



# 興業塑膠五金製品廠

## Hings Plastic & Metal Products Mfy.

Tel : ( 852 ) 2669 1939 E-mail : hingsmp@hings.hk Fax : ( 852 ) 2669 1792

**HINGS**<sup>®</sup>  
Elastomer  
Systems



Plastic Wood Sealing Gasket Rubber Guard Rubber Tactile Safety Mat Expansion Joint

工程用發泡小圓棒, 扁條

Foamed P.E. Backer rods and strips for Curtain Wall Works

### Properties of P.E. Foam

P.E 發泡條之技術數據

Density	:	29Kg/m <sup>3</sup>
密度		
Tensile Strength	:	3.4Kg/cm <sup>2</sup>
長力		
Tear Strength	:	1.8Kg/cm
撕力		
Elongation	:	60%
伸長率		
Shrinkage	:	-0.75%/70°C
收縮		
Water absorption	:	0.023mg/cm <sup>2</sup>
吸水		
Moisture Permeability	:	21g/m <sup>2</sup> /24hr.
透水		
Thermal Conductivity	:	0.026Kcal/mh°C
導熱		

※Foam P.E. tested to be compatible with all grades of  
**Silicone Sealant.**

※測試結果與所有號型之玻璃硅膠相容, 長期接觸不影響結構玻璃  
硅膠之本質

**Santoprene**<sup>®</sup>  
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香港九龍旺角新填地街594號興業樓2樓  
2/F., Hings Building, 594 Reclamation St., Mongkok, Kln., H.K.  
Website : [www.hingsgroup.com](http://www.hingsgroup.com)



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Sealing Strip  
The original from Sweden



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## Properties of Polyethylene (P.E.) Foam Rubber

Density	:	29Kg/m <sup>3</sup>
密度		
Tensile Strength	:	3.4Kg/m <sup>2</sup>
張力		
Tear Strength	:	1.8Kg/cm
撕力		
Elongation	:	60%
伸長率		
Shrinkage	:	-0.75%/70°C
收縮		
Water absorption	:	0.023mg/cm <sup>2</sup>
吸水		
Moisture Permeability	:	21g/m <sup>2</sup> /24hr.
透水		
Thermal Conductivity	:	0.026Kcal/mh°C
導熱		



**Purpose : Themal , Insulation, Joint Filler, Protective guard,  
Waterproofing**

用途：隔熱,, 石矢填縫, 保護防撞膠, 防水



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## Dow Corning Construction Industry System Laboratory Report - Sealant Compatibility

**Date:** 22 October 2004  
**Document ID:** 0000013019  
**Project Number:** 0000008300  
**Project:** TMTL 425 Phase II Extension - HONG KONG  
**Job Number:** 0000010496  
**Job Name:** TMTL 425 Phase II Extension, Aluminium Curtain Wall  
**Job Address:** TMTL 425 Area 9 & TMTL 226, Tuen Mun, Hong Kong  
**Customer:** Hingsking Building Materials & Engineering Ltd.  
**Distributor:** Atom Bondway Co., Ltd

COMPATIBILITY TESTING (Modified ASTM C1087)

Dow Corning has completed compatibility testing / evaluation in support of the above referenced project. A summary of this laboratory testing / evaluation and application recommendations is given below.

1.	Substrate Description
<b>Substrate Description</b>	Hings gasket EVA GT4000 foam tape
<b>Surface to Test</b>	Uniform Surface
Sealant	Application Recommendation
Dow Corning® 791 Silicone Weatherproofing Sealant	Approved for Weatherseal Applications
Dow Corning® 795 Silicone Building Sealant	Approved for Full Contact in Structural Applications
Dow Corning® 983 Silicone Glazing & Curtainwall Adhesive / Sealant	Approved for Full Contact in Structural Applications
Dow Corning® 995 Silicone Structural Sealant	Approved for Full Contact in Structural Applications
2.	Substrate Description
<b>Substrate Description</b>	Hings closed cell polyethylene (PE) foam backer rod
<b>Surface to Test</b>	Uniform Surface
Sealant	Application Recommendation
Dow Corning® 791 Silicone Weatherproofing Sealant	Approved for Weatherseal Applications
Dow Corning® 795 Silicone Building Sealant	Approved for Full Contact in Structural Applications
Dow Corning® 983 Silicone Glazing & Curtainwall Adhesive / Sealant	Approved for Full Contact in Structural Applications
Dow Corning® 995 Silicone Structural Sealant	Approved for Full Contact in Structural Applications
3.	Substrate Description
<b>Substrate Description</b>	Hings closed cell polyethylene (PE) foam backer strip
<b>Surface to Test</b>	Uniform Surface

**DOW CORNING CORPORATION**  
 Your Global Construction Connection @  
[www.dowcorning.com/construction](http://www.dowcorning.com/construction)

**AMERICAS**  
 Sealant Test Lab, DC-4, Lab 3A4  
 2200 W. Salzburg Road  
 Auburn, MI 48611  
 USA  
 Tel: 989 496 5237  
 Fax: 989 496 4374  
[Americas.Coins@dowcorning.com](mailto:Americas.Coins@dowcorning.com)

**ASIA**  
 Songjiang Plant Dow Corning  
 (Shanghai) Company, Ltd.  
 448 Eastern Ave.  
 Songjiang Industrial Zone  
 Shanghai 201613, P. R. China  
 Phone: 86 21 5774 1161  
 Fax: 86 21 5774 3471  
[Asia.Coins@dowcorning.com](mailto:Asia.Coins@dowcorning.com)

**EUROPE**  
 Parc de Seneffe Dow Corning  
 S.A.  
 Parc Industriel  
 7180 Seneffe  
 Belgium  
 Phone: 32 64 888 000  
 Fax: 32 0 64 88 8950  
[Europe.Coins@dowcorning.com](mailto:Europe.Coins@dowcorning.com)

**DOW CORNING**



Sealant	Application Recommendation
Dow Corning® 791 Silicone Weatherproofing Sealant	Approved for Weatherseal Applications
Dow Corning® 795 Silicone Building Sealant	Approved for Full Contact in Structural Applications
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Dow Corning® 995 Silicone Structural Sealant	Approved for Full Contact in Structural Applications

The results of the compatibility testing are only valid as long as the supplier certifies that neither the formulation nor manufacturing process for these materials has been changed.

Application recommendations are based on Dow Corning laboratory testing, evaluation, and technical specifications.

For further information regarding these test results, please contact your Dow Corning Construction Field Specialist, Christopher Fung, on (852) 2835-0303 at Hong Kong, CHINA (E-mail: christopher.fung@dowcorning.com).

Sincerely  
DOW CORNING CORPORATION



Jerry Ma  
Technical Service Engineer – Asian Area



FOR REFERENCE ONLY

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[www.dowcorning.com/construction](http://www.dowcorning.com/construction)

**DOW CORNING**

**AMERICAS**  
Sealant Test Lab, DC-4, Lab 3A4  
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Tel: 989 496 5237  
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**ASIA**  
Songjiang Plant Dow Corning  
(Shanghai) Company, Ltd.  
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Fax: 86 21 5774 3471  
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**EUROPE**  
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Parc Industrie  
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Belgium  
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Fax: 32 0 64 88 8950  
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Plastic Wood Sealing Gasket Rubber Guard Rubber Tactile Safety Mat Expansion Joint

# BACKER ROD

closed cell polyethylene foam  
**EXPANSION JOINT  
and SPACE FILLER**

- Suitable under the most adverse conditions.
- Superior ageing characteristics.
- No water absorption, closed cell polyethylene.
- Joints are water proof.
- No adhesion to sealants.
- Excellent dimensional stability.
- Light weight and easy to installation.
- Resistant to most chemicals.
- Curtain wall construction.
- Vertical and horizontal joint filler.
- Sealing interior wall joints.
- Draught proofing.
- Sealing electrical boxes.
- Bridge abutments.
- Sealing windows.
- Furniture piping.

**“HINGS” closed cell P.E. foamed backer rods are the recommended back-up materials for Silicone Sealant Joint.**

**“HINGS” closed cell P.E. foamed backer rods are tested to be compatible with all grades of Silicone Sealant.**



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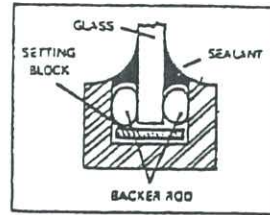
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# Typical Applications

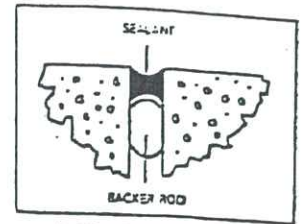
**BUILDING** Vertical and horizontal joint filler in concrete and between precast concrete panels • Interior walls • Sealing skylights • Shop fronts and curtain wall construction.

**INDUSTRIAL** Swimming pools • Draught proofing • Dust sealing • Electrical – sealing control boxes • Truck and trailer construction.

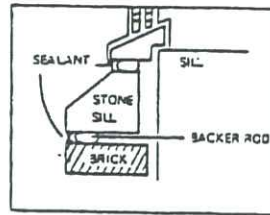
**FURNITURE** Piping around chairs.



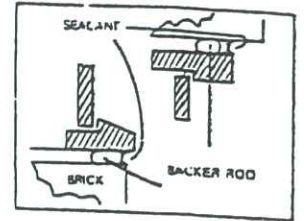
WINDOW GLAZING



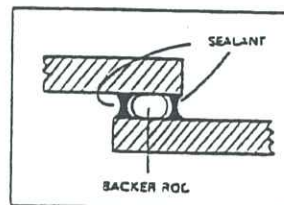
MASONRY EXPANSION JOINTS



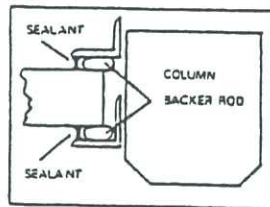
COPINGS



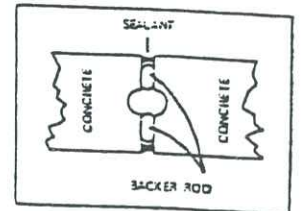
COPINGS



PANEL WALLS



CURTAIN WALL CONSTRUCTION



PRE-CAST UNITS

## Moisture Absorption

BACKER ROD was immersed in water for 7 days and at the end of this period the moisture absorption was less than 1%. This is because the polyethylene foam has independent bubbles with a continuous outer skin, which acts as a moisture barrier virtually eliminating moisture absorption.

## Thermal Conductivity

Thermal conductivity  
at 0°C 0.030 Kcal/m.h.°C  
at 20°C 0.031 Kcal/m.h.°C

## Heat Ageing

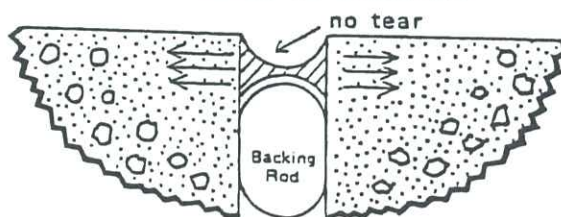
Shrinkage after 24 hours at 70°C, less than 1%.  
Shrinkage after 24 hours at 90°C, approx. 1%.

## No Adhesion To Sealants

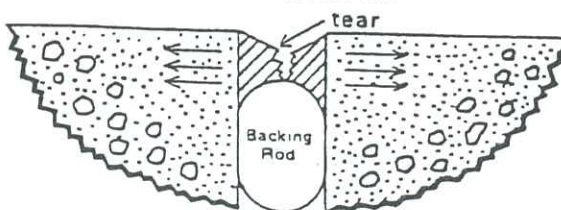
Adhesion of the sealant to the expansion joint can cause tearing of the sealant layer after a series of compression and expansion cycles.

Sealants will not adhere to polyethylene, therefore BACKER ROD has this real advantage over other materials.

## NO ADHERENCE TO SEALANT



## ADHERENCE TO SEALANT



# Product Description

BACKER ROD is a rod of closed cell polyethylene foam, manufactured using a unique process.

The process produces a closed cell polyethylene foam rod which is exceptionally strong for its very light weight.

The closed cells give BACKER ROD its excellent dimensional stability

enabling it to withstand many years of compression and expansion and also gives the product its superior water proofing properties.

BACKER ROD is highly resistant to weathering, ultra-violet rays, most common chemicals and oxidation. It is non-toxic and odourless.

## BACKER ROD Sizes

Nominal Diameter
6 mm
8 mm
10 mm
13 mm
15 mm
18 mm
20 mm
25 mm
30 mm
35 mm
40 mm
50 mm

## BACKER ROD Physical Properties

### Weather Resistance

BACKER ROD was subjected to 400 hours of UV irradiation in a Weatherometer, which is equivalent to two years exposure to sunlight. See table below for results.

Exposure hours	Tensile Strength	Elongation	
	kg/cm <sup>2</sup>	Change index	% Change index
0	3.0	100	26.3
24	3.3	111	35.0
72	3.7	123	46.8
168	3.6	119	39.8
400	2.7	90	20.0

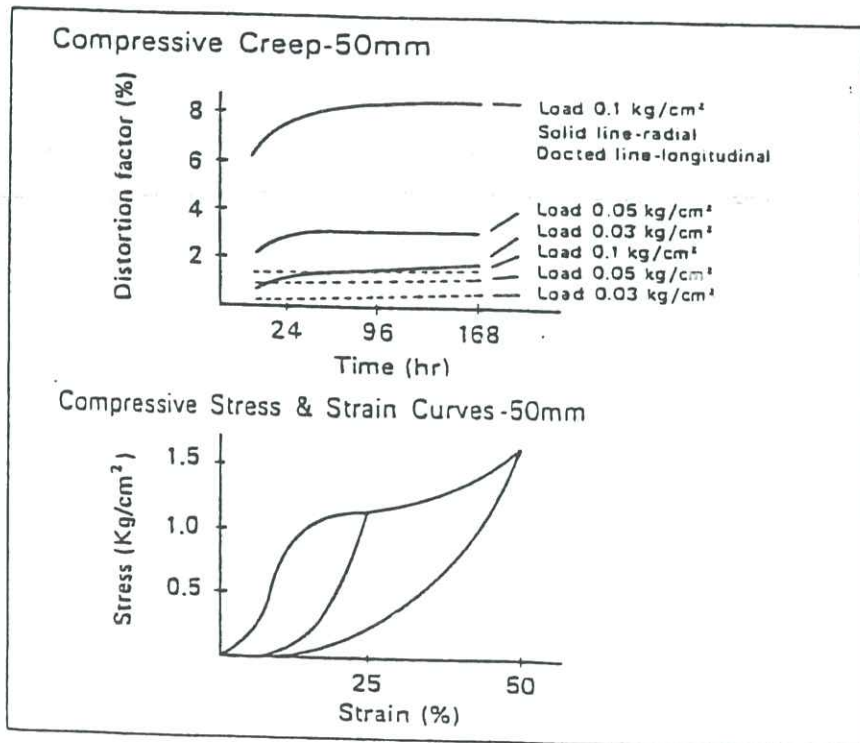
## Specifying Sizes When Ordering

To obtain a good seal BACKER ROD should be compressed 30% when in position. Therefore specify a diameter of rod 30% larger than the width of the opening to be sealed.



# Technical Specifications

PROPERTY	ROD DIAMETER		
	10mm	30mm	50mm
Tensile strength, Kg/cm <sup>2</sup>	3.59	2.37	5.16
Elongation %	46.5	52.3	64.3
Compression Set radial % longitudinal %	4.0	4.1	2.5 5.5
Repeated compressive permanent set radial % longitudinal %	3.0 3.2	3.4 3.6	3.4 3.5
Longitudinal compressive strength, Kg/cm <sup>2</sup> 25% compression 50% compression 75% compression	0.75 1.35 3.21	0.77 1.44 3.44	1.12 1.65 3.70



Typical laboratory test results.







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## Job Reference for Foamed P.E. Backer Rod & Backer Strip for Curtain Wall Works

1. Dragonair & CNAC Bldg.  
Flour City Architectural Metal (Asia) Ltd.
2. S.I.L. 826 A Kung Ngam, Shau Kei Wan, Hong Kong  
Full Arts Metal Works Ltd.
3. 654 Kwun Tong, Kowloon  
Far East Structural Steelwork Eng. Ltd.
4. Cityplaza North Renovation - Recladding of Footbridge  
Manhattan Curtain Wall Co., Ltd.
5. H.K. Central Library, Moreton Terrace, Causeway Bay, Hong Kong  
Redland Precast Concrete Products Ltd.
6. Stafford Road, Kowloon Tong, Kowloon  
Builders Federal (HK) Ltd.
7. Fanling area 49A Phase 2  
Apex Curtain Wall & Windows Co., Ltd.
8. Water Works Departmentm Kwun Tong, Kowloon  
Lucking (Asia) Engineering Co., Ltd.
9. Olympic Station Tai Kok Tsui, Kowloon  
Tri - Tech Metals Co., Ltd.
10. Tsing Yi Commercial Development  
Josef Gartner & Co., (HK) Ltd.
11. Tseung Kwan O Area 74, Phase 3  
O & T Contracting Co., Ltd.
12. No. 21 D'Aguilar Street, Central, Hong Kong  
O & T Contracting Co., Ltd.
13. 21-31 Black's Link, Hong Kong  
O & T Contracting Co., Ltd.
14. Villa Esplanda Phase III  
ACME Metal Works (Int'l) Ltd.



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Systems



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## Job Reference for Foamed P.E. Backer Rod & Backer Strip for Curtain Wall Works

- 
- 15. Ma Wan  
ACME Metal Works (Int'l) Ltd.
  - 16. Wan Hoi Street, Hung Hom KIL 1105  
Far East Aluminium Works Co., Ltd.
  - 17. No. 41 Stubbs Road, Hong Kong  
Far East Aluminium Works Co., Ltd.
  - 18. Integer Hong Kong Pavilion  
Far East Aluminium Works Co., Ltd.
  - 19. Hok Un Redevelopment Phase IVA & IVB  
YKK AP Hong Kong Ltd.
  - 20. Redevelopment of Yau Tong, Phase 5  
Manhattan Curtain Wall Co., Ltd.
  - 21. No. 8A -8F Shiu Fai Terrace Hong Kong  
Apex Curtain Wall & Windows Co., Ltd.
  - 22. CC300 Tsuen Wan Station  
H H Robertson (NEA) Ltd.
  - 23. Royal Cliff Repulse Bay, Hong Kong  
Unison Projects Co., Ltd.
  - 24. Tai Po Telepark 3A  
Millennium Engineering Ltd.
  - 25. Yan Fook Church, Cheung Sha Wan, Kowloon  
Millennium Engineering Ltd.
  - 26. Science Park, Pak Shek Kok, Tai Po  
Far East Aluminium Works Co., Ltd.
  - 27. 11 Chater Road, Central, Hong Kong  
Josef Gartner & Co., (HK) Ltd.
  - 28. Cyber Port, Pok Fu Lam, Hong Kong  
Sun Smart Engineering Ltd.



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## Job Reference for Foamed P.E. Backer Rod & Backer Strip for Curtain Wall Works

29. Mei Foo Station

Redland Precast Concrete Products Ltd.

30. No.6 York Road, Kowloon Tong

Winfield Bldg Material & Engineering Ltd.

31. Tseung Kwan O Area 73, Phase 3

Unison Projects Co., Ltd.

32. Lam Tin Phase 6

Shui On Plant & Equipment Services Ltd.

33. Three Pacific Place

Josef Gartner & Co., (HK) Ltd.

34. KCRC East Rail Extensions

G & M Engineering Co., Ltd.

35. SSK 342 Primary School, San Po Kong, Kowloon

G & M Engineering Co., Ltd.

36. KCRC TCC 500 Tai Wai Maintenance Centre

Manhattan Curtain Wall Co., Ltd.

37. Union Square

United Reliance Corporation Ltd.

38. Crown Macau

PMB - Cyberwall Ltd.

39. Princess Margaret Hospital

PMB - Cyberwall Ltd.

40. Tung Chung 5A

KPA Engineering Ltd.

41. Tai Yuen Street, Wanchai

LCS Engineering Co., Ltd.

42. Ma Wan Phase 5

YKK AP Hong Kong Ltd.



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## Job Reference for Foamed P.E. Backer Rod & Backer Strip for Curtain Wall Works

---

- 43. No. 68 Mount Davis Road  
PMB - Cyberwall Ltd.
- 44. Discovery Bay  
YKK AP Hong Kong Ltd.
- 45. Peking Road / Hankow Road  
Well Concord Design & Engineering Ltd.
- 46. Route - 9 Shatin Height, N.T.  
Why Engineering & Construction Co., Ltd.



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# Hings Backer Rod Series

## 興業小圓棒系列

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FAX:(852) 2669 1792

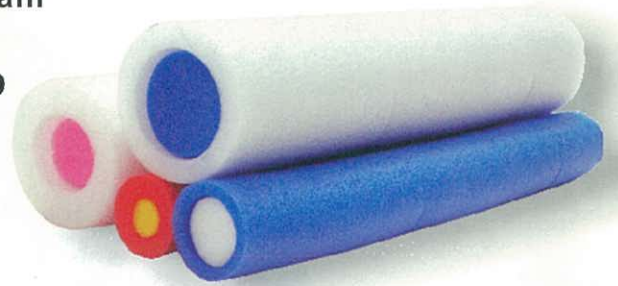


# HINGS

Closed Cell Polyethylene (PE) Foam

## Backer Rod / Backer Strip / Bond Breaker Strip

Special designed for use in curtain walls, metal claddings, concrete panels and masonry walls.



**興業** 大量生產專為建築填縫而設計之發泡

聚乙烯(PE)小圓棒/方條等系列，適合幕牆、鋁扣板、混凝土預制件、伸縮縫等工程使用，可提供詳盡之技術數據及測試報告等，常備現貨，歡迎查詢，

### Advantages of Hings backer rods & strips.

- Tested to be compatible with silicone sealant.
- No water absorption.
- No adhesion to sealant.
- Superior ageing characteristics.
- Resistant to most chemicals.
- Excellent dimensional stability.
- Light weight and easy to install.
- All sizes available.
- Multi color

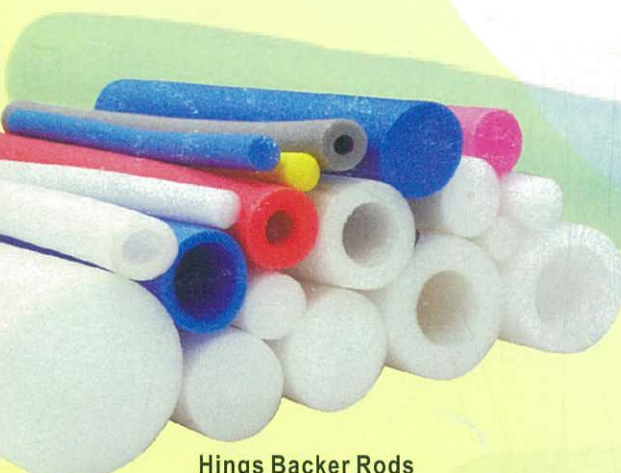
### Job References

- Hong Kong International Airport.
- Dragonair & CNAC Building.
- Hong Kong Central Library.
- Cyber Port. Pok Fu Lam.
- Tai Po Telepark 3A.
- KCRC East Rail Extensions.
- Tseung Kwan O Area 73, Phase 3
- Lam Tin Estate, Phase 6.



Hings Backer Strip

**興業**小圓棒系列可任何尺寸(Φ5mm~Φ75mm)，多種顏色、不吸濕、耐老化、不粘膠、測試結果與所有牌號之硅膠相容。



Hings Backer Rods

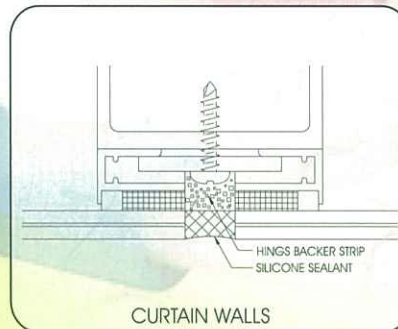
Properties of Hings closed cell polyethylene foam rods / strips.

- Density : 29kg/m<sup>3</sup>
- Hardness : 30±5A
- Elongation : 60%
- Tensile Strength : 3.4kg/cm<sup>2</sup>
- Working Temperature : -20° ~ +100°C
- Heat Insulation : 0.55W / (M<sup>2</sup> K)
- UV Resistance : Excellent
- Compatible with silicone sealant

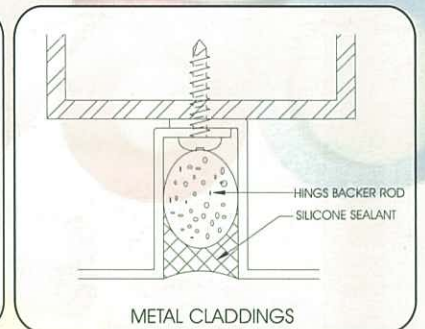
※ To obtain a good seal, Hings backer rod should be compressed 30% when in position. Therefore, specify a diameter of rod 30% larger than the width of the opening to be sealed.

※ Hings bond breaker strip can be one side or two sides with adhesive tapes.

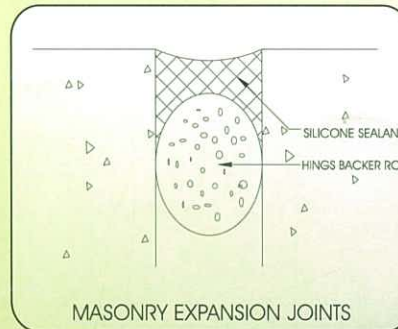
※ Closed cell polyethylene foam is the recommended back-up materials for most joints by sealant manufacturers like Dow Corning, GE & Wacker.



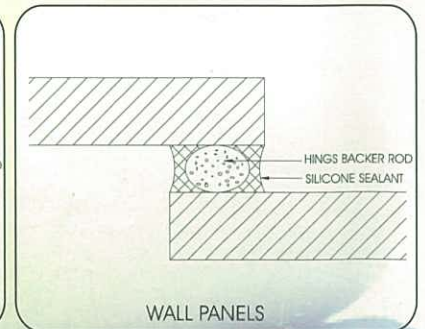
CURTAIN WALLS



METAL CLADDINGS



MASONRY EXPANSION JOINTS



WALL PANELS

Backer Rod Specialist

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E-mail : hingspmp@hings.hk

Website : <http://www.hingsgroup.com>

For further information, please contact Mr. Lin Fat Hing or purchase directly from our retail shop located at 592-594 Reclamation Street, Mongkok, Kln., H.K.

若有任何查詢，請聯絡連發興先生或親臨香港九龍旺角新填地街 592-594 號門市購買

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