



ALBENestra[®]



Performance Sliding Window **PSW01**

Designed and tested according to MS832



**LB
ALUMINIUM
BERHAD**

198501006093 (138535-V)

Product

ALBENestra PSW01

Typical Technical Features

inner Frame Thickness	:	1.35mm
Inner Frame Depth	:	23.00mm
Inner Frame Width	:	50.00mm
Outer Frame	:	2 & 3 Tracks
Outer Frame Depth	:	65.00mm & 97.50mm
Corner Joints	:	Mitre Joints with Brackets
Glazing Gap	:	15.00mm
Locking System	:	Single Point



Performance Test

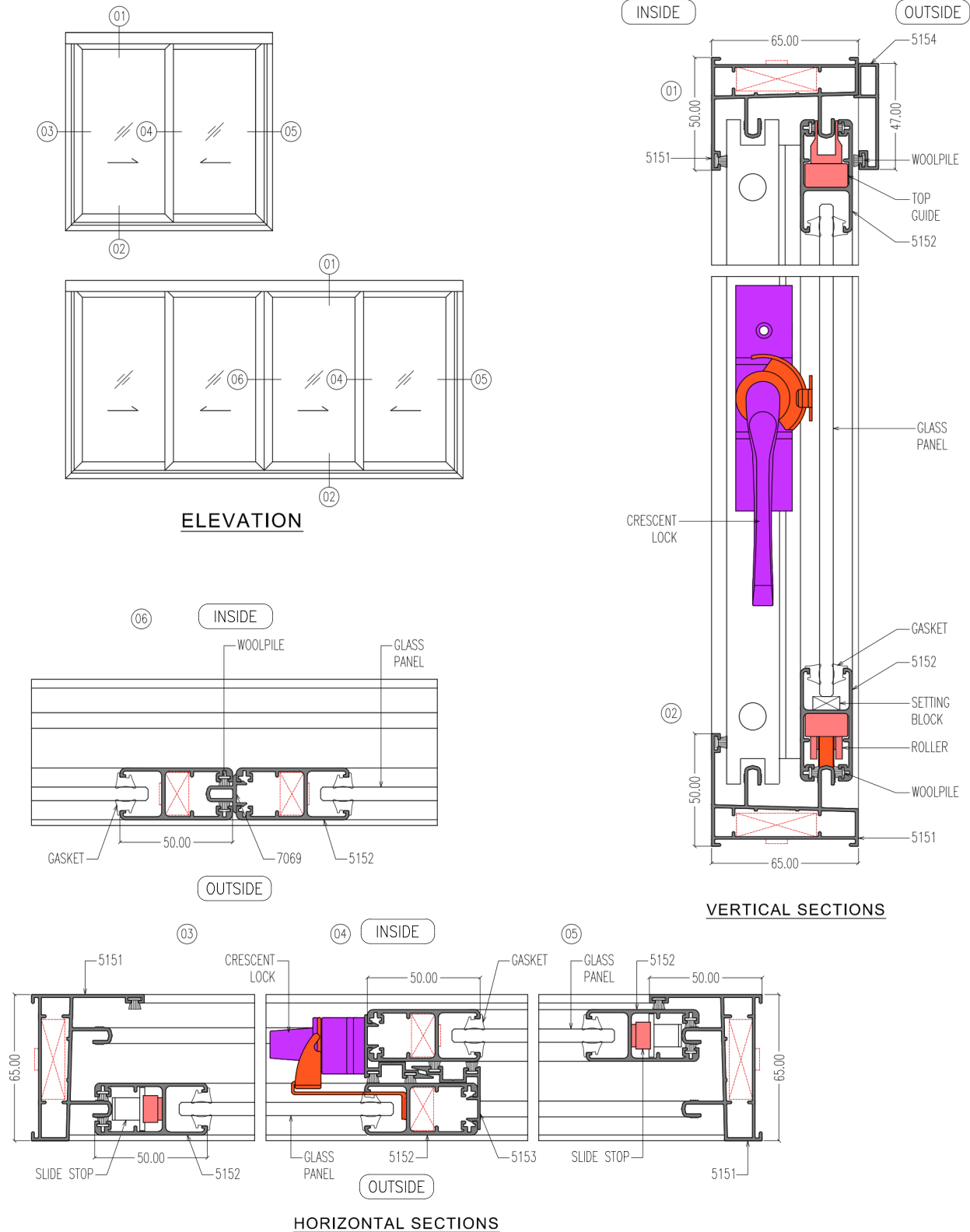
This sliding window suite had been tested in compliance to MS 832:2022 performance test procedure for:

1. 1200Pa windload : Passed
2. 240Pa air leakage : Passed
3. 360Pa water infiltration : Passed

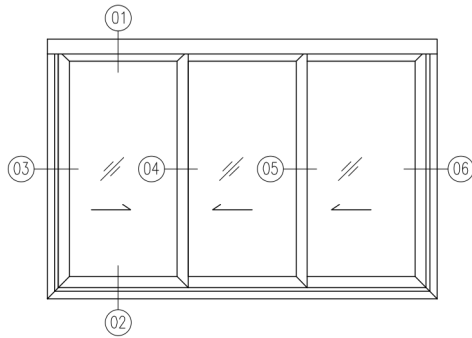
Note: Test report available upon request.



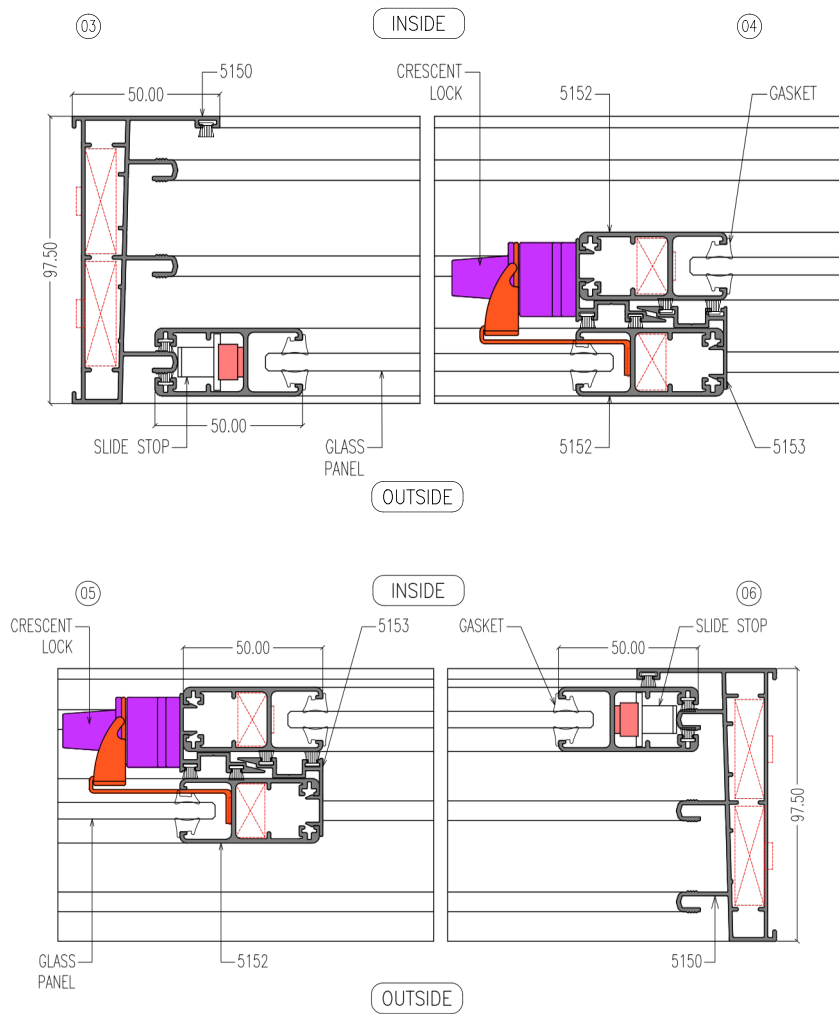
Typical Assembly Details



Typical Assembly Details

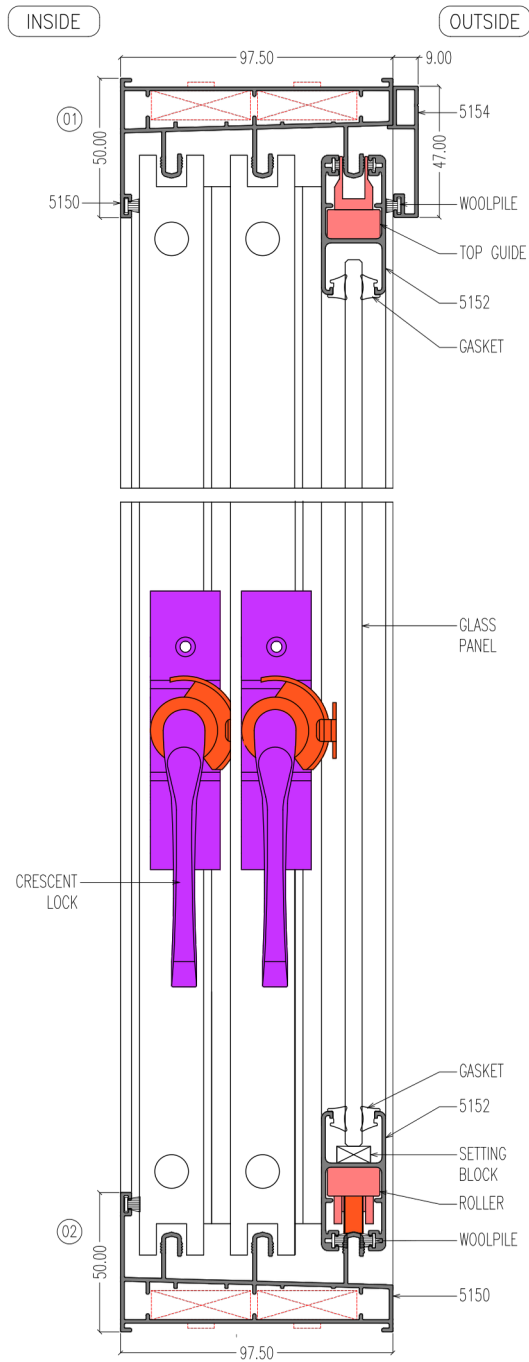


ELEVATION



HORIZONTAL SECTIONS

Typical Assembly Details



VERTICAL SECTIONS

Wind Load Chart

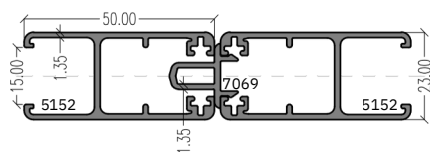
BUTTING STILE

Assembly of Sections 5152x2 & 7069

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 4.3 cm⁴

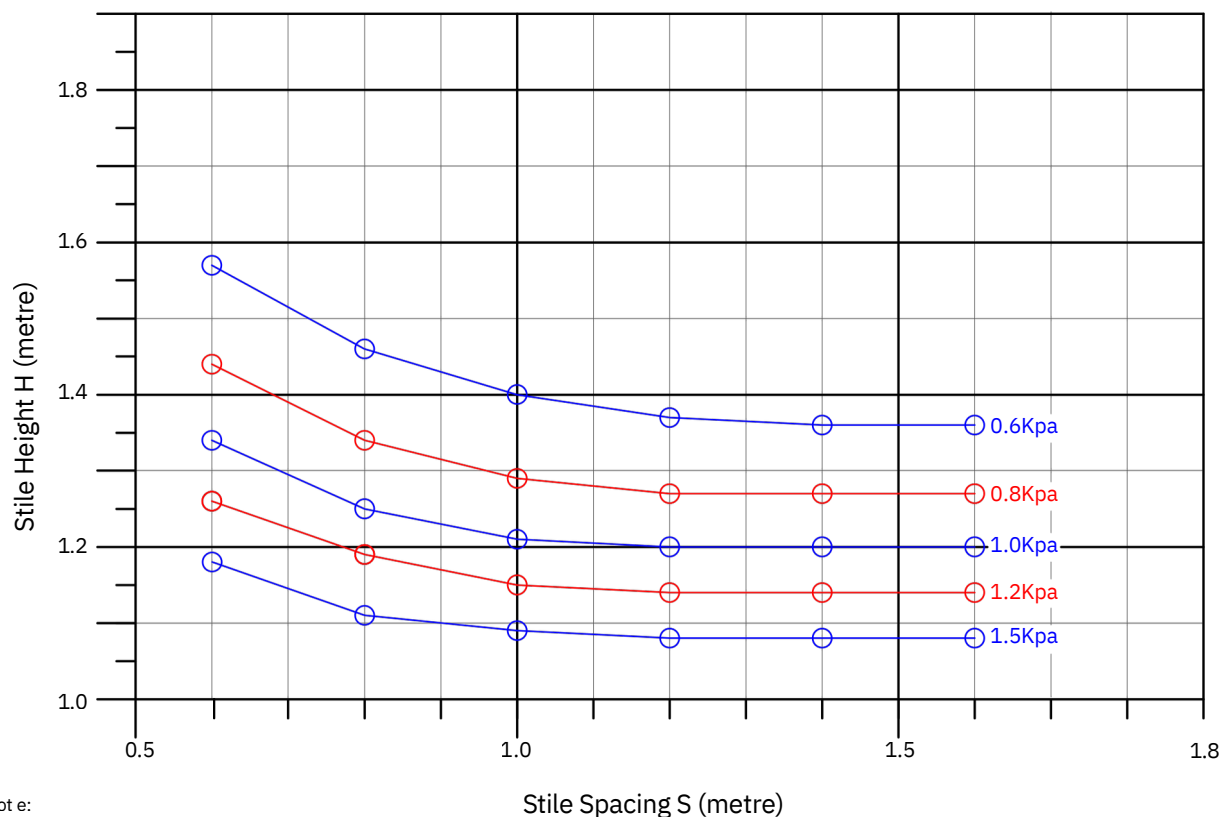
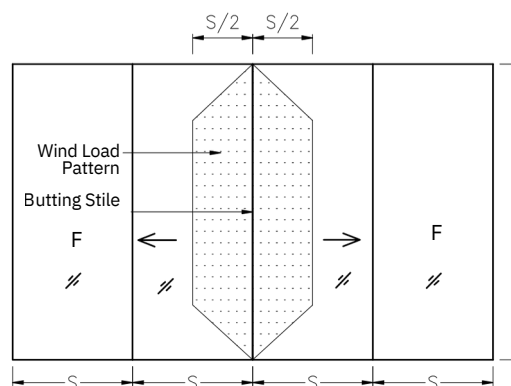
Overall moment of Resistance MR_{xx} : 314 n-m



Not e:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25 x 67 Mpa
Deflection limit : $\frac{Span}{175}$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of sliding window:



Not e:

- Deflection limit governs
- ◇ Moment of resistance governs

:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

Wind Load Chart

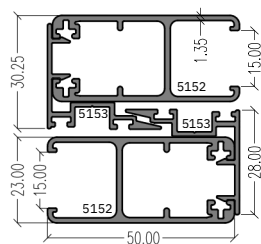
BUTTING STILE

Assembly of Sections 5152x2 & 5153x2

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 6.8 cm⁴

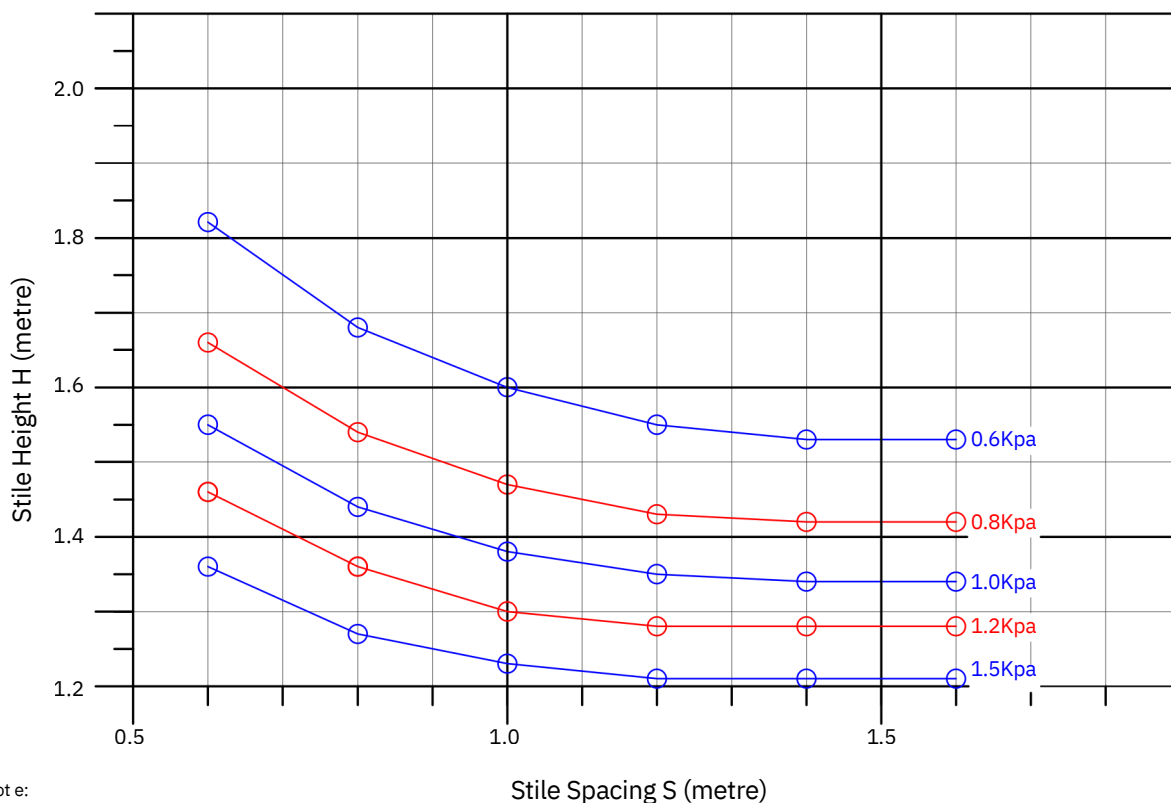
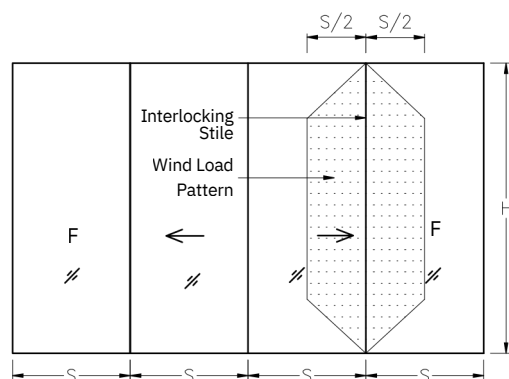
Overall moment of Resistance MR_{xx} : 366 n-m



Not e:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25 x 67 Mpa
Deflection limit : $\frac{Span}{175}$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of sliding window:



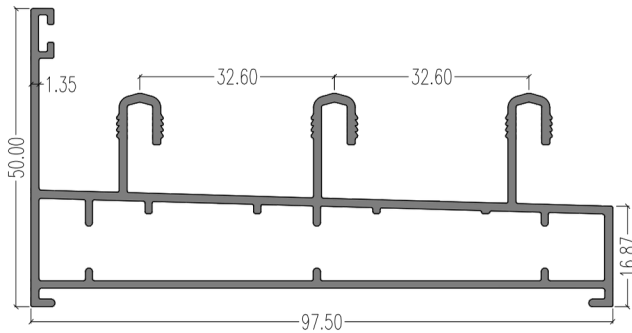
Not e:

- Deflection limit governs
- ◇ Moment of resistance governs

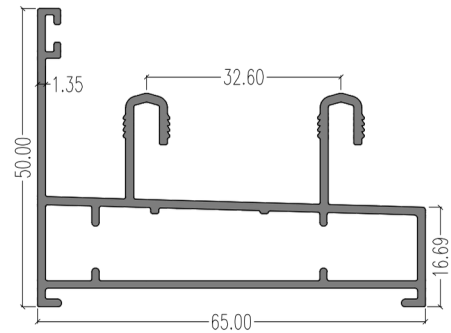
- Buckling has not been taken into account in this chart

- This windload chart is solely for reference only

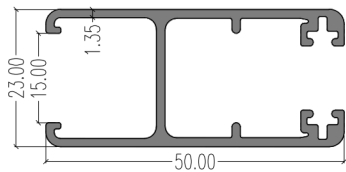
Sectional Details



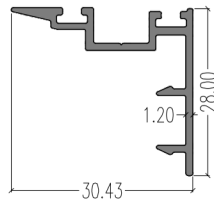
5150 (Outer)
LW : 1.343 kg/m
AP : 500.33 mm



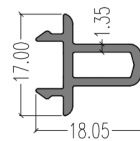
5151 (Outer)
LW : 0.978 kg/m
AP : 379.30 mm



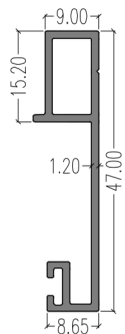
5152 (Inner)
LW : 0.612 kg/m
AP : 302.00 mm
Ixx : 2.110 cm⁴
Iyy : 4.977 cm⁴



5153 (Interlock)
LW : 0.270 kg/m
AP : 164.88 mm
Ixx : 0.631 cm⁴
Iyy : 0.827 cm⁴



7069 (Mid-joint)
LW : 0.204 kg/m
AP : 73.66 mm
Ixx : 0.107 cm⁴
Iyy : 0.177 cm⁴



5154 (Cover Outer)
LW : 0.315 kg/m
AP : 154.31 mm

Accessories

Crescent Lock



Roller



Woolpile



Corner Bracket



Side Top



Top Guide



**LB
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Now available at:



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MS ISO 9001:2015 Cert. No. QMS 00216