



A Z U M A
Design



AS5039 TEST REPORT

Hinged door

Azuma Design Pty Ltd

Address: 38-44 Redfern Street, Wetherill Park NSW 2164 Australia PH: 61(02)9604 0255

HINGED SECURITY SCREEN DOOR

Manufactured By SecureView

Tested By Rob Irwin Date 26/2/15

Certified By Rob Irwin Date 26/2/15

Witnessed By Ash Horne Date 26/2/15

Details of Test Door

Sample Identification Not provided

Test Door Size (mm) 2195mm (H) x 1015mm (W)

Gap Between Door and Mounting frame: Lock Side (mm) 2.8mm
 Hinge Side (mm) 2.8mm

Lock Description Austral 3 point locking

Hinge Description Unmarked 75mm hinges

Type of Material Used in Mounting Frame Radiata Pine

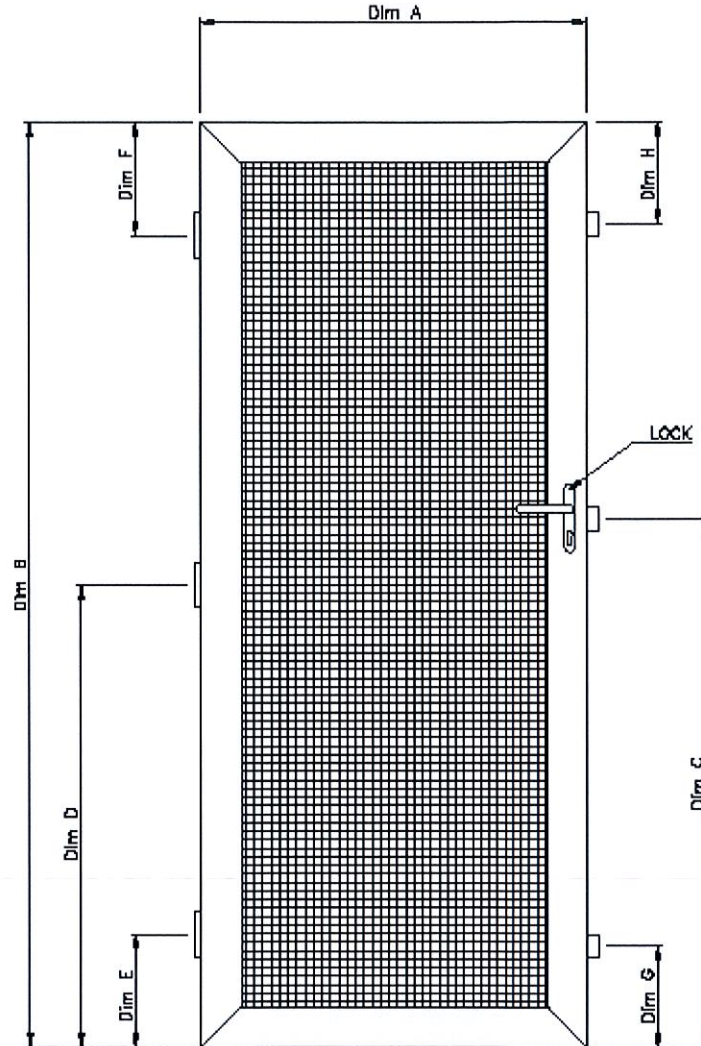
Constructional Description of Test Door Hinged security door with woven stainless steel infill, 3 point locking mounted in a timber frame.

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HINGED SECURITY SCREED DOOR

Dimensions (in mm):



Dimension A	866mm	Dimension F	170mm
Dimension B	2038mm	Dimension G	260mm
Dimension C	1145mm	Dimension H	210mm
Dimension D	1000mm		
Dimension E	175mm		

Left or Right Hand Operation

Right

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HINGED SECURITY SCREEN DOOR

Details of Door Infill

Manufactured By	<u>SecureView</u>	Type	<u>III</u>
Material Thickness	<u>0.8mm</u>	Spacing	<u>1.6mm</u>
Aperture	<u>1.6mm</u>	Material Type and Grade	<u>Stainless Steel</u>

Dynamic Impact Test

Check weight of Impact bag: 44.120 kilograms

Drop Height of Impact bag for 100 J blow: (using formula)

w = weight of bag in kilograms

h = drop height in millimeters

Observations

Standard	<u>25mm</u>
Impact 1	<u>42mm</u>
Impact 2	<u>46mm</u>
Impact 3	<u>62mm</u>
Impact 4	<u>67mm</u>
Impact 5	<u>55mm</u>
Result	<u>Pass</u>
Remarks	<u>Nil</u>

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HINGED SECURITY SCREEN DOOR

Lock and Hinge Lever Test

LOCATION	PASS	FAIL	FORCE (N)	REMARKS
CENTRE LOCK 2	✓		300.5	
BOTTOM LOCK 3	✓		733.3	
TOP LOCK 1	✓		1274.5	
CENTRE HINGE 2	✓		379.4	
BOTTOM HINGE 1	✓		570.5	
TOP HINGE 3	✓		724.1	

Result Pass

Remarks Nil

Note Please see following pages for further detail.

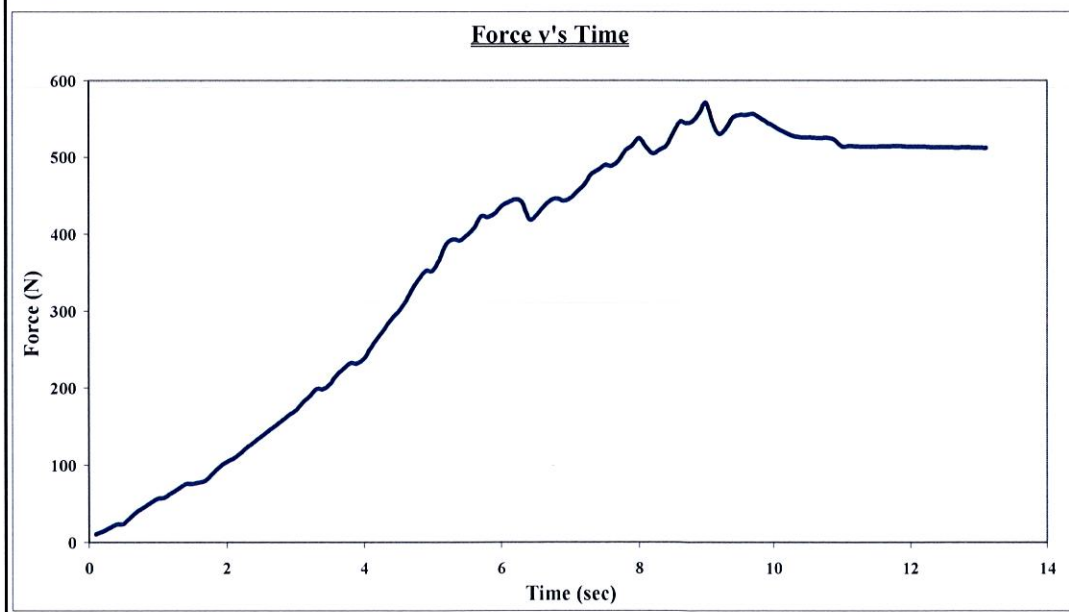
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AZUMA TESTING REPORT #AZT0016.15

AZT No:	AZT0016.15
Date of Test:	26-February-2015
Australian Standard:	AS 5039
Customer:	SecureView
Product Tested:	Bottom Hinge
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by aparatus. Record results of test.
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test aparatus and winch Azuma force gauge and readout Azuma lap top
Result Pass or Fail:	PASS
Maximum Force Achieved:	570.5 N

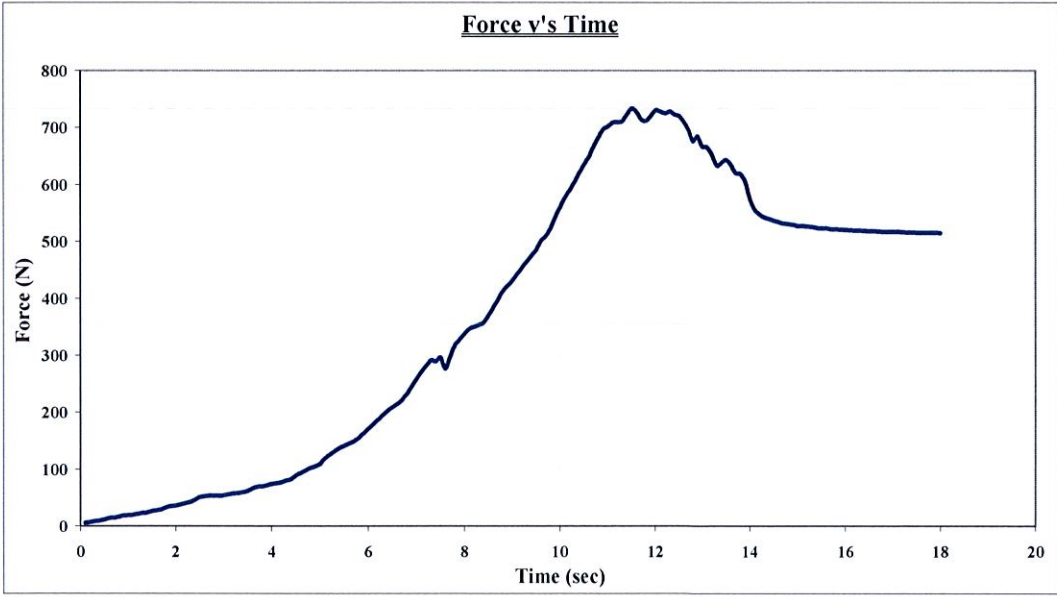
Graph



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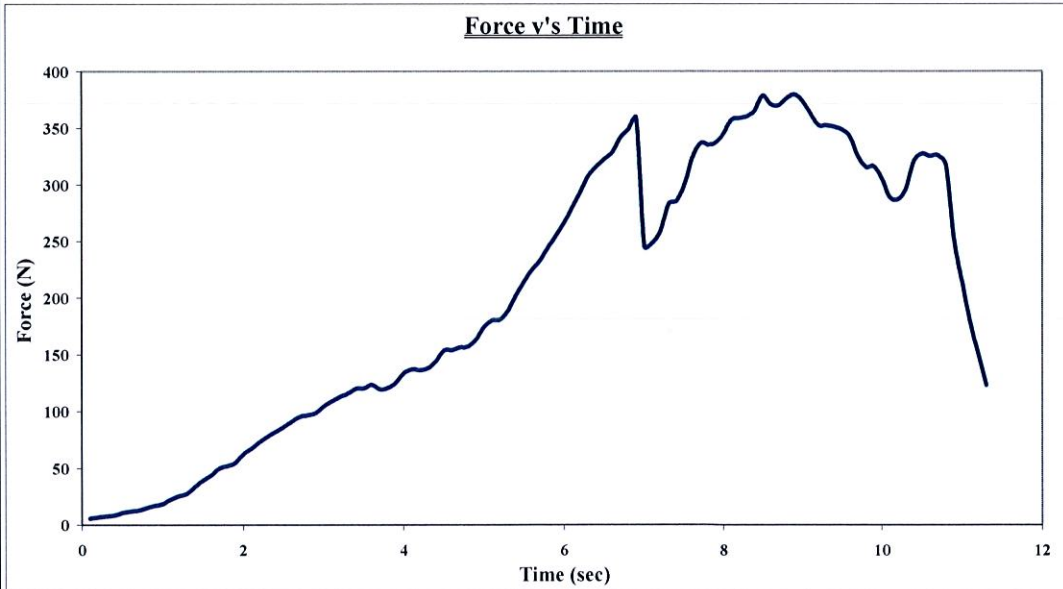
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AZT No:	AZT0016.15																						
Date of Test:	26-February-2015																						
Australian Standard:	AS 5039																						
Customer:	SecureView																						
Product Tested:	Bottom Lock																						
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by aparatus. Record results of test.																						
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test aparatus and winch Azuma force gauge and readout Azuma lap top																						
Result Pass or Fail:	PASS																						
Maximum Force Achieved:	733.3 N																						
Graph	<p style="text-align: center;">Force v's Time</p>  <table border="1"> <caption>Approximate data points from the Force v's Time graph</caption> <thead> <tr> <th>Time (sec)</th> <th>Force (N)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>2</td><td>50</td></tr> <tr><td>4</td><td>100</td></tr> <tr><td>6</td><td>180</td></tr> <tr><td>8</td><td>350</td></tr> <tr><td>10</td><td>550</td></tr> <tr><td>12</td><td>733.3</td></tr> <tr><td>14</td><td>600</td></tr> <tr><td>16</td><td>520</td></tr> <tr><td>18</td><td>500</td></tr> </tbody> </table>	Time (sec)	Force (N)	0	0	2	50	4	100	6	180	8	350	10	550	12	733.3	14	600	16	520	18	500
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Date of Test:	26-February-2015																				
Australian Standard:	AS 5039																				
Customer:	SecureView																				
Product Tested:	Centre Hinge																				
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by aparatus. Record results of test.																				
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test aparatus and winch Azuma force gauge and readout Azuma lap top																				
Result Pass or Fail:	PASS																				
Maximum Force Achieved:	379.4 N																				
Graph	<p style="text-align: center;">Force v's Time</p>  <table border="1"> <caption>Approximate data points from the Force v's Time graph</caption> <thead> <tr> <th>Time (sec)</th> <th>Force (N)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>2</td><td>50</td></tr> <tr><td>4</td><td>120</td></tr> <tr><td>6</td><td>250</td></tr> <tr><td>7</td><td>350</td></tr> <tr><td>7.5</td><td>250</td></tr> <tr><td>8.5</td><td>379.4</td></tr> <tr><td>10</td><td>300</td></tr> <tr><td>11.5</td><td>120</td></tr> </tbody> </table>	Time (sec)	Force (N)	0	0	2	50	4	120	6	250	7	350	7.5	250	8.5	379.4	10	300	11.5	120
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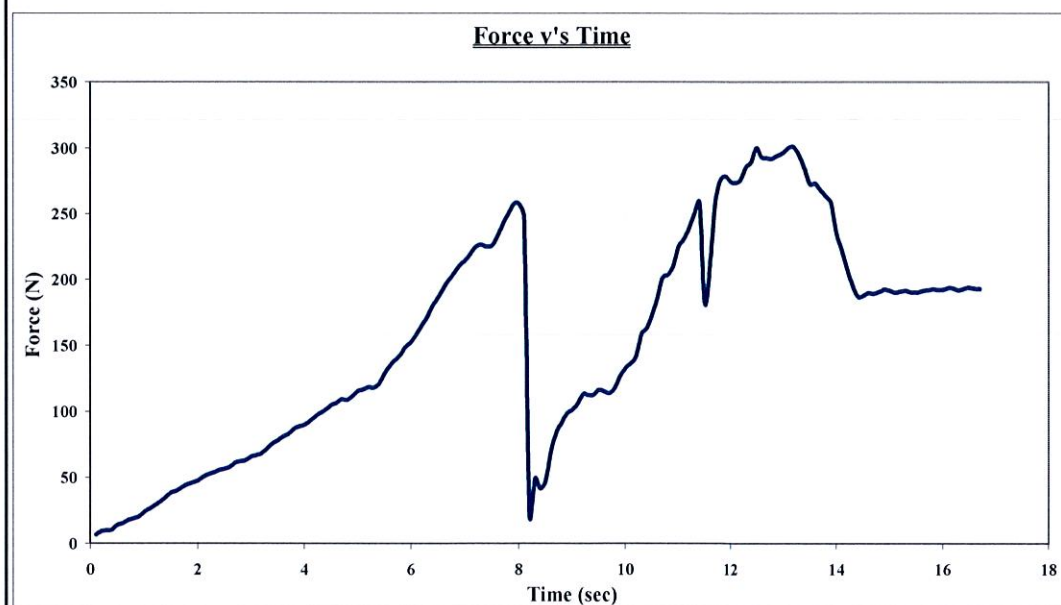
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Date of Test:	26-February-2015
Australian Standard:	AS 5039
Customer:	SecureView
Product Tested:	Centre Lock
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by aparatus. Record results of test.
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test aparatus and winch Azuma force gauge and readout Azuma lap top
Result Pass or Fail:	PASS
Maximum Force Achieved:	300.5 N

Graph



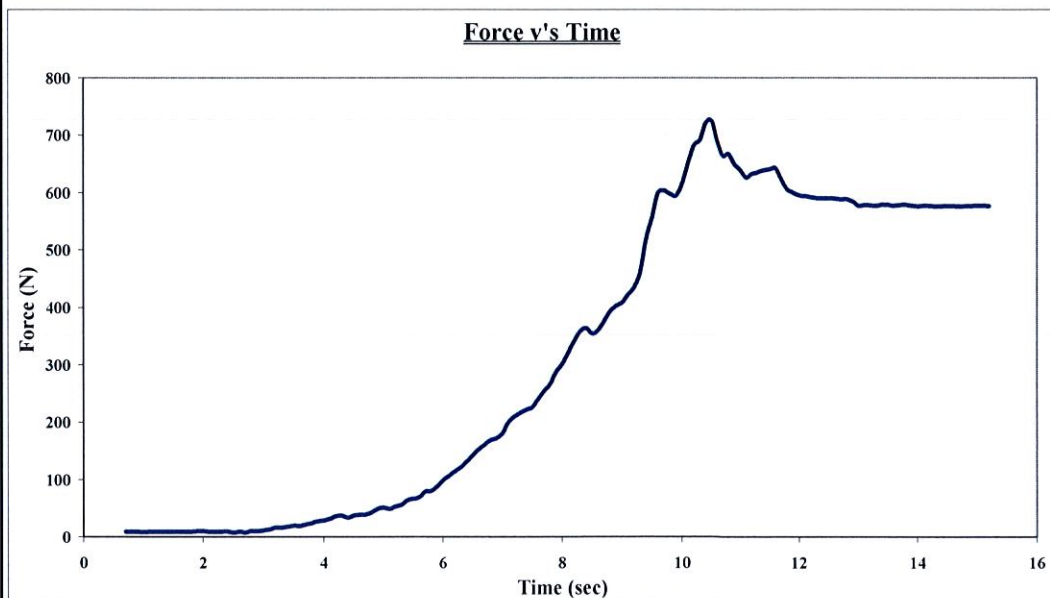
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AZT No:	AZT0016.15
Date of Test:	26-February-2015
Australian Standard:	AS 5039
Customer:	SecureView
Product Tested:	Top Hinge
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by aparatus. Record results of test.
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test aparatus and winch Azuma force gauge and readout Azuma lap top
Result Pass or Fail:	PASS
Maximum Force Achieved:	724.1 N

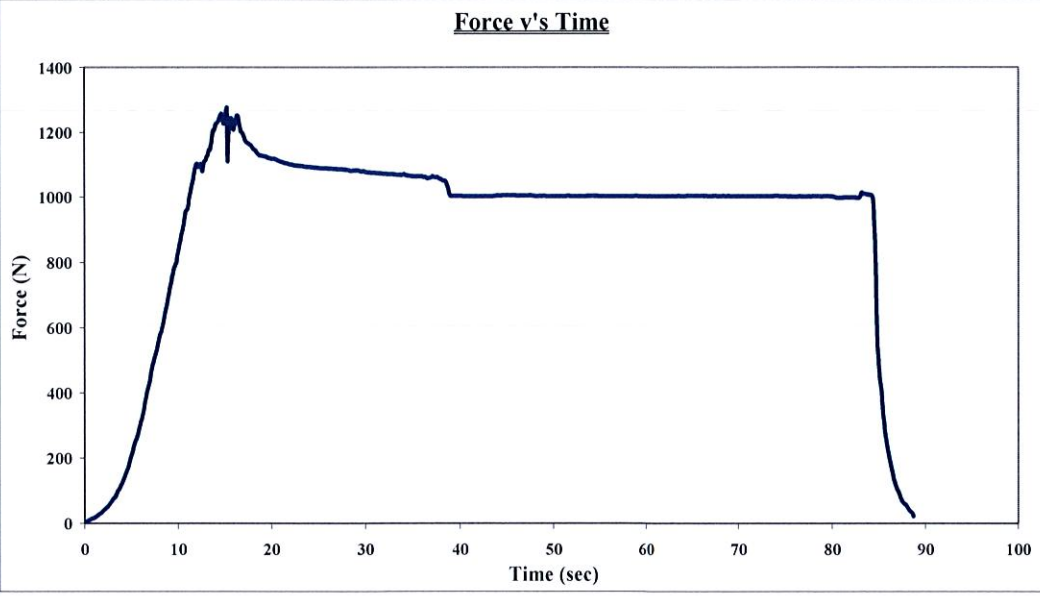
Graph



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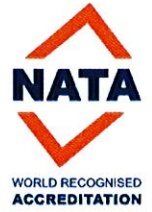
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Date of Test:	26-February-2015																												
Australian Standard:	AS 5039																												
Customer:	SecureView																												
Product Tested:	Top lock																												
Description of Test:	Mount test specimen into security door test rig. Set up Azuma jemmy test apparatus as specified by AS5041. Attach Azuma force gauge to winch cable and connect to lap top. Wind winch until failure or 80 degrees rotation has been achieved by apparatus. Record results of test.																												
Test Equipment Used:	Azuma security door and window grille test rig Azuma jemmy test apparatus and winch Azuma force gauge and readout Azuma lap top																												
Result Pass or Fail:	PASS																												
Maximum Force Achieved:	1274.5 N																												
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NATA Accredited Laboratory No: 15147

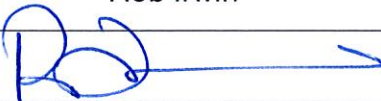
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HINGED SECURITY SCREEN DOOR

CONCLUSION

<u>Test</u>	<u>Result</u>
Dynamic Impact test:	Pass
Lock and Hinge lever test:	Pass

SIGNATORY NAME _____ Rob Irwin

SIGNATURE _____ 

DATE _____ 26/2/2015

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