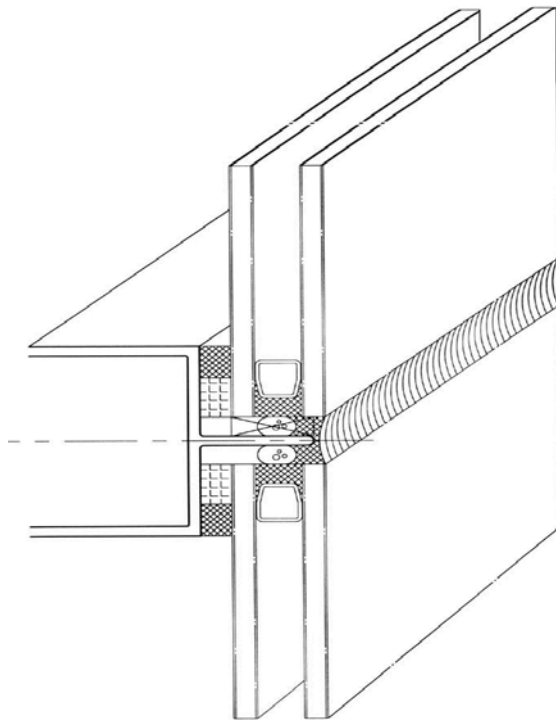
Section B-B

b) 4-Sided Structural Glazing

4



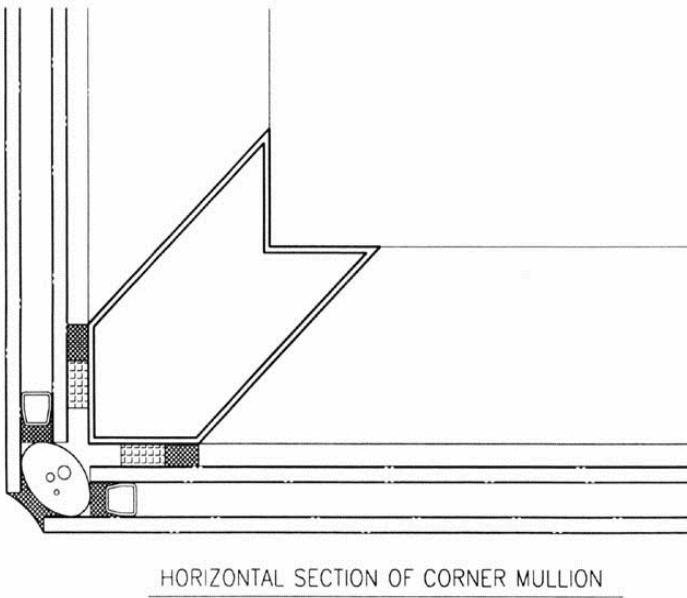
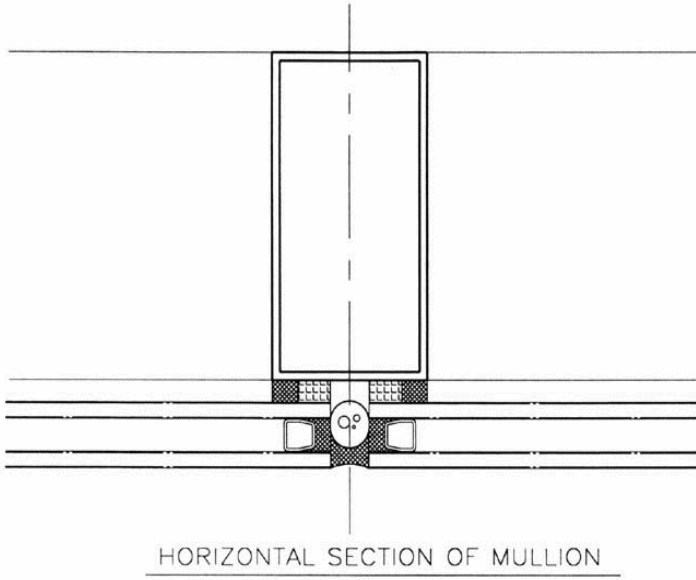
Section C-C

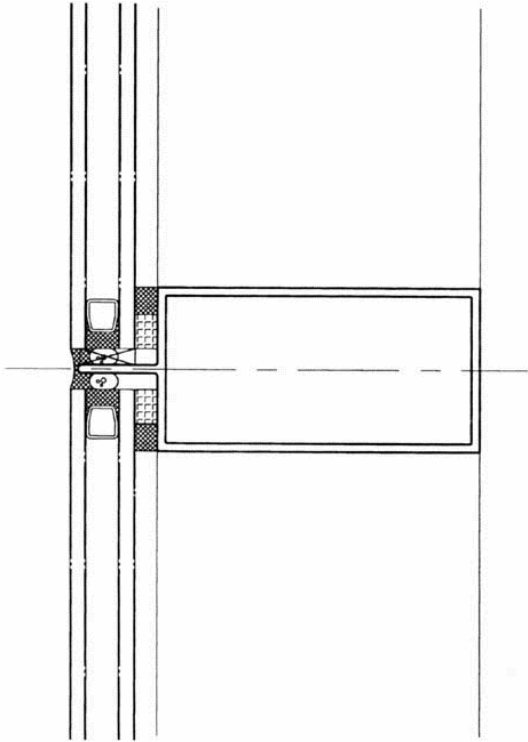


Section D-D

6.8

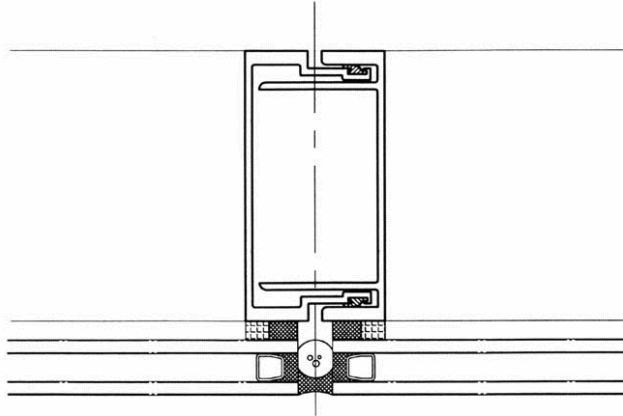
a) (Stick)



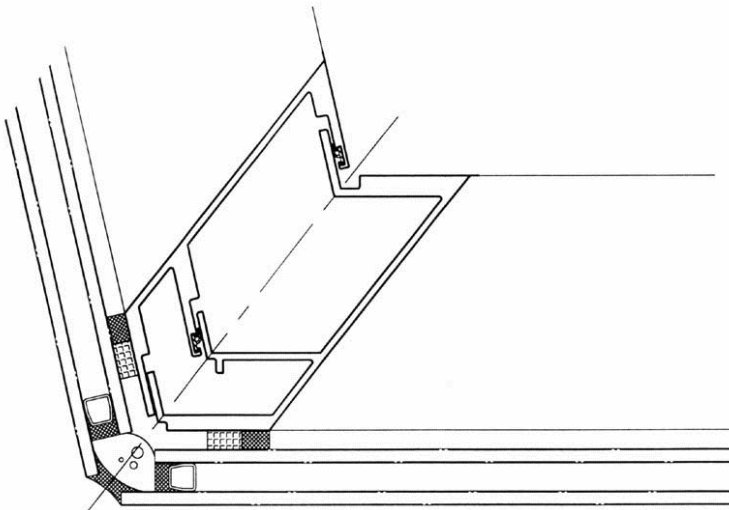


VERTICAL SECTION OF TRANSOM

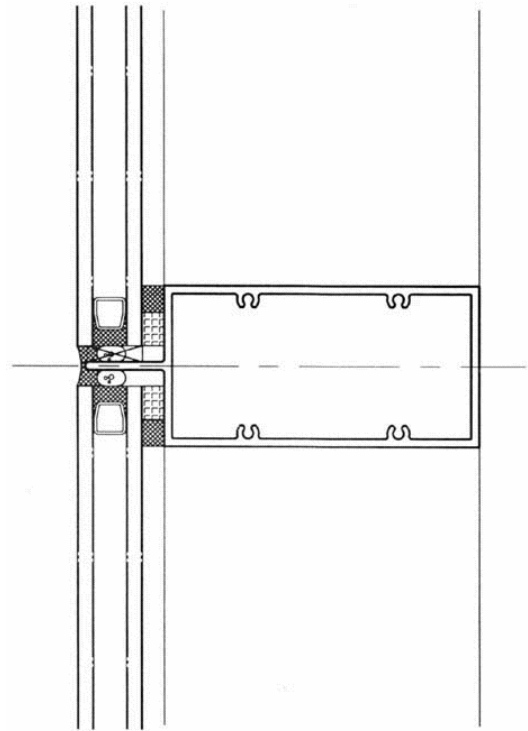
b) (Unitized)



HORIZONTAL SECTION OF MULLION



HORIZONTAL SECTION OF CORNER MULLION

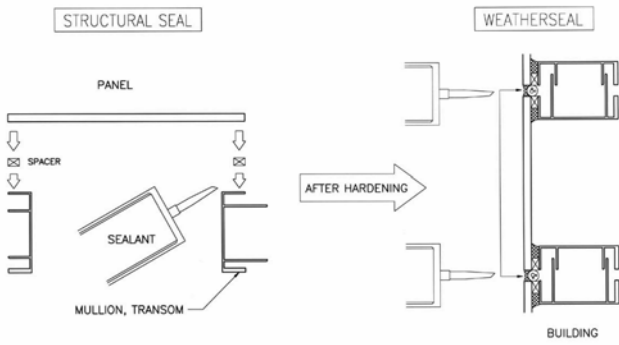


VERTICAL SECTION OF TRANSOM

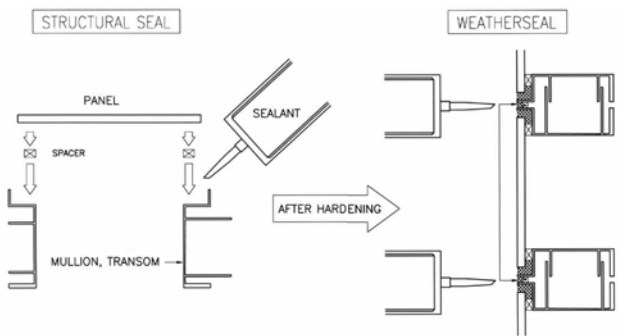


- 가 .( . ) .
- 
- 
- 

- 가 ,
- 
- 
- 



Unitized System #1 : Split Joint Design



Unitized System #2 : L-Joint Design

-

6.

6.10 (Stick)

(Splice Joint)

가 (Splice Joint) 가 4 ~ 5m  
 (Stick)  
 (Liveload)  
 (Splice Joint)가  
 4 ~ 5m (Liveload) 가  
 6mm

- 1)
- 2) 가
- 3) (Insulating Glass)

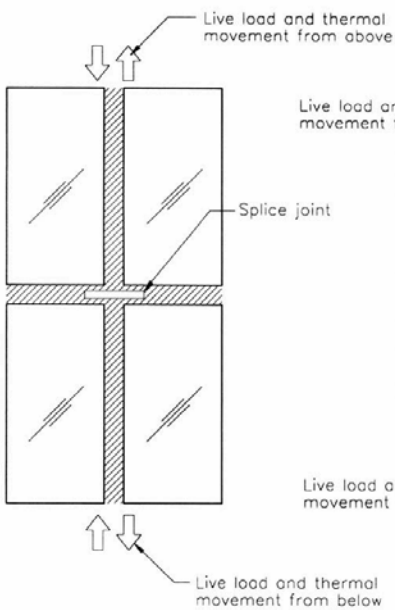
(Splice Joint)가

25mm

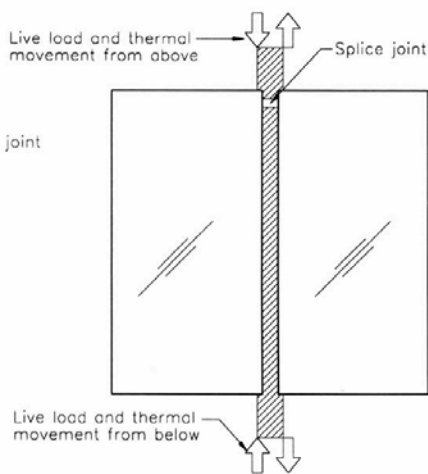
가

가

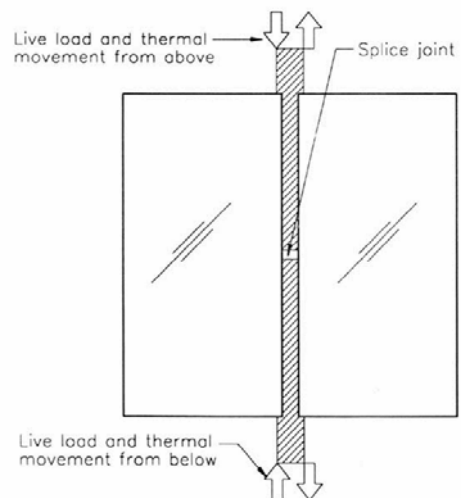
**Best Design**



**Better Design**



**Poor Design**



## 7.

---

### 7.1

(mm)	: ( )/ 1							
	(mm)							
	6	10	15	20	25	35	50	75
6	28	16.7	11.1	8.3	6.7	-	-	-
9		11.1	7.4	5.6	4.4	3.2	2.2	1.5
12			5.6	4.2	3.3	2.4	1.7	1.1

### 7.2

Glueline Thickness (mm)	: ( )/ 1						
	(mm)						
	6	10	12	15	20	25	35
6	28	16.7	13.8	11.1	8.3		
8		12.5	10.4	8.3	6.3	5.0	
9		11.1	9.3	7.4	5.6	4.4	
10			8.3	6.7	5.0	4.0	
12			6.9	5.6	4.2	3.3	2.4

( )  
가



가 . a) ,  
 , , IPA Methylethylketone(MEK)  
 ® PCB( ) . Xylene  
 ,  
 가 PCB 8.3  
 가  
 , ® 1200 Prime Coat ® 1205 Prime Coat  
 d) “Two-cloth” 1. Coat  
 , , 가 가  
 1. ( ) 2. ,  
 2. 10  
 가 3. 가  
 3. 가  
 4. :  
 가  
 가 4.

4. 가 a)

5. 5~30 가 1 가

6. 가

- 1.
- 2. 가 가
- 3.

가

6mm

8.4 가

a)

8.5

■ 6mm 가 , 가

■ 3 . 3

, 3 ± 15%

■ 가 가 가

4

■ 25mm MEK IPA 가

12mm

12mm

:

1. 가

2.

가

**8.6**

1. 가 ( 10 ~ 20 )  
가

2. ) ( 15

9.

9.1 (Setting) c) 가 ( 10 ~ 20 )  
 , ( : IPA)  
 “Flat Glass  
 Manufacturers Association(FGMA)” d) ( 15 )

9.3  
 a) 가  
 b) 가 가  
 ( ) (Site)  
 c) 가 가  
 가 가  
 가 가  
 ‘<sup>®</sup> 995’, ‘<sup>®</sup> 795’, 7

9.2 ~ 28  
 가 , (Factory or Shop) - 1  
 가 가 ‘<sup>®</sup> 995’, ‘<sup>®</sup> 795’  
 가 가 , 가  
 가 가  
 7 ~ 28

a) 가  
 b) 가  
 가  
 ( )

9.

---

(Factory or Shop)	- 2	a)
' 983 Silicone Glazing and Curtainwall Adhesive/Sealant'	3	가
24 ~ 48	7	b)
,	' 1200 Prime Coat	가
가 가		c) 0.5 ~ 1mm
		d) Two-Cloths
		가
1	가	e)
24	가	f)
가 가		가
		가
9.4		g)
가		h)
		i) 가
	가	
		가
		가
	가	가
	가	
	가	

# 10.

## 10.1

) , , ,  
c) / 가  
6.0kg/cm<sup>2</sup>가 ;(

가 )

d) , 가

e)

## 10.2

®

f) , ®

®

g)

가 ,

h) ® 가

i)

가

®  
PCB( )

j) 7 ~ 21

.(“ ” )

가 PCB

가

## 10.3

20

가

®

a) 가 가

b) 1. 가

가 ®

(

a) (Xylene Toluene )

b)

c)

d)

e)

2.

a)

2mm

b)

( , Xylene )

c)

d) (

Xylene Toluene

e)

f)

g) 가 7

(“ ” ).

# 11.

---

## 11.1

ISO 9000

가

가

## 11.2

/

1

1

가

( )

a) 1mm

b) ( 5 )

c) 가

3

d) 24

가

e)

(

).

## 11.3

가 7 ~ 21

(“13. ” ). 300m 10

300m 1

1

:

가

a)

b)

75mm

c)

25mm

d) 50mm(25mm )

90°

e)

가

f)

1

가

g)

가

“4.3

가

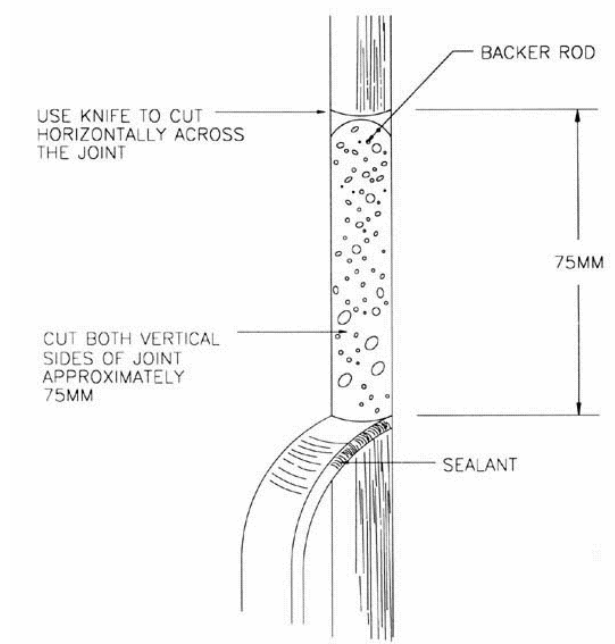
가

h) . “13. ”

: 가

11.4

가



Field Adhesion Test - Weatherseal Joint

11.5

가

a)

b)

c)

가

50mm

200mm, 25mm, 3mm

가

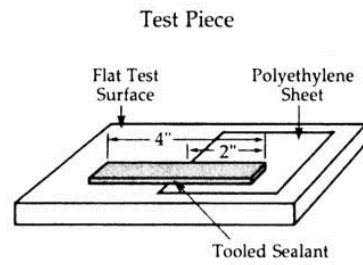
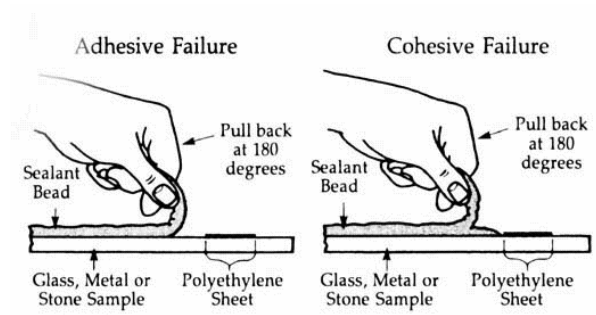
d) 7 ~ 14

3

5

:

1 ~ 7



®	
® 789	:
® 791-N	:
® 977	150%
® 991HP	150%
® 795	:
® 995	:
® 983	:

1 -

# 12.

ISO 9000

가 가

## 12.1.1

e) 가

ISO 795 가 ISO 995 가 ( )

## 12.2

ISO 995 32

ISO 983 32

ISO 795 27

ISO 983

1 가 가 가 가 가 가 가

a) 1mm

(Static Mixer)

b) ( 5 )

c) 가

가

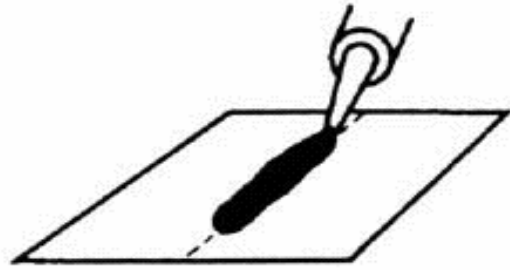
3

d) 24

(Snap-Time)

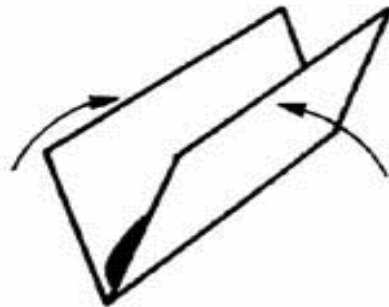
(Butterfly)

“13.



(Butterfly)

가



a)

b)

983

c)

가

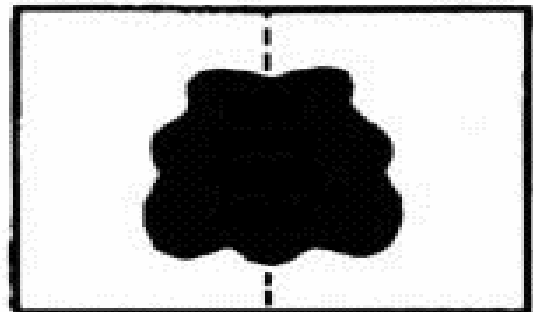
d)

e)

가 , 가

가

가



f)

가

가

(Static Mixer),

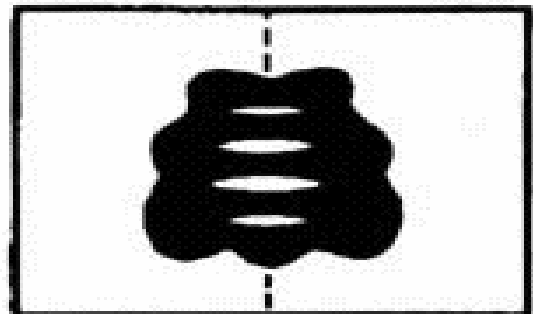
(Ratio system ball check value)

가

가

(Snap Time)

2

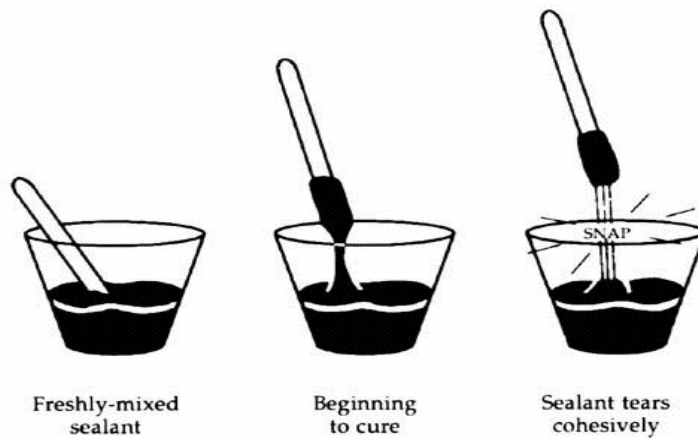


가

## 12.

### 12.3

- a) ' ( )<sup>®</sup> 983 ' ( )
- b) ' ( )<sup>®</sup> 983 Silicone Glazing and Curtainwall Adhesive/Sealant' ( )<sup>®</sup> 983 (Factory or Shop)
- c) 5 ~ 10 ( ) 가 (Snap time) 가 (Snap time)" ( )<sup>®</sup> 983 12 ~ 35
- d) 2 ( ) 가 25 가



( : )	( : )	( )
12 : 1	8.8 : 1	40
13 : 1	9.6 : 1	52
14 : 1	10.3 : 1	58

2 - (25 , 50%RH)

⑧ 983 Silicone Glazing and Curtainwall  
Adhesive/Sealant'

⑧ 983  
12:1 ~ 14:1, 8.8:1 ~ 10:1  
12:1,  
8.8:1  
가 , 가

⑧ 983 Silicone Glazing and Curtainwall  
Adhesive/Sealant' /

⑧ 983 가 2  
'Reinhardt Technik', 'Graco and  
H&G Industries'

- a)
- b) Glueline
- c)
- d)

2 ■

- a) - 10  
(1/10)
- b) - 40  
(2/50)
- c) - 50  
(3/100)
- d) ⑧ 983 100

2 가 가 가  
100 3%  
1%

12.4 ■ (Site / Shop)

■

## 13.

---

### 13.1

가

### 13.2

가

가

가

가

---

13.3

: \_\_\_\_\_  
:

: \_\_\_\_\_  
:

/  
Sealant Applicator:

: \_\_\_\_\_  
:  
:  
:  
:  
:  
:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

: \_\_\_\_\_  
:  
( ) : \_\_\_\_\_  
: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

( )

: \_\_\_\_\_

1. : \_\_\_\_\_

2. : \_\_\_\_\_ ( \_\_\_\_\_ m)

3. : \_\_\_\_\_ kg/m<sup>2</sup>

4. / : \_\_\_\_\_ mm X \_\_\_\_\_ mm X mm

\_\_\_\_\_ mm X \_\_\_\_\_ mm X mm

\_\_\_\_\_ mm X \_\_\_\_\_ mm X mm

4. Deadload 가

/ : \_\_\_\_\_ mm X \_\_\_\_\_ mm X kg

/ : \_\_\_\_\_ mm X \_\_\_\_\_ mm X kg

5. : \_\_\_\_\_ ~ \_\_\_\_\_

6. / : ± \_\_\_\_\_ mm

/ : ± \_\_\_\_\_ mm

/ : ± \_\_\_\_\_ mm

: ± \_\_\_\_\_ mm

6. : 4 sided/ 2 sided

7. : Site Glazing / Factory Glazing

8. : Site Glazing / Factory Glazing

9. : Structural Sealant - \_\_\_\_\_

Weatherproofing Sealant - \_\_\_\_\_

10. : Structural Sealant - \_\_\_\_\_

Weatherproofing Sealant - \_\_\_\_\_

11. Factory Glazing Unit : \_\_\_\_\_ Units

14. / : \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ ~ \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

15. :

13.4

: \_\_\_\_\_  
: \_\_\_\_\_  
: \_\_\_\_\_  
: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ : \_\_\_\_\_

/

Sealant Applicator:

\_\_\_\_\_ : \_\_\_\_\_  
: \_\_\_\_\_  
: \_\_\_\_\_  
: \_\_\_\_\_

( ) : \_\_\_\_\_

,

ST/N-ST\*

1.	_____	_____	_____
	_____	_____	_____
2.	_____	_____	_____
	_____	_____	_____
3.	_____	_____	_____
	_____	_____	_____
4.	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

13. \* ST - Structural, N-ST - Non structural

13.5

**Warranty Request**

Date : \_\_\_\_\_

Project Name : \_\_\_\_\_

Address : \_\_\_\_\_

Customer : \_\_\_\_\_

Address : \_\_\_\_\_

Product to be Warranted : \_\_\_\_\_

Warranty Commencement Date (Date of First Application) ( ) : \_\_\_\_\_

Warranty Type (Check required Warranty) (  )

1) Factory Glazing Warranty ( )

2) Site Glazing Warranty ( )

3) Product Performance Warranty ( )

4) Non Staining Limited Warranty( )

:

:

( ) :







13.9 (DEGLAZING)

:	
Applicator / Fabricator(Contractor)	
Type	

가	
---	--

		Structural Bite	Structural Bite	Glueline Thickness		

:

---



---



---



---



---



---



---

## 14. (Checklist)

---

N/A( )

### (Design Details)

1. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Mock-up / Shop

( :4 )

2. \_\_\_\_\_

\_\_\_\_\_

( , )

3. \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_

( :4 )

5. \_\_\_\_\_

\_\_\_\_\_

6. \_\_\_\_\_

\_\_\_\_\_

7. \_\_\_\_\_

\_\_\_\_\_

가

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_ Mock-up

11. \_\_\_\_\_

15.

---

●      ® 795  
1

●      ® 995  
1

●      ® 983  
2

●      ® 791-N                      , ± 50%

●      ® 789                              , ± 30%

●      ® 777                              , ± 25%

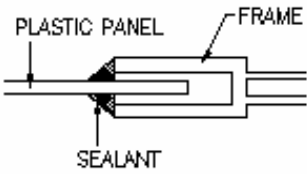
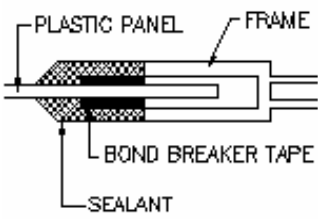
(                      )

●      ® 977                              , ± 50%

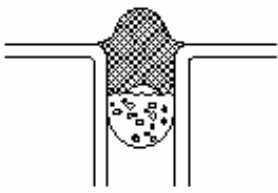

●      ® 991HP                              , ± 50%

## 16. (Trouble Shooting)

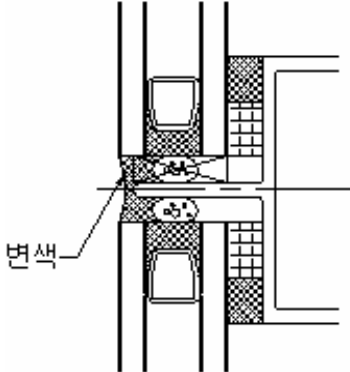
### (1) GLAZING

<ul style="list-style-type: none"> <li>■ ( , ) 가</li> </ul>	<ul style="list-style-type: none"> <li>■ Band-Aid( )</li> </ul>
 <p>PLASTIC PANEL FRAME SEALANT</p>	 <p>PLASTIC PANEL FRAME BOND BREAKER TAPE SEALANT</p>



### (2) BUBBLE

<ul style="list-style-type: none"> <li>■ 가 가</li> </ul>	<ul style="list-style-type: none"> <li>■</li> <li>■</li> </ul>
	 <p>비통기성 back-up재</p>

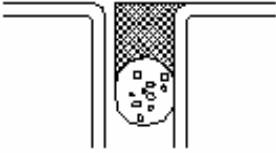
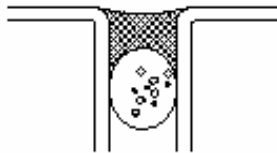
(3)

<p>■ 가 , ,</p>	<p>■ ■ ■</p>
	

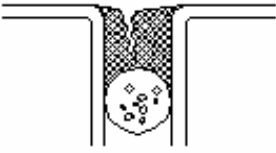
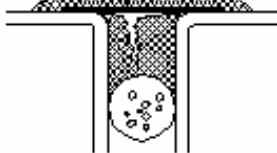
(4)

<p>■ 가 가</p>	<p>■ ■ ■</p>
	 <p>저 모듈러스 실리콘</p> <p>실란트 깊이 최소화</p>

(5)

<ul style="list-style-type: none"> <li>■ ,</li> <li>■ 2</li> <li>■ ,</li> <li>■ 가</li> </ul>	<ul style="list-style-type: none"> <li>■</li> <li>■ 2</li> <li>■</li> <li>■</li> </ul>
	

(6)

<ul style="list-style-type: none"> <li>■ 가</li> <li>■ 가</li> <li>■ ,</li> <li>■ 3</li> </ul>	<ul style="list-style-type: none"> <li>■ 가</li> <li>■</li> <li>■ Band-Aid( )</li> <li>■</li> </ul>
	<p style="text-align: center;">보수 씬란트 BOND BREAKER TAPE</p>  <p style="text-align: center;">BAND-AID JOINT</p>

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- ASTM C 719-93 Standard Test Method for Adhesions and Cohesion of Elastomeric Joint Sealants under Cyclic Movement(Hockman Cycle)

- 
- ASTM C 794-93 Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants.
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- ASTM C 1248-93 Standard Test Method for Staining for Porous Substrates by Joint Sealants.
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- ASTM C 1265-94 Standard Test Method for Determining the Tensile Properties of an Insulation Glass Edge Seal for Structural Glazing Applications.
- ASTM D 2202-93 Standard Test Method for Slump of Sealants.



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**AUSTRALIA**

Dow Corning Australia Pty. Ltd.  
Sydney - Level 12, Building A,  
423  
Pennant Hills Road,  
Pennant Hills NSW 2120.  
Tel : (02)1300 360 732  
Fax : (02)9847 4100

**INDIA**

Dow Corning India Liaison  
Office,  
1102, Maker Chamber V,  
221 Nariman Point,  
Mumbai(Bombay)  
400 021.  
Tel : 282 0194  
Fax : 282 8100

**INDONESIA**

Dow Corning Ltd.  
Indonesia Representative Office,  
Menara Thamrin, Level 6, Suite  
601  
Jalan MH. Thamrin Kav. 3,  
Jakarta 10250.  
Tel : 230 3255  
Fax : 230 3323

**JAPAN**

Dow Corning Toray Silicone Co.,  
Ltd.  
3rd Floor, AIG Building, 1-1-3  
Marunouchi, Chiyoda-ku,  
Tokyo 100.  
Tel : 3287 8300  
Fax : 3287 8311

**KOREA**

Dow Corning Korea Ltd.  
11th Floor, Hanil Group  
Building,  
191 Hankang-Ro 2-ga, Yongsan-  
Ku, Seoul  
140-702.  
Tel : 799 6400  
Fax : 790 8274

**MALAYSIA**

Dow Corning Singapore Pte. Ltd.  
(Malaysia Representative Office)  
Suite 1601B South Wing  
Level 16 Menara Choy Fook On  
No 1B Jalan Yong Shook Lin  
Section 7, 46050 Petaling Jaya  
Selangor Darul Ehsan  
Tel : 469 2088  
Fax : 469 2188

**NEW ZEALAND**

Dow Corning New Zealand  
Limited  
Administrator House, Unit G,  
Level 7, 44 Anzac Avenue,  
Auckland 1.  
Tel : 3733 870  
Fax : 3733 877

**CHINA**

Dow Corning China Ltd.  
Shanghai Representative Office,  
Suite 709, Shanghai Dynasty  
Business Centre, No. 457, Wu Lu  
Mu Qui Bei Lu, Shanghai  
200040.  
Tel : 6249 2316  
Fax : 6249 2317

Dow Corning Asia  
19th Floor, East Pint Centre,  
533 Hennessy Road, Causeway  
Bay.  
Tel : 2835 0350  
Fax: 2836 6650

**PHILIPPINES**

Dow Corning Singapore Pte. Ltd.  
(Philippines Representative  
Office)  
Unit 1402, Gallera Corporate  
Centre, Ortigas Co., Edsa  
Avenue,  
Quezon City. Metro Manila.  
Tel : 635 2798  
Fax : 634 0128

**SINGAPORE**

Dow Corning Singapore Pte. Ltd.  
101 Thompson Road, 32-01  
United  
Square, Singapore 307591.  
Tel : 253 6611  
Fax: 253 6070

**TAIWAN**

Dow Corning Taiwan Inc.  
Taipei - Union Enterprise Plaza,  
11th Floor, No. 109 Ming-Sheng  
East  
Road, Taipei  
Tel : 2713 6936  
Fax : 2717 2209

**THAILAND**

Dow Corning (Thailand) Ltd.  
17th Floor, BUI Building,  
177/1 Surawong Road, Soi  
Anumarnrajthom 1,  
Bangrak, Bangkok 10500.  
Tel : 634 7078  
Fax : 634 7077