

## Functional Performance Test

[Project]

System: **Exterior Enclosures**    Test: **ASTM-E779-2003**    Service: **Building Envelope**

| <i>Functional Performance Test</i>                                 | <i>Pass</i> | <i>Fail</i> | <i>Remarks</i>   |
|--|-------------|-------------|--|
| <b>AMBIENT CONDITIONS</b>  |             |             |  |
| Measure interior-exterior temperature                              |             |             | Inside = _____ °F  |
|  |             |             | Outside = _____ °F   |
| Calculated temperature differential<br>(exterior °F – interior °F) |             |             | $\Delta T =$ _____ °F  |
|  |             |             |  |
| Stack pressure condition verified                                  |             |             | $(\Delta T)(\text{Bldg. Height}) < 1180 \text{ft}^{\circ}\text{F}$ |
|  |             |             |  |
| Measure approximate wind velocity < 4 MPH                          |             |             | North= _____ MPH   |
|  |             |             | West= _____ MPH  |
|  |             |             | South= _____ MPH   |
|  |             |             | East= _____ MPH  |
|  |             |             |  |
| Interior doors open; closet doors closed                           |             |             |  |
| Shut off HVAC and Supply Fans                                      |             |             |  |
| Shut off Exhaust Fans  |             |             |  |
|  |             |             |  |
| Average Bias $\Delta P$ for building baseline                      |             |             | DB <sub>1</sub> _____ Pa   |
| Average Bias $\Delta P$ for building baseline                      |             |             | DB <sub>2</sub> _____ Pa   |
|  |             |             |  |
|  |             |             |  |
| Measure Airflow <sub>1</sub>                                       |             |             | Airflow DB <sub>1</sub> = _____ CFM                                |
| Measure Airflow <sub>2</sub>                                       |             |             | Airflow DB <sub>2</sub> = _____ CFM                                |
| Total Measure Airflow  |             |             | Airflow <sub>T</sub> = _____ CFM                                   |
|  |             |             |  |
| <b>TEST SITE SEA LEVEL ELEVATION</b>                               |             |             | <b>1st Floor Elev. = _____ FEET</b>                                |
|  |             |             |  |

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|--|-------------|-------------|---------------------------------------|
| <b>DEPRESSURIZATION DOOR BLOWER TEST#1</b> |             |             |                                       |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                            |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                             |
|  |             |             |                                       |
| <b>DEPRESSURIZATION DOOR BLOWER TEST#2</b> |             |             |                                       |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                            |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                             |
|  |             |             |                                       |

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|--|-------------|-------------|------------------------------------|
| <b>DEPRESSURIZATION DOOR BLOWER TEST#3</b> |             |             |                                    |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>          |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>          |
|  |             |             |                                    |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =      CFM |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =      CFM |
|  |             |             |                                    |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =      CFM    |
|  |             |             |                                    |
| Turn Blower Off                            |             |             |                                    |
|  |             |             |                                    |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                          |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                          |
|  |             |             |                                    |
| <b>DEPRESSURIZATION DOOR BLOWER TEST#4</b> |             |             |                                    |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>          |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>          |
|  |             |             |                                    |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =      CFM |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =      CFM |
|  |             |             |                                    |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =      CFM    |
|  |             |             |                                    |
| Turn Blower Off                            |             |             |                                    |
|  |             |             |                                    |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                          |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                          |
|  |             |             |                                    |

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|--|-------------|-------------|---------------------------------------|
| <b>DEPRESSURIZATION DOOR BLOWER TEST#5</b> |             |             |                                       |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                            |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                             |
|  |             |             |                                       |
| <b>DEPRESSURIZATION DOOR BLOWER TEST#6</b> |             |             |                                       |
| Tested $\Delta P$ for building             |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building             |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>            |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>            |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                     |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                            |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building            |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building   |             |             | <b>Pa</b>                             |
|  |             |             |                                       |

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|--|-------------|-------------|----------------------------------|
| <b>PRESSURIZATION DOOR BLOWER TEST#1</b> |             |             |                                  |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>        |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>        |
|  |             |             |                                  |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =    CFM |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =    CFM |
|  |             |             |                                  |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =    CFM    |
|  |             |             |                                  |
| Turn Blower Off                          |             |             |                                  |
|  |             |             |                                  |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                        |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                        |
|  |             |             |                                  |
| <b>PRESSURIZATION DOOR BLOWER TEST#2</b> |             |             |                                  |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>        |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>        |
|  |             |             |                                  |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =    CFM |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =    CFM |
|  |             |             |                                  |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =    CFM    |
|  |             |             |                                  |
| Turn Blower Off                          |             |             |                                  |
|  |             |             |                                  |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                        |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                        |

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|--|-------------|-------------|---------------------------------------|
| <b>PRESSURIZATION DOOR BLOWER TEST#3</b> |             |             |                                       |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                          |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                             |
|  |             |             |                                       |
| <b>PRESSURIZATION DOOR BLOWER TEST#4</b> |             |             |                                       |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                          |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                             |

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|--|-------------|-------------|---------------------------------------|
| <b>PRESSURIZATION DOOR BLOWER TEST#5</b> |             |             |                                       |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                          |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                             |
|  |             |             |                                       |
| <b>PRESSURIZATION DOOR BLOWER TEST#6</b> |             |             |                                       |
| Tested $\Delta P$ for building           |             |             | DB <sub>1</sub> <b>Pa</b>             |
| Tested $\Delta P$ for building           |             |             | DB <sub>2</sub> <b>Pa</b>             |
|  |             |             |                                       |
| Measure Airflow DB <sub>1</sub>          |             |             | Airflow DB <sub>1</sub> =        CFM  |
| Measure Airflow DB <sub>2</sub>          |             |             | Airflow DB <sub>2</sub> =        CFM  |
|  |             |             |                                       |
| Total Measured Airflow                   |             |             | Airflow <sub>T</sub> =            CFM |
|  |             |             |                                       |
| Turn Blower Off                          |             |             |                                       |
|  |             |             |                                       |
| Average $\Delta P$ for building          |             |             | <b>Pa</b>                             |
| Adjusted average $\Delta P$ for building |             |             | <b>Pa</b>                             |
|  |             |             |                                       |

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