

Hudson Series® Acoustic Louvre

Louvreclad Hudson Series® offers acoustic louvres with varying depths for optimal noise reduction and rain defence. Options range from 100mm to 600mm deep, ideal for projects requiring effective noise control and ventilation.

Features

PERFORMANCE

Superior Noise Reduction

Acoustic louvres insulated with glass wool for effective noise control. Available in depths from 100mm to 600mm, tested to AS 1191:2002 and AS 4740:2000 standards.

AESTHETICS

Custom Solutions

Ideal for air-conditioning intakes, generators, and plant rooms. Engineered for incidental live load, offering optimal ventilation and weather protection while reducing noise transmission.

DESIGN

Versatile Design

Provides free open area from 17% to 47%. Class B to Class C rain defence with aerodynamics ranging from Class 1 to Class 3. Available in multiple configurations for varied acoustic requirements.

Specifications

AUSTRALIAN STANDARDS

AS 1191:2002 & AS 4740:2000

ORIENTATION

Horizontal

or

Vertical

MATERIAL

Colorbond® Steel, Aluminium

FINISH

Powder Coated, Anodised,
Colorbond®

ACCESSORIES

Bird/vermin mesh Insect mesh

INSTALLATION

Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad.



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

Explore the profile options

Hudson Series® 100

100mm deep single-stage acoustic louvres



12
RW ACOUSTIC RATING

17 %
FREE OPEN AREA

2000 mm
MAX SPAN

Class 1
AERODYNAMICS

100 mm
DEPTH

19kg/m2
WEIGHT

Class C
RAIN RESISTANCE

180
PITCH

Horizontal, Vertical
ORIENTATION

Hudson Series® 200

200mm deep single-stage acoustic louvres



13
RW ACOUSTIC RATING

33 %
FREE OPEN AREA

2000 mm
MAX SPAN

Class 1
AERODYNAMICS

200 mm
DEPTH

40kg/m2
WEIGHT

0.88 CD
DISCHARGE COEFFICIENT

200
PITCH

Horizontal, Vertical
ORIENTATION

Hudson Series® 200 Chevron

200mm deep two-stage chevron acoustic louvres



18
RW ACOUSTIC RATING

0.16 m2
EFFECTIVE AERODYNAMIC AREA

200 mm
DEPTH

28kg/m2
WEIGHT

Class 2
AERODYNAMICS

Class C
RAIN RESISTANCE

180
PITCH

Horizontal, Vertical
ORIENTATION

0.67 CD
DISCHARGE COEFFICIENT

22 %
FREE OPEN AREA

2500 mm
MAX SPAN

Hudson Series® 300

300mm deep single-stage acoustic louvres



18
RW ACOUSTIC RATING

0.31 m2
EFFECTIVE AERODYNAMIC AREA

47 %
FREE OPEN AREA

2500 mm
MAX SPAN

Class 1
AERODYNAMICS

Class C
RAIN RESISTANCE

300 mm
DEPTH

57kg/m2
WEIGHT

0.86 CD
DISCHARGE COEFFICIENT

91 %
EFFECTIVE RAIN RESISTANCE

200
PITCH

Horizontal, Vertical
ORIENTATION



Made to Perform

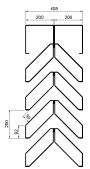
1300 165 678

sales@louvreclad.com

louvreclad.com

Hudson Series® 400 Chevron

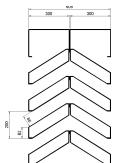
400mm deep two-stage
chevron acoustic louvres



21	Class 1	0.75 CD
RW ACOUSTIC RATING	AERODYNAMICS	DISCHARGE COEFFICIENT
Class B	96 %	33 %
RAIN RESISTANCE	EFFECTIVE RAIN RESISTANCE	FREE OPEN AREA
400 mm	200	2000 mm
DEPTH	PITCH	MAX SPAN
34kg/m2	Horizontal, Vertical	
WEIGHT	ORIENTATION	

Hudson Series® 600 Chevron

600mm deep two-stage
chevron acoustic louvres



21	0.77 CD	47 %
RW ACOUSTIC RATING	DISCHARGE COEFFICIENT	FREE OPEN AREA
600 mm	200	2500 mm
DEPTH	PITCH	MAX SPAN
71kg/m2	Horizontal, Vertical	
WEIGHT	ORIENTATION	



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

AS 4740 Rain Resistance

Hudson Series® 100

Rain penetration classification at each core velocity.

Ventilator core velocity (m/s)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	100%	98%	95%	92%	87%	84%
Classification	Class A	Class A	Class A	Class B	Class B	Class C	Class C	Class C

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 95% in Class C rating.

Hudson Series® 200 Chevron

Rain penetration classification at each core velocity.

Ventilator core velocity (m/s)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	100%	97%	94%	90%	89%	87%
Classification	Class A	Class A	Class A	Class B	Class C	Class C	Class C	Class C

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 95% in Class C rating.

Hudson Series® 300

Rain penetration classification at each core velocity.

Ventilator core velocity (m/s)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	99%	97%	96%	94%	89%	86%	84%	82%
Classification	Class A	Class B	Class B	Class C				

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 91% in Class C rating.

Hudson Series® 400 Chevron

Rain penetration classification at each core velocity.

Ventilator core velocity (m/s)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	100%	100%	98%	96%	90%	83%
Classification	Class A	Class A	Class A	Class A	Class B	Class B	Class C	Class C

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 96% in Class B rating.



Hudson Series® 100 Acoustic Louvre

DAY DESIGN		ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203D																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>3</td><td rowspan="3">4</td><td>9</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td rowspan="3">5</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>6</td><td>12</td></tr> <tr><td>400</td><td>6</td><td rowspan="3">8</td><td>12</td></tr> <tr><td>500</td><td>8</td><td>14</td></tr> <tr><td>630</td><td>9</td><td>15</td></tr> <tr><td>800</td><td>11</td><td rowspan="3">12</td><td>17</td></tr> <tr><td>1000</td><td>12</td><td>18</td></tr> <tr><td>1250</td><td>14</td><td>20</td></tr> <tr><td>1600</td><td>15</td><td rowspan="3">16</td><td>21</td></tr> <tr><td>2000</td><td>16</td><td>22</td></tr> <tr><td>2500</td><td>17</td><td>23</td></tr> <tr><td>3150</td><td>16</td><td rowspan="3">15</td><td>22</td></tr> <tr><td>4000</td><td>15</td><td>21</td></tr> <tr><td>5000</td><td>14</td><td>20</td></tr> </tbody> </table>				Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	3	4	9	125	5	11	160	4	10	200	5	5	11	250	5	11	315	6	12	400	6	8	12	500	8	14	630	9	15	800	11	12	17	1000	12	18	1250	14	20	1600	15	16	21	2000	16	22	2500	17	23	3150	16	15	22	4000	15	21	5000	14	20
Insertion Loss																																																																							
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																				
100	3	4	9																																																																				
125	5		11																																																																				
160	4		10																																																																				
200	5	5	11																																																																				
250	5		11																																																																				
315	6		12																																																																				
400	6	8	12																																																																				
500	8		14																																																																				
630	9		15																																																																				
800	11	12	17																																																																				
1000	12		18																																																																				
1250	14		20																																																																				
1600	15	16	21																																																																				
2000	16		22																																																																				
2500	17		23																																																																				
3150	16	15	22																																																																				
4000	15		21																																																																				
5000	14		20																																																																				
<p>Test Specimen: Hudson 100 Series Acoustic Louvre</p> <p>Australian Standards: Measured according to AS 1191-2002</p> <p>Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 100 mm (D)</p> <p>Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW</p> <p>Instrumentation:</p> <ul style="list-style-type: none"> - Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) - Brüel and Kjær Cathode Follower type 2639 - Brüel and Kjær Cathode Follower type 2669 - Brüel and Kjær Microphone type 4144 - Brüel and Kjær Microphone type 4179 - Brüel and Kjær Sound Level Calibrator type 4231 - Yamaha Professional Sound Sources type S50 																																																																							
<p>100mm Hudson® Series (Single Panel) Acoustic Properties</p> <p>Decibel (dB)</p> <p>Frequency (Hz)</p> <p>Insertion Loss</p> <p>Noise Reduction</p>																																																																							
<p>Date of Test: Thursday, 20 August 2009 Project Number: 4203D</p> <p>Test Engineer: Alex Li, BE(Mech) Hons For and on behalf of Day Design Pty Ltd</p> <p></p>																																																																							



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

Hudson Series® 200 Acoustic Louvre

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203B																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>2</td><td rowspan="3">4</td><td>8</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td rowspan="3">6</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>7</td><td>13</td></tr> <tr><td>400</td><td>8</td><td rowspan="3">10</td><td>14</td></tr> <tr><td>500</td><td>9</td><td>15</td></tr> <tr><td>630</td><td>12</td><td>18</td></tr> <tr><td>800</td><td>13</td><td rowspan="3">14</td><td>19</td></tr> <tr><td>1000</td><td>14</td><td>20</td></tr> <tr><td>1250</td><td>14</td><td>20</td></tr> <tr><td>1600</td><td>15</td><td rowspan="3">15</td><td>21</td></tr> <tr><td>2000</td><td>16</td><td>22</td></tr> <tr><td>2500</td><td>15</td><td>21</td></tr> <tr><td>3150</td><td>14</td><td rowspan="3">13</td><td>20</td></tr> <tr><td>4000</td><td>13</td><td>19</td></tr> <tr><td>5000</td><td>12</td><td>18</td></tr> </tbody> </table>			Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	2	4	8	125	5	11	160	4	10	200	5	6	11	250	5	11	315	7	13	400	8	10	14	500	9	15	630	12	18	800	13	14	19	1000	14	20	1250	14	20	1600	15	15	21	2000	16	22	2500	15	21	3150	14	13	20	4000	13	19	5000	12	18
Insertion Loss																																																																						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																			
100	2	4	8																																																																			
125	5		11																																																																			
160	4		10																																																																			
200	5	6	11																																																																			
250	5		11																																																																			
315	7		13																																																																			
400	8	10	14																																																																			
500	9		15																																																																			
630	12		18																																																																			
800	13	14	19																																																																			
1000	14		20																																																																			
1250	14		20																																																																			
1600	15	15	21																																																																			
2000	16		22																																																																			
2500	15		21																																																																			
3150	14	13	20																																																																			
4000	13		19																																																																			
5000	12		18																																																																			
<p>Test Specimen: Hudson 200 Series Acoustic Louvre</p> <p>Australian Standards: Measured according to AS 1191-2002</p> <p>Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 200 mm (D)</p> <p>Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW</p> <p>Instrumentation:</p> <ul style="list-style-type: none"> - Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) - Brüel and Kjær Cathode Follower type 2639 - Brüel and Kjær Cathode Follower type 2669 - Brüel and Kjær Microphone type 4144 - Brüel and Kjær Microphone type 4179 - Brüel and Kjær Sound Level Calibrator type 4231 - Yamaha Professional Sound Sources type S50 																																																																						
<p>200mm Hudson® Series (Single Panel) Acoustic Properties</p> <table border="1"> <caption>Data for 200mm Hudson® Series (Single Panel) Acoustic Properties</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Insertion Loss (dB)</th> <th>Noise Reduction (dB)</th> </tr> </thead> <tbody> <tr><td>100</td><td>2</td><td>8</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>7</td><td>13</td></tr> <tr><td>400</td><td>8</td><td>14</td></tr> <tr><td>500</td><td>9</td><td>15</td></tr> <tr><td>630</td><td>12</td><td>18</td></tr> <tr><td>800</td><td>13</td><td>19</td></tr> <tr><td>1000</td><td>14</td><td>20</td></tr> <tr><td>1250</td><td>14</td><td>20</td></tr> <tr><td>1600</td><td>15</td><td>21</td></tr> <tr><td>2000</td><td>16</td><td>22</td></tr> <tr><td>2500</td><td>15</td><td>21</td></tr> <tr><td>3150</td><td>14</td><td>20</td></tr> <tr><td>4000</td><td>13</td><td>19</td></tr> <tr><td>5000</td><td>12</td><td>18</td></tr> </tbody> </table>			Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)	100	2	8	125	5	11	160	4	10	200	5	11	250	5	11	315	7	13	400	8	14	500	9	15	630	12	18	800	13	19	1000	14	20	1250	14	20	1600	15	21	2000	16	22	2500	15	21	3150	14	20	4000	13	19	5000	12	18											
Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)																																																																				
100	2	8																																																																				
125	5	11																																																																				
160	4	10																																																																				
200	5	11																																																																				
250	5	11																																																																				
315	7	13																																																																				
400	8	14																																																																				
500	9	15																																																																				
630	12	18																																																																				
800	13	19																																																																				
1000	14	20																																																																				
1250	14	20																																																																				
1600	15	21																																																																				
2000	16	22																																																																				
2500	15	21																																																																				
3150	14	20																																																																				
4000	13	19																																																																				
5000	12	18																																																																				
<p>Date of Test: Thursday, 20 August 2009 Project Number: 4203B</p> <p>Test Engineer: Alex Li, BE(Mech) Hons For and on behalf of Day Design Pty Ltd</p> <p></p>																																																																						



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203E																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>4</td><td rowspan="3">5</td><td>10</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td rowspan="3">6</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>8</td><td>14</td></tr> <tr><td>400</td><td>12</td><td rowspan="3">15</td><td>18</td></tr> <tr><td>500</td><td>15</td><td>21</td></tr> <tr><td>630</td><td>18</td><td>24</td></tr> <tr><td>800</td><td>19</td><td rowspan="3">20</td><td>25</td></tr> <tr><td>1000</td><td>20</td><td>26</td></tr> <tr><td>1250</td><td>23</td><td>29</td></tr> <tr><td>1600</td><td>27</td><td rowspan="3">28</td><td>33</td></tr> <tr><td>2000</td><td>28</td><td>34</td></tr> <tr><td>2500</td><td>29</td><td>35</td></tr> <tr><td>3150</td><td>28</td><td rowspan="3">28</td><td>34</td></tr> <tr><td>4000</td><td>27</td><td>33</td></tr> <tr><td>5000</td><td>29</td><td>35</td></tr> </tbody> </table>			Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	4	5	10	125	5	11	160	4	10	200	5	6	11	250	5	11	315	8	14	400	12	15	18	500	15	21	630	18	24	800	19	20	25	1000	20	26	1250	23	29	1600	27	28	33	2000	28	34	2500	29	35	3150	28	28	34	4000	27	33	5000	29	35
Insertion Loss																																																																						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																			
100	4	5	10																																																																			
125	5		11																																																																			
160	4		10																																																																			
200	5	6	11																																																																			
250	5		11																																																																			
315	8		14																																																																			
400	12	15	18																																																																			
500	15		21																																																																			
630	18		24																																																																			
800	19	20	25																																																																			
1000	20		26																																																																			
1250	23		29																																																																			
1600	27	28	33																																																																			
2000	28		34																																																																			
2500	29		35																																																																			
3150	28	28	34																																																																			
4000	27		33																																																																			
5000	29		35																																																																			
<p>Test Specimen: Hudson 200 Chevron Series Acoustic Louvre (2 x Hudson 100 Series Louvres back-to-back)</p> <p>Australian Standards: Measured according to AS 1191-2002</p> <p>Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 200 mm (D)</p> <p>Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW</p> <p>Instrumentation: - Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) - Brüel and Kjær Cathode Follower type 2639 - Brüel and Kjær Cathode Follower type 2669 - Brüel and Kjær Microphone type 4144 - Brüel and Kjær Microphone type 4179 - Brüel and Kjær Sound Level Calibrator type 4231 - Yamaha Professional Sound Sources type S50</p>																																																																						
<p>200mm Hudson® Series (Two 100mm Panels) Acoustic Properties</p> <table border="1"> <caption>Data points from the graph</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Insertion Loss (dB)</th> <th>Noise Reduction (dB)</th> </tr> </thead> <tbody> <tr><td>100</td><td>4</td><td>10</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>8</td><td>14</td></tr> <tr><td>400</td><td>12</td><td>18</td></tr> <tr><td>500</td><td>15</td><td>21</td></tr> <tr><td>630</td><td>18</td><td>24</td></tr> <tr><td>800</td><td>19</td><td>25</td></tr> <tr><td>1000</td><td>20</td><td>26</td></tr> <tr><td>1250</td><td>23</td><td>29</td></tr> <tr><td>1600</td><td>27</td><td>33</td></tr> <tr><td>2000</td><td>28</td><td>34</td></tr> <tr><td>2500</td><td>29</td><td>35</td></tr> <tr><td>3150</td><td>28</td><td>34</td></tr> <tr><td>4000</td><td>27</td><td>33</td></tr> <tr><td>5000</td><td>29</td><td>35</td></tr> </tbody> </table>			Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)	100	4	10	125	5	11	160	4	10	200	5	11	250	5	11	315	8	14	400	12	18	500	15	21	630	18	24	800	19	25	1000	20	26	1250	23	29	1600	27	33	2000	28	34	2500	29	35	3150	28	34	4000	27	33	5000	29	35											
Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)																																																																				
100	4	10																																																																				
125	5	11																																																																				
160	4	10																																																																				
200	5	11																																																																				
250	5	11																																																																				
315	8	14																																																																				
400	12	18																																																																				
500	15	21																																																																				
630	18	24																																																																				
800	19	25																																																																				
1000	20	26																																																																				
1250	23	29																																																																				
1600	27	33																																																																				
2000	28	34																																																																				
2500	29	35																																																																				
3150	28	34																																																																				
4000	27	33																																																																				
5000	29	35																																																																				
<p>Date of Test: Friday, 21 August 2009 Project Number: 4203E</p> <p>Test Engineer: Alex Li, BE(Mech) Hons For and on behalf of Day Design Pty Ltd</p> <p><i>[Signature]</i></p>																																																																						



Hudson Series® 300 Acoustic Louvre

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203F																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>3</td><td rowspan="3">4</td><td>9</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td rowspan="3">6</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>8</td><td>14</td></tr> <tr><td>400</td><td>12</td><td rowspan="3">14</td><td>18</td></tr> <tr><td>500</td><td>15</td><td>21</td></tr> <tr><td>630</td><td>17</td><td>23</td></tr> <tr><td>800</td><td>18</td><td rowspan="3">20</td><td>24</td></tr> <tr><td>1000</td><td>20</td><td>26</td></tr> <tr><td>1250</td><td>23</td><td>29</td></tr> <tr><td>1600</td><td>27</td><td rowspan="3">27</td><td>33</td></tr> <tr><td>2000</td><td>28</td><td>34</td></tr> <tr><td>2500</td><td>28</td><td>34</td></tr> <tr><td>3150</td><td>28</td><td rowspan="3">28</td><td>34</td></tr> <tr><td>4000</td><td>27</td><td>33</td></tr> <tr><td>5000</td><td>29</td><td>35</td></tr> </tbody> </table>			Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	3	4	9	125	5	11	160	4	10	200	5	6	11	250	5	11	315	8	14	400	12	14	18	500	15	21	630	17	23	800	18	20	24	1000	20	26	1250	23	29	1600	27	27	33	2000	28	34	2500	28	34	3150	28	28	34	4000	27	33	5000	29	35
Insertion Loss																																																																						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																			
100	3	4	9																																																																			
125	5		11																																																																			
160	4		10																																																																			
200	5	6	11																																																																			
250	5		11																																																																			
315	8		14																																																																			
400	12	14	18																																																																			
500	15		21																																																																			
630	17		23																																																																			
800	18	20	24																																																																			
1000	20		26																																																																			
1250	23		29																																																																			
1600	27	27	33																																																																			
2000	28		34																																																																			
2500	28		34																																																																			
3150	28	28	34																																																																			
4000	27		33																																																																			
5000	29		35																																																																			
Test Specimen: Hudson 300 Series Acoustic Louvre																																																																						
Australian Standards: Measured according to AS 1191-2002																																																																						
																																																																						
Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 300 mm (D)																																																																						
Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW																																																																						
Instrumentation: <ul style="list-style-type: none"> Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) Brüel and Kjær Cathode Follower type 2639 Brüel and Kjær Cathode Follower type 2669 Brüel and Kjær Microphone type 4144 Brüel and Kjær Microphone type 4179 Brüel and Kjær Sound Level Calibrator type 4231 Yamaha Professional Sound Sources type S50 																																																																						
<p>300mm Hudson® Series (Single Panel) Acoustic Properties</p>  <table border="1"> <caption>Estimated data points from the graph</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Insertion Loss (dB)</th> <th>Noise Reduction (dB)</th> </tr> </thead> <tbody> <tr><td>100</td><td>3</td><td>9</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>4</td><td>10</td></tr> <tr><td>200</td><td>5</td><td>11</td></tr> <tr><td>250</td><td>5</td><td>11</td></tr> <tr><td>315</td><td>8</td><td>14</td></tr> <tr><td>400</td><td>12</td><td>18</td></tr> <tr><td>500</td><td>15</td><td>21</td></tr> <tr><td>630</td><td>17</td><td>23</td></tr> <tr><td>800</td><td>18</td><td>24</td></tr> <tr><td>1000</td><td>20</td><td>26</td></tr> <tr><td>1250</td><td>23</td><td>29</td></tr> <tr><td>1600</td><td>27</td><td>33</td></tr> <tr><td>2000</td><td>28</td><td>34</td></tr> <tr><td>2500</td><td>28</td><td>34</td></tr> <tr><td>3150</td><td>28</td><td>34</td></tr> <tr><td>4000</td><td>27</td><td>33</td></tr> <tr><td>5000</td><td>29</td><td>35</td></tr> </tbody> </table>			Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)	100	3	9	125	5	11	160	4	10	200	5	11	250	5	11	315	8	14	400	12	18	500	15	21	630	17	23	800	18	24	1000	20	26	1250	23	29	1600	27	33	2000	28	34	2500	28	34	3150	28	34	4000	27	33	5000	29	35											
Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)																																																																				
100	3	9																																																																				
125	5	11																																																																				
160	4	10																																																																				
200	5	11																																																																				
250	5	11																																																																				
315	8	14																																																																				
400	12	18																																																																				
500	15	21																																																																				
630	17	23																																																																				
800	18	24																																																																				
1000	20	26																																																																				
1250	23	29																																																																				
1600	27	33																																																																				
2000	28	34																																																																				
2500	28	34																																																																				
3150	28	34																																																																				
4000	27	33																																																																				
5000	29	35																																																																				
<p>Date of Test: Friday, 21 August 2009 Project Number: 4203F</p> <p>Test Engineer: Alex Li, BE(Mech) Hons For and on behalf of Day Design Pty Ltd</p> <p></p>																																																																						



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

Hudson Series® 400 Chevron Louvre

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203C																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>4</td><td rowspan="3">4</td><td>10</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>5</td><td>11</td></tr> <tr><td>200</td><td>9</td><td rowspan="3">11</td><td>15</td></tr> <tr><td>250</td><td>10</td><td>16</td></tr> <tr><td>315</td><td>14</td><td>20</td></tr> <tr><td>400</td><td>16</td><td rowspan="3">18</td><td>22</td></tr> <tr><td>500</td><td>19</td><td>25</td></tr> <tr><td>630</td><td>22</td><td>28</td></tr> <tr><td>800</td><td>23</td><td rowspan="3">23</td><td>29</td></tr> <tr><td>1000</td><td>23</td><td>29</td></tr> <tr><td>1250</td><td>24</td><td>30</td></tr> <tr><td>1600</td><td>26</td><td rowspan="3">27</td><td>32</td></tr> <tr><td>2000</td><td>27</td><td>33</td></tr> <tr><td>2500</td><td>27</td><td>33</td></tr> <tr><td>3150</td><td>25</td><td rowspan="3">25</td><td>31</td></tr> <tr><td>4000</td><td>24</td><td>30</td></tr> <tr><td>5000</td><td>25</td><td>31</td></tr> </tbody> </table>			Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	4	4	10	125	5	11	160	5	11	200	9	11	15	250	10	16	315	14	20	400	16	18	22	500	19	25	630	22	28	800	23	23	29	1000	23	29	1250	24	30	1600	26	27	32	2000	27	33	2500	27	33	3150	25	25	31	4000	24	30	5000	25	31
Insertion Loss																																																																						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																			
100	4	4	10																																																																			
125	5		11																																																																			
160	5		11																																																																			
200	9	11	15																																																																			
250	10		16																																																																			
315	14		20																																																																			
400	16	18	22																																																																			
500	19		25																																																																			
630	22		28																																																																			
800	23	23	29																																																																			
1000	23		29																																																																			
1250	24		30																																																																			
1600	26	27	32																																																																			
2000	27		33																																																																			
2500	27		33																																																																			
3150	25	25	31																																																																			
4000	24		30																																																																			
5000	25		31																																																																			
<p>Test Specimen: Hudson 400 Chevron Series Acoustic Louvre (2 x Hudson 200 Series Louvres back-to-back)</p> <p>Australian Standards: Measured according to AS 1191-2002</p> <p>Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 400 mm (D)</p> <p>Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW</p> <p>Instrumentation:</p> <ul style="list-style-type: none"> - Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) - Brüel and Kjær Cathode Follower type 2639 - Brüel and Kjær Cathode Follower type 2669 - Brüel and Kjær Microphone type 4144 - Brüel and Kjær Microphone type 4179 - Brüel and Kjær Sound Level Calibrator type 4231 - Yamaha Professional Sound Sources type S50 																																																																						
<p>400mm Hudson® Series (Two 200mm Panels) Acoustic Properties</p> <table border="1"> <caption>Data points from the graph</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Insertion Loss (dB)</th> <th>Noise Reduction (dB)</th> </tr> </thead> <tbody> <tr><td>100</td><td>4</td><td>10</td></tr> <tr><td>125</td><td>5</td><td>11</td></tr> <tr><td>160</td><td>5</td><td>11</td></tr> <tr><td>200</td><td>9</td><td>15</td></tr> <tr><td>250</td><td>10</td><td>16</td></tr> <tr><td>315</td><td>14</td><td>20</td></tr> <tr><td>400</td><td>16</td><td>22</td></tr> <tr><td>500</td><td>19</td><td>25</td></tr> <tr><td>630</td><td>22</td><td>28</td></tr> <tr><td>800</td><td>23</td><td>29</td></tr> <tr><td>1000</td><td>23</td><td>29</td></tr> <tr><td>1250</td><td>24</td><td>30</td></tr> <tr><td>1600</td><td>26</td><td>32</td></tr> <tr><td>2000</td><td>27</td><td>33</td></tr> <tr><td>2500</td><td>27</td><td>33</td></tr> <tr><td>3150</td><td>25</td><td>31</td></tr> <tr><td>4000</td><td>24</td><td>30</td></tr> <tr><td>5000</td><td>25</td><td>31</td></tr> </tbody> </table>			Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)	100	4	10	125	5	11	160	5	11	200	9	15	250	10	16	315	14	20	400	16	22	500	19	25	630	22	28	800	23	29	1000	23	29	1250	24	30	1600	26	32	2000	27	33	2500	27	33	3150	25	31	4000	24	30	5000	25	31											
Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)																																																																				
100	4	10																																																																				
125	5	11																																																																				
160	5	11																																																																				
200	9	15																																																																				
250	10	16																																																																				
315	14	20																																																																				
400	16	22																																																																				
500	19	25																																																																				
630	22	28																																																																				
800	23	29																																																																				
1000	23	29																																																																				
1250	24	30																																																																				
1600	26	32																																																																				
2000	27	33																																																																				
2500	27	33																																																																				
3150	25	31																																																																				
4000	24	30																																																																				
5000	25	31																																																																				
<p>Date of Test: Thursday, 20 August 2009 Project Number: 4203C</p> <p>Test Engineer: <u>Alex Li, BE(Mech) Hons</u> For and on behalf of Day Design Pty Ltd</p> <p></p>																																																																						



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

Hudson Series® 600 Chevron Louvre

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203G																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Insertion Loss</th> </tr> <tr> <th>Frequency - Hz</th> <th>1/3 Octave</th> <th>1/1 Octave</th> <th>Noise Reduction</th> </tr> </thead> <tbody> <tr><td>100</td><td>2</td><td rowspan="3">4</td><td>8</td></tr> <tr><td>125</td><td>4</td><td>10</td></tr> <tr><td>160</td><td>5</td><td>11</td></tr> <tr><td>200</td><td>8</td><td rowspan="3">9</td><td>14</td></tr> <tr><td>250</td><td>9</td><td>15</td></tr> <tr><td>315</td><td>12</td><td>18</td></tr> <tr><td>400</td><td>15</td><td rowspan="3">18</td><td>21</td></tr> <tr><td>500</td><td>19</td><td>25</td></tr> <tr><td>630</td><td>23</td><td>29</td></tr> <tr><td>800</td><td>26</td><td rowspan="3">26</td><td>32</td></tr> <tr><td>1000</td><td>26</td><td>32</td></tr> <tr><td>1250</td><td>27</td><td>33</td></tr> <tr><td>1600</td><td>27</td><td rowspan="3">25</td><td>33</td></tr> <tr><td>2000</td><td>25</td><td>31</td></tr> <tr><td>2500</td><td>23</td><td>29</td></tr> <tr><td>3150</td><td>22</td><td rowspan="3">23</td><td>28</td></tr> <tr><td>4000</td><td>24</td><td>30</td></tr> <tr><td>5000</td><td>25</td><td>31</td></tr> </tbody> </table>			Insertion Loss				Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction	100	2	4	8	125	4	10	160	5	11	200	8	9	14	250	9	15	315	12	18	400	15	18	21	500	19	25	630	23	29	800	26	26	32	1000	26	32	1250	27	33	1600	27	25	33	2000	25	31	2500	23	29	3150	22	23	28	4000	24	30	5000	25	31
Insertion Loss																																																																						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction																																																																			
100	2	4	8																																																																			
125	4		10																																																																			
160	5		11																																																																			
200	8	9	14																																																																			
250	9		15																																																																			
315	12		18																																																																			
400	15	18	21																																																																			
500	19		25																																																																			
630	23		29																																																																			
800	26	26	32																																																																			
1000	26		32																																																																			
1250	27		33																																																																			
1600	27	25	33																																																																			
2000	25		31																																																																			
2500	23		29																																																																			
3150	22	23	28																																																																			
4000	24		30																																																																			
5000	25		31																																																																			
<p>Test Specimen: Hudson 600 Chevron Series Acoustic Louvre (2 x Hudson 300 Series Louvres back-to-back)</p> <p>Australian Standards: Measured according to AS 1191-2002</p> <p>Test Specimen Dimensions: 1800 mm (H) x 1200 mm (W) x 600 mm (D)</p> <p>Test Location: Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW</p> <p>Instrumentation:</p> <ul style="list-style-type: none"> - Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015) - Brüel and Kjær Cathode Follower type 2639 - Brüel and Kjær Cathode Follower type 2669 - Brüel and Kjær Microphone type 4144 - Brüel and Kjær Microphone type 4179 - Brüel and Kjær Sound Level Calibrator type 4231 - Yamaha Professional Sound Sources type S50 																																																																						
<p>600mm Hudson® Series (Two 300mm Panels) Acoustic Properties</p> <table border="1"> <caption>Data points from the graph</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Insertion Loss (dB)</th> <th>Noise Reduction (dB)</th> </tr> </thead> <tbody> <tr><td>100</td><td>2</td><td>8</td></tr> <tr><td>125</td><td>4</td><td>10</td></tr> <tr><td>160</td><td>5</td><td>11</td></tr> <tr><td>200</td><td>8</td><td>14</td></tr> <tr><td>250</td><td>9</td><td>15</td></tr> <tr><td>315</td><td>12</td><td>18</td></tr> <tr><td>400</td><td>15</td><td>21</td></tr> <tr><td>500</td><td>19</td><td>25</td></tr> <tr><td>630</td><td>23</td><td>29</td></tr> <tr><td>800</td><td>26</td><td>32</td></tr> <tr><td>1000</td><td>26</td><td>32</td></tr> <tr><td>1250</td><td>27</td><td>33</td></tr> <tr><td>1600</td><td>27</td><td>33</td></tr> <tr><td>2000</td><td>25</td><td>31</td></tr> <tr><td>2500</td><td>23</td><td>29</td></tr> <tr><td>3150</td><td>22</td><td>28</td></tr> <tr><td>4000</td><td>24</td><td>30</td></tr> <tr><td>5000</td><td>25</td><td>31</td></tr> </tbody> </table>			Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)	100	2	8	125	4	10	160	5	11	200	8	14	250	9	15	315	12	18	400	15	21	500	19	25	630	23	29	800	26	32	1000	26	32	1250	27	33	1600	27	33	2000	25	31	2500	23	29	3150	22	28	4000	24	30	5000	25	31											
Frequency (Hz)	Insertion Loss (dB)	Noise Reduction (dB)																																																																				
100	2	8																																																																				
125	4	10																																																																				
160	5	11																																																																				
200	8	14																																																																				
250	9	15																																																																				
315	12	18																																																																				
400	15	21																																																																				
500	19	25																																																																				
630	23	29																																																																				
800	26	32																																																																				
1000	26	32																																																																				
1250	27	33																																																																				
1600	27	33																																																																				
2000	25	31																																																																				
2500	23	29																																																																				
3150	22	28																																																																				
4000	24	30																																																																				
5000	25	31																																																																				
<p>Date of Test: Friday, 21 August 2009 Project Number: 4203G</p> <p>Test Engineer: Alex Li, BE(Mech) Hons For and on behalf of Day Design Pty Ltd</p> <p></p>																																																																						



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com

Technical Data Disclaimer

- Indicative maximum span provided are based on generic permissible design wind pressure of 2kPa.
- Span values and product technical information provided are subjected to variance by project specific requirements & influence factors such building location, terrain category & local pressure effects.
- Span values provided are based on typical scenario where product specified are fixed at one end; simply supported at the other end and in either horizontal or vertical orientation.
- If the product specified is required to function as barrier for fall protection or as trafficable element, maximum span and pitch nominated may be reduced.
- Spans values provided could be influenced and reduced when used in dynamically sensitive wind environment.
- For project specific product selection or preliminary design & engineering consultation, please contact 1300 165 678 or sales@louvreclad.com to arrange or book a meeting.





Inspire with Quality

As leaders in the building envelope market, we are known for exceptional quality and lasting value. Our credibility, wealth of knowledge, and unmatched competence enable us to inspire exterior solutions that look good and perform better.



The MadeRight Guarantee

Following our proven process enables us to develop solutions we're proud to put our mark of quality to. We guarantee that all projects will be delivered in a timely manner, be on specification, engineered to Australian standards and finished to the highest quality.



Made to Perform

Louvreclad solutions are made to last and manufactured on-site using high-quality Australian aluminium and steel. As an organisation we are driven to get a thousand things right everyday to achieve our vision to be the face of Australian Building. Our facades are not here to be average, they are here to perform – and so are we.

Speak to an expert

Reach out today to discuss your facade solution requirements; we would love to hear from you.



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com