



AUSTRALIAN
GLASS & WINDOW
ASSOCIATION

AUSTRALIAN GLASS AND WINDOW ASSOCIATION

WINDOW & DOOR FIXING GUIDE



AN INDUSTRY GUIDE TO
THE CORRECT FIXING OF
WINDOWS AND DOORS

VERSION 2
MAY 2021



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BACKGROUND

FOREWORD

The Australian Glass and Window Association is pleased to present this Industry Guide for the Fixing of Windows and Doors as part of its commitment to raising the standard of the built performance of windows and doors. This guide is a recommendation as to the fixings to be used and is based on the various Australian Standards that are relevant for determining fixing numbers for timber structures, masonry structures and lightweight steel structures.

AUSTRALIAN GLASS AND WINDOW ASSOCIATION

The AGWA is a co-operative of window manufacturers, glaziers and their suppliers.

The Australian Glass and Window Association (AGWA) aims are:

- To promote and advance the awareness of windows and glass as a major architectural component in building design.
- To establish and self regulate minimum benchmark standards through Australia.
- To facilitate the education and marketing of these standards throughout the industry and wider community.
- To provide a national voice when representing the industry in discussion and negotiation with government, local authorities, business and trade associations and organisations, and the private sector.
- To promote and encourage ethical conduct and sound business practice in the industry.

OBJECTIVE

The fixing numbers for the AGWA Industry Guide to Correct Fixing of Windows and Doors has been revised to align with the latest pressures in AS 2047-2014 as well as to update the tables within the guide to incorporate the latest changes in other relevant standards. Australian Standards (AS) referenced for calculating the fixing numbers are:

AS 2047:2014 – Windows and external glazed doors in buildings

AS 1720.1:2010 – Timber Structures, Part 1- Design Methods

AS 4100:2020 – Steel Structures

AS 4600:2018 – Cold-formed steel structures

AS 4055:2012 – Wind loads for housing.

This Industry Guide to the Fixing of Windows and Doors provides the minimum fastening number and sizes for fixing windows and doors into buildings that are classified as housing as per Australian Standard AS 4055. By providing this resource as a guide it is hoped that windows and doors supplied to majority of the Australian housings remain structurally sound.

ACKNOWLEDGEMENT

The AGWA gratefully acknowledges those member companies whose contributions and continued support to the AGWA Technical committees and its sub-committees have made this guide possible.

DISCLAIMER

The information contained is for use on windows and doors up to a maximum height of 3000 mm. For all sizes larger than the sizes prescribed in this guide, an engineered solution is required. Refer to the system supplier.

While the AGWA has made every effort to ensure that the material within this guide is accurate, the Australian Glass and Window Association will not be liable for any mistakes, errors or omissions arising as a result of information contained in this guide.

This Fixing Guide is designed to be used in conjunction with the “Installation - An Industry Guide to the Correct Installation of Windows & Doors” published by AGWA.

THE NATIONAL CONSTRUCTION CODE

The National Construction Code (NCC) is produced and maintained by the Australian Building Codes Board (ABCB) on behalf of the Australian Government and each State and Territory Government.

The NCC is a performance-based document and sets out minimum performance requirements for the design and construction of buildings and other structures throughout Australia. It allows for variation in climate and geological or geographic conditions.

Under part 3.6 section 3.6.0 of Volume Two of the NCC 2019, performance requirements (P2.1 & P2.2.2) are satisfied if windows are designed and constructed in accordance with AS 2047. For glazed assemblies not covered by AS 2047 compliance to AS 1288 is required.

AS 2047 - Windows in buildings: Selection and Installation

AS 1288 - Glass in buildings: Selection and Installation

INSTALLATION

At all times manufacturer’s installation instructions will be the predominant procedure for the installation of proprietary windows.

Installers should ensure that manufacturer’s instruction are adopted.

The practices outlined in this guide are not intended to supersede manufacturer’s instructions but provide basic and generic guidelines in the absence of them.

Approved PPE (personal protective equipment) should be worn at all times when handling windows.

Special consideration needs to be made for windows and doors systems designed specifically for acoustic and energy efficiency and reference must be made to the building designer or installer for installation details.

REFERENCE FROM AS 2047 APPENDIX C

For buildings that are classified as housing under the Australian Standard AS 4055, the purchaser (building designer or builder) should nominate the wind rating (N or C) for the window assemblies when ordering the windows.

The manufacturer of window assemblies should verify the window ratings or design wind pressures as provided by the purchaser.

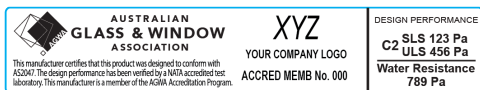
RESPONSIBILITIES

LABELLING

The label should be positioned so that the window can be identified when viewed in situ and have the following information marked on the frame:

- (a) Housing:
 1. Manufacturer's identification mark
 2. Window rating and water penetration resistance
- (b) Residential other than housing:
 1. Manufacturer's identification mark.
 2. Serviceability limit state residential ratings
 3. Ultimate limit state residential ratings
 4. Water penetration resistance
- (c) Commercial:
 1. Manufacturer's identification mark
 2. Serviceability limit state commercial ratings
 3. Ultimate limit state commercial ratings
 4. Water penetration resistance.

Figure 1 Performance Label



CERTIFICATE

Certificates, indicating window performance can be provided for window assemblies in residential applications. The manufacturer of the window assembly would normally provide this certificate.

Figure 2 AGWA Compliance Certificate

COMPLIANCE CERTIFICATE

is a participating member of the AGWA Accreditation Program, provides a 6 year Guarantee against faulty workmanship and materials (refer to Manufacturer's Warranty), is committed to the industry Code of Conduct and has met the requirements of the annual AGWA Compliance Audit.

The manufacturer certifies that the windows and doors supplied to:

Delivery address: _____

Delivered on: _____

have been manufactured to comply with the Australian Glass and Window Standard AS 2042 and Glass Standard AS 2214 including human impact requirements as specified in the order. The windows and doors have been manufactured to comply with NCC energy efficiency and bushfire requirements as specified by the purchaser.

The windows have been manufactured to comply with:

Housing	SLS Pa	ULS Pa	WPR Pa	Other Construction	SLS Pa	ULS Pa	WPR Pa	RLS	Pa
<input type="checkbox"/> N1	400	600	150	<input type="checkbox"/> C1	600	1800	150	ULS	Pa
<input type="checkbox"/> N2	400	900	150	<input type="checkbox"/> C2	800	2700	200	WPR	Pa
<input type="checkbox"/> N3	600	1600	150	<input type="checkbox"/> C3	1200	4000	200		
<input type="checkbox"/> N4	600	2000	200	<input type="checkbox"/> C4	1600	5300	450		
<input type="checkbox"/> N5	1200	3000	200						
<input type="checkbox"/> N6	1600	4000	450						

Note: For corner windows, the next highest rating pressure applies.

Energy Performance Ratings, AFRC Results: U Value, U_g _____ Solar Heat Gain Co efficient, SHGC, _____

Refer to attached schedule

Quality Rating: BAL 12.5 BAL 19 BAL 29 Not required/specified
 BAL 40 BAL F2

Methodology: Tested (AS 1538.1) Prescriptive (AS 3359)

Signed: _____ Date: _____
Window Company

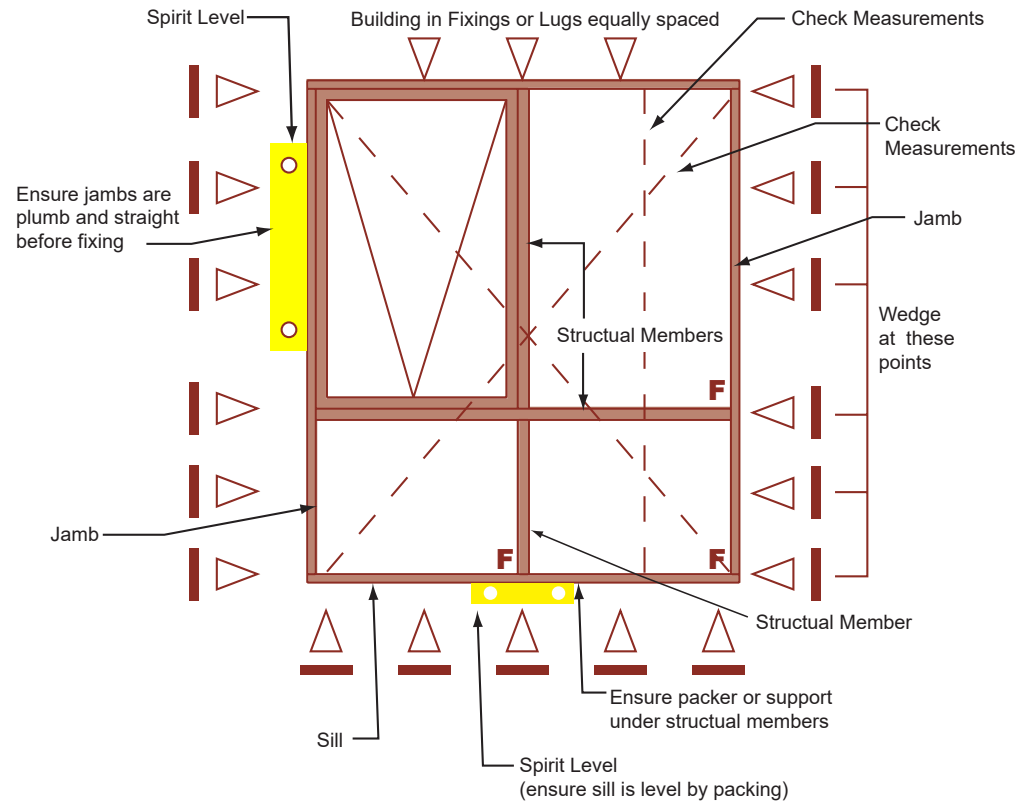
The builder/installer certifies that the windows and doors supplied have been installed correctly in accordance with the requirements of the National Construction Code and the human impact glass located in the covered openings.

Signed: _____ Date: _____
Builder/Installer

For accreditation details, visit www.agwa.com.au
Document No. AGWA-CC-A20 14

FIXING FRAMES CORRECTLY

Figure 3 Fixing Frames



* Fix via building lugs, nails or shim at equally spaced arrow points.

HOW TO USE THIS GUIDE

The tables within this guide determine the number of nails or screws needed for appropriate fixing of windows and doors.

The number of nails or screws needed are dependent on the:

- Wind Classification (as provided by AS 4055)
- ULS Wind Pressure (as provided in Table 2.5 of AS 2047)
- Diameter of Nail or Screw Size
- Window Width
- Window Height

Fixings would normally be evenly spaced but some specific product types and/or wind loading conditions may require specialised placement. Refer to the system supplier if unsure.

EXAMPLE ULS WIND PRESSURE: 900 PA, NAIL DIAMETER: 2.5 MM

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	8	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	14
	1500	4	6	6	8	10	12	12	14	16	18	18
	1800	4	6	8	10	12	14	14	16	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	14	18	20	22	24	26	28
	2700	6	8	12	14	16	20	22	24	28	30	32
	3000	6	10	12	16	18	22	24	28	30	34	36

For a window 2100 mm (h) x 1500 mm (w) to be fixed into a home built in a N1 Wind Classification zone (with a ULS Wind Pressure of 900 Pa) and using a 2.5 mm nail: 12 Nails are to be used to fix this window.

EMBEDMENT DEPTH

Embedment Depth into timber and masonry

$$p \geq 10D$$

p = penetration
D = diameter of nail or screw

Example:

- Using a 2.5 mm nail, penetration should be at least 25 mm
- Using a 6 Gauge Screw, penetration should be at least 34.5 mm. This is because the shank diameter (D) of a 6 Gauge screw is 3.45 mm as per AS 1720.1-2010.

ASSUMPTIONS

1. The following tables for nails, screws and masonry anchors set a guidance for the minimum number of fasteners required to hold a window into a timber frame, brick, blockwork or lightweight steel frame.
2. These tables have been derived by using the following Australian Standards:
 - AS 2047:2014 - Windows and external glazed doors in buildings
 - AS 1720.1:2010 - Timber Structures, Part 1- Design Methods
 - AS 4100:2020 - Steel Structures
 - AS 4600:2018 - Cold-formed steel structures
 - AS 4055:2012 - Wind loads for housing.
3. All tables for timber frame and lightweight steel frame buildings are calculated using **corner window ULS pressures** from Table 2.5 of AS 2047. It is our recommendation to reduce the **fixing numbers by 30%** if this guide is used for general windows. Please note a minimum of 4 fixings are required even if the fixing numbers for general windows is less than 4 after a 30% reduction.
4. **For the purpose of this guide only, N1C means N1 corner pressure, N2C means N2 corner pressure and likewise.**
5. Please note there is no change to the minimum number of fasteners (anchors) required to hold a window into a brick or blockwork opening. The anchor numbers for brick or blockwork remains the same as in the previous edition of the AGWA Industry Guide to Fixing of Windows and Doors.
6. The sizes of nails considered for the following tables are 2.5 mm, 2.8 mm and 3.15 mm. Sizes of screws considered are 4 Gauge, 6 Gauge, 8 Gauge, 10 Gauge and 12 Gauge. Please refer to AS 1720.1 for the shank diameters for different screw sizes.
7. ULS wind pressures are as per AS 2047-2014 Windows in Buildings and AS 4055-2012 Wind loads for housing.
8. Windows must be packed between the reveals and frame (except at lintels). Failure to do so will greatly reduce the strength of the fasteners used.
9. It is assumed that the load is distributed equally to all fasteners.
10. Manufacturers generally recommend that windows be fastened through the jambs. Wide windows may need to be fastened through the sill.
11. Wide windows and doors may also need extra consideration to the head to resist windloads. The head cannot take any of the vertical load through the lintel.

FIXING SIZE GUIDE

TIMBER FRAMED BUILDINGS

The following tables for nails and screws sets a guidance for the minimum number of fasteners required to hold a window into a timber frame.

These tables have been derived from AS 1720.1-2010 Timber Structures (Design Methods). Section 4.2 - Design of nailed joints and Section 4.3 - Design of screwed joints of the standard have been adopted to determine the fixing numbers for timber framed buildings. Timber studs considered for the purpose of this guide are seasoned pine species with a **joint group of JD4** as per AS 1720.1.

The sizes of nails considered for the following tables are 2.5 mm, 2.8 mm and 3.15 mm. Sizes of screws considered are 4 Gauge, 6 Gauge, 8 Gauge, 10 Gauge and 12 Gauge. Please refer to AS 1720.1 for the shank diameters for different screw sizes.

ULS wind pressures are as per AS 2047-2014 Windows and External Glazed Doors in Buildings and AS 4055-2012 Wind Loads for Housing.

Windows must be packed between the reveals and frame (except at lintels). Failure to do so will greatly reduce the strength of the fasteners used.

It is assumed that the load is distributed equally to all fasteners.

Manufacturers generally recommend that windows be fastened through the jambs. Wide windows may need to be fastened through the sill.

Wide windows and doors may also need extra consideration to the head to resist windloads. Windows are not load bearing. The head cannot support any of the vertical load through the lintel.

For more information, refer to the AGWA Guide for Installation.

TIMBER FRAME NAIL CAPACITY

N1C / 900 PA ULS

ULS WIND PRESSURE: 900 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	8	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	14
	1500	4	6	6	8	10	12	12	14	16	18	18
	1800	4	6	8	10	12	14	14	16	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	14	18	20	22	24	26	28
	2700	6	8	12	14	16	20	22	24	28	30	32
	3000	6	10	12	16	18	22	24	28	30	34	36

ULS WIND PRESSURE: 900 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	8	10
	1200	4	4	4	6	6	8	8	10	10	12	12
	1500	4	4	6	6	8	10	10	12	12	14	16
	1800	4	6	6	8	10	12	12	14	16	16	18
	2100	4	6	8	10	12	12	14	16	18	20	22
	2400	4	6	8	10	12	14	16	18	20	22	24
	2700	6	8	10	12	14	16	18	20	22	24	26
	3000	6	8	10	12	16	18	20	22	24	28	30

ULS WIND PRESSURE: 900 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	6	6	6	6	8	8
	1200	4	4	4	4	6	6	8	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	10	10	12	12	14	16
	2100	4	6	6	8	10	10	12	14	14	16	18
	2400	4	6	8	8	10	12	14	16	16	18	20
	2700	4	6	8	10	12	14	16	16	18	20	22
	3000	4	6	8	10	12	14	16	18	20	22	24

N2C / 1300 PA ULS

ULS WIND PRESSURE: 1300 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	6	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	14	16
	1200	4	6	8	10	12	12	14	16	18	20	22
	1500	6	8	10	12	14	16	18	20	22	24	26
	1800	6	8	12	14	16	18	22	24	26	28	32
	2100	6	10	12	16	18	22	24	28	30	34	36
	2400	8	12	14	18	22	24	28	32	34	38	42
	2700	8	12	16	20	24	28	32	36	38	42	46
	3000	10	14	18	22	26	30	34	38	44	48	52

ULS WIND PRESSURE: 1300 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	14	16	18
	1500	4	6	8	10	12	14	14	16	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	14	16	18	20	22	26	28	30
	2400	6	10	12	14	18	20	24	26	28	32	34
	2700	8	10	14	16	20	22	26	28	32	36	38
	3000	8	12	14	18	22	26	28	32	36	38	42

ULS WIND PRESSURE: 1300 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	8	8
	900	4	4	4	6	6	6	8	8	10	10	12
	1200	4	4	6	6	8	8	10	12	12	14	14
	1500	4	6	6	8	10	10	12	14	16	16	18
	1800	4	6	8	10	12	12	14	16	18	20	22
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	20	22	24	26	28
	2700	6	8	12	14	16	18	22	24	26	30	32
	3000	6	10	12	16	18	20	24	26	30	32	34

N3C / 2000 PA ULS

ULS WIND PRESSURE: 2000 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	12	12	14	16	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	12	14	16	20	22	24	26	30	32
	1500	8	10	14	18	20	24	26	30	34	36	40
	1800	8	12	16	20	24	28	32	36	40	44	48
	2100	10	14	20	24	28	32	38	42	46	50	56
	2400	12	16	22	26	32	38	42	48	52	58	64
	2700	12	18	24	30	36	42	48	54	60	66	70
	3000	14	20	26	34	40	46	52	60	66	72	78

ULS WIND PRESSURE: 2000 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	16	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	20	22	24	28	30	32
	1800	8	10	14	16	20	24	26	30	32	36	40
	2100	8	12	16	20	24	28	30	34	38	42	46
	2400	10	14	18	22	26	30	34	40	44	48	52
	2700	10	16	20	24	30	34	40	44	48	54	58
	3000	12	16	22	28	32	38	44	48	54	60	64

ULS WIND PRESSURE: 2000 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	16	16
	1200	4	6	8	10	12	14	14	16	18	20	22
	1500	6	8	10	12	14	16	18	20	22	24	28
	1800	6	8	12	14	16	20	22	24	28	30	32
	2100	8	10	14	16	20	22	26	28	32	34	38
	2400	8	12	14	18	22	26	28	32	36	40	42
	2700	8	12	16	20	24	28	32	36	40	44	48
	3000	10	14	18	22	28	32	36	40	44	48	54

N4C / 3000 PA ULS

ULS WIND PRESSURE: 3000 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	28	30	34	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	34	40	44	50	54	60
	1800	12	18	24	30	36	42	48	54	60	66	70
	2100	14	22	28	34	42	48	56	62	68	76	82
	2400	16	24	32	40	48	56	64	70	78	86	94
	2700	18	28	36	44	54	62	70	80	88	98	106
	3000	20	30	40	50	60	68	78	88	98	108	118

ULS WIND PRESSURE: 3000 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	16	16	18	20
	900	6	8	10	12	16	18	20	22	24	28	30
	1200	8	10	14	16	20	24	26	30	32	36	40
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	16	20	24	30	34	40	44	48	54	58
	2100	12	18	24	28	34	40	46	52	56	62	68
	2400	14	20	26	32	40	46	52	58	64	72	78
	2700	16	22	30	36	44	52	58	66	72	80	86
	3000	16	24	32	40	48	56	64	72	80	88	96

ULS WIND PRESSURE: 3000 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	12	12	14	16	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	12	14	16	20	22	24	28	30	32
	1500	8	10	14	18	20	24	28	30	34	36	40
	1800	8	12	16	20	24	28	32	36	40	44	48
	2100	10	14	20	24	28	34	38	42	46	52	56
	2400	12	16	22	28	32	38	42	48	54	58	64
	2700	12	18	24	30	36	42	48	54	60	66	72
	3000	14	20	28	34	40	46	54	60	66	72	80

N5C / 4500 PA ULS

ULS WIND PRESSURE: 4500 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	10	12	16	18	22	24	28	30	34	36
	900	10	14	18	22	28	32	36	40	44	50	54
	1200	12	18	24	30	36	42	48	54	60	66	70
	1500	16	22	30	38	44	52	60	66	74	82	88
	1800	18	28	36	44	54	62	70	80	88	98	106
	2100	22	32	42	52	62	72	82	92	102	114	124
	2400	24	36	48	60	70	82	94	106	118	130	140
	2700	28	40	54	66	80	92	106	120	132	146	158
	3000	30	44	60	74	88	102	118	132	146	162	176

ULS WIND PRESSURE: 4500 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	16	18	20	22	24	28	30
	900	8	12	16	18	22	26	30	34	36	40	44
	1200	10	16	20	24	30	34	40	44	48	54	58
	1500	12	18	24	30	36	42	48	54	60	66	72
	1800	16	22	30	36	44	52	58	66	72	80	86
	2100	18	26	34	42	52	60	68	76	84	92	102
	2400	20	30	40	48	58	68	78	86	96	106	116
	2700	22	34	44	54	66	76	86	98	108	120	130
	3000	24	36	48	60	72	84	96	108	120	132	144

ULS WIND PRESSURE: 4500 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	28	30	34	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	36	40	46	50	54	60
	1800	12	18	24	30	36	42	48	54	60	66	72
	2100	14	22	28	36	42	50	56	62	70	76	84
	2400	16	24	32	40	48	56	64	72	80	88	96
	2700	18	28	36	46	54	62	72	80	90	98	106
	3000	20	30	40	50	60	70	80	90	100	108	118

N6C / 6000 PA ULS

ULS WIND PRESSURE: 6000 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	12	16	20	24	28	32	36	40	44	48
	900	12	18	24	30	36	42	48	54	60	66	70
	1200	16	24	32	40	48	56	64	70	78	86	94
	1500	20	30	40	50	60	68	78	88	98	108	118
	1800	24	36	48	60	70	82	94	106	118	130	140
	2100	28	42	56	68	82	96	110	124	136	150	164
	2400	32	48	64	78	94	110	126	140	156	172	188
	2700	36	54	70	88	106	124	140	158	176	194	210
	3000	40	60	78	98	118	136	156	176	196	214	234

ULS WIND PRESSURE: 6000 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	10	14	16	20	24	26	30	32	36	40
	900	10	16	20	24	30	34	40	44	48	54	58
	1200	14	20	26	32	40	46	52	58	64	72	78
	1500	16	24	32	40	48	56	64	72	80	88	96
	1800	20	30	40	48	58	68	78	86	96	106	116
	2100	24	34	46	56	68	80	90	102	112	124	134
	2400	26	40	52	64	78	90	102	116	128	142	154
	2700	30	44	58	72	86	102	116	130	144	158	172
	3000	32	48	64	80	96	112	128	144	160	176	192

ULS WIND PRESSURE: 6000 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	12	14	16	20	22	24	28	30	32
	900	8	12	16	20	24	28	32	36	40	44	48
	1200	12	16	22	28	32	38	42	48	54	58	64
	1500	14	20	28	34	40	46	54	60	66	72	80
	1800	16	24	32	40	48	56	64	72	80	88	96
	2100	20	28	38	46	56	66	74	84	92	102	110
	2400	22	32	42	54	64	74	84	96	106	116	126
	2700	24	36	48	60	72	84	96	106	118	130	142
	3000	28	40	54	66	80	92	106	118	132	144	158

C1C / 2700 PA ULS

ULS WIND PRESSURE: 2700 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	14	16	18	20	22
	900	6	8	12	14	16	20	22	24	28	30	32
	1200	8	12	14	18	22	26	28	32	36	40	42
	1500	10	14	18	22	28	32	36	40	44	50	54
	1800	12	16	22	28	32	38	42	48	54	58	64
	2100	14	20	26	32	38	44	50	56	62	68	74
	2400	14	22	28	36	42	50	56	64	70	78	84
	2700	16	24	32	40	48	56	64	72	80	88	96
	3000	18	28	36	44	54	62	70	80	88	98	106

ULS WIND PRESSURE: 2700 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	12	12	14	16	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	16	18	22	24	26	30	32	36
	1500	8	12	16	18	22	26	30	34	36	40	44
	1800	10	14	18	22	26	32	36	40	44	48	52
	2100	12	16	22	26	32	36	42	46	52	56	62
	2400	12	18	24	30	36	42	46	52	58	64	70
	2700	14	20	26	34	40	46	52	60	66	72	78
	3000	16	22	30	36	44	52	58	66	72	80	86

ULS WIND PRESSURE: 2700 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	16
	900	4	6	8	10	12	14	16	16	18	20	22
	1200	6	8	10	12	16	18	20	22	24	26	30
	1500	6	10	12	16	18	22	24	28	30	34	36
	1800	8	12	16	18	22	26	30	32	36	40	44
	2100	10	14	18	22	26	30	34	38	42	46	50
	2400	10	16	20	24	30	34	38	44	48	52	58
	2700	12	16	22	28	32	38	44	48	54	60	64
	3000	12	18	24	30	36	42	48	54	60	66	72

C2C / 4000 PA ULS

ULS WIND PRESSURE: 4000 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	12	14	16	20	22	24	26	30	32
	900	8	12	16	20	24	28	32	36	40	44	48
	1200	12	16	22	26	32	38	42	48	52	58	64
	1500	14	20	26	34	40	46	52	60	66	72	78
	1800	16	24	32	40	48	56	64	70	78	86	94
	2100	20	28	38	46	56	64	74	82	92	100	110
	2400	22	32	42	52	64	74	84	94	104	114	126
	2700	24	36	48	60	70	82	94	106	118	130	140
	3000	26	40	52	66	78	92	104	118	130	144	156

ULS WIND PRESSURE: 4000 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	16	20	24	26	30	32	36	40
	1200	10	14	18	22	26	30	34	40	44	48	52
	1500	12	16	22	28	32	38	44	48	54	60	64
	1800	14	20	26	32	40	46	52	58	64	72	78
	2100	16	24	30	38	46	54	60	68	76	82	90
	2400	18	26	34	44	52	60	68	78	86	94	102
	2700	20	30	40	48	58	68	78	86	96	106	116
	3000	22	32	44	54	64	76	86	96	108	118	128

ULS WIND PRESSURE: 4000 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	14	16	18	20	22
	900	6	8	12	14	16	20	22	24	28	30	32
	1200	8	12	14	18	22	26	28	32	36	40	42
	1500	10	14	18	22	28	32	36	40	44	48	54
	1800	12	16	22	28	32	38	42	48	54	58	64
	2100	14	20	26	32	38	44	50	56	62	68	74
	2400	14	22	28	36	42	50	56	64	70	78	84
	2700	16	24	32	40	48	56	64	72	80	88	96
	3000	18	28	36	44	54	62	70	80	88	96	106

C3C / 5900 PA ULS

ULS WIND PRESSURE: 5900 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	12	16	20	24	28	32	36	40	44	46
	900	12	18	24	30	36	42	46	52	58	64	70
	1200	16	24	32	40	46	54	62	70	78	86	92
	1500	20	30	40	48	58	68	78	86	96	106	116
	1800	24	36	46	58	70	82	92	104	116	128	138
	2100	28	42	54	68	82	94	108	122	134	148	162
	2400	32	46	62	78	92	108	124	138	154	170	184
	2700	36	52	70	86	104	122	138	156	172	190	208
	3000	40	58	78	96	116	134	154	172	192	212	230

ULS WIND PRESSURE: 5900 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	10	14	16	20	22	26	30	32	36	38
	900	10	16	20	24	30	34	38	44	48	52	58
	1200	14	20	26	32	38	44	52	58	64	70	76
	1500	16	24	32	40	48	56	64	72	80	88	94
	1800	20	30	38	48	58	66	76	86	94	104	114
	2100	22	34	44	56	66	78	88	100	110	122	132
	2400	26	38	52	64	76	88	102	114	126	138	152
	2700	30	44	58	72	86	100	114	128	142	156	170
	3000	32	48	64	80	94	110	126	142	158	174	188

ULS WIND PRESSURE: 5900 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	12	14	16	18	22	24	26	30	32
	900	8	12	16	20	24	28	32	36	40	44	48
	1200	12	16	22	26	32	36	42	48	52	58	62
	1500	14	20	26	34	40	46	52	58	66	72	78
	1800	16	24	32	40	48	54	62	70	78	86	94
	2100	18	28	36	46	54	64	72	82	90	100	108
	2400	22	32	42	52	62	72	84	94	104	114	124
	2700	24	36	48	58	70	82	94	106	116	128	140
	3000	26	40	52	66	78	90	104	116	130	142	156

C4C / 8000 PA ULS

ULS WIND PRESSURE: 8000 PA, **NAIL DIAMETER: 2.5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	12	16	22	26	32	38	42	48	52	58	64
	900	16	24	32	40	48	56	64	70	78	86	94
	1200	22	32	42	52	64	74	84	94	104	114	126
	1500	26	40	52	66	78	92	104	118	130	144	156
	1800	32	48	64	78	94	110	126	140	156	172	188
	2100	38	56	74	92	110	128	146	164	182	200	218
	2400	42	64	84	104	126	146	166	188	208	228	250
	2700	48	70	94	118	140	164	188	210	234	258	280
	3000	52	78	104	130	156	182	208	234	260	286	312

ULS WIND PRESSURE: 8000 PA, **NAIL DIAMETER: 2.8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	10	14	18	22	26	30	34	40	44	48	52
	900	14	20	26	32	40	46	52	58	64	72	78
	1200	18	26	34	44	52	60	68	78	86	94	102
	1500	22	32	44	54	64	76	86	96	108	118	128
	1800	26	40	52	64	78	90	102	116	128	142	154
	2100	30	46	60	76	90	106	120	134	150	164	180
	2400	34	52	68	86	102	120	136	154	170	188	204
	2700	40	58	78	96	116	134	154	172	192	212	230
	3000	44	64	86	108	128	150	170	192	214	234	256

ULS WIND PRESSURE: 8000 PA, **NAIL DIAMETER: 3.15 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	12	14	18	22	26	28	32	36	40	42
	900	12	16	22	28	32	38	42	48	54	58	64
	1200	14	22	28	36	42	50	56	64	70	78	84
	1500	18	28	36	44	54	62	70	80	88	96	106
	1800	22	32	42	54	64	74	84	96	106	116	126
	2100	26	38	50	62	74	86	98	110	124	136	148
	2400	28	42	56	70	84	98	112	126	140	154	168
	2700	32	48	64	80	96	110	126	142	158	174	190
	3000	36	54	70	88	106	124	140	158	176	192	210

N1C / 900 PA ULS



ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	16	16
	1500	4	6	8	10	10	12	14	16	18	20	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	18	20	22	24	26	28
	2400	6	8	12	14	16	20	22	24	28	30	32
	2700	6	10	12	16	18	22	24	28	30	34	36
	3000	8	10	14	18	20	24	28	30	34	38	40

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	8	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	8	8	10	12	14	14	16	18	20
	2400	4	6	8	10	12	14	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	26

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	4	6	6	8	8	8	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	8	8	10	10	12	14	14	16
	2700	4	6	6	8	10	10	12	14	14	16	18
	3000	4	6	8	8	10	12	14	14	16	18	20

N1C / 900 PA ULS



ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	6	8	8
	1800	4	4	4	4	6	6	6	8	8	8	10
	2100	4	4	4	6	6	6	8	8	10	10	10
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	10	12	12	14
	3000	4	4	6	6	8	10	10	12	12	14	14

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	4	6	6	6	8	8
	2100	4	4	4	4	4	6	6	6	8	8	8
	2400	4	4	4	4	6	6	6	8	8	10	10
	2700	4	4	4	6	6	6	8	8	10	10	10
	3000	4	4	4	6	6	8	8	10	10	12	12

N2C / 1300 PA ULS



ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	10	12	14	16	16	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	12	16	18	20	22	24	28	30
	1800	6	10	12	16	18	20	24	26	30	32	36
	2100	8	10	14	18	20	24	28	30	34	38	40
	2400	8	12	16	20	24	28	32	36	40	42	46
	2700	10	14	18	22	26	30	36	40	44	48	52
	3000	10	16	20	24	30	34	40	44	48	54	58

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	14	16
	1500	4	6	8	8	10	12	14	16	16	18	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	16	18	20	22	26	28
	2400	6	8	12	14	16	18	22	24	26	28	32
	2700	6	10	12	16	18	20	24	26	30	32	34
	3000	8	10	14	16	20	22	26	30	32	36	38

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	8	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	14	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	8	8	10	12	14	14	16	18	20
	2400	4	6	8	10	12	14	16	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	24	26	28

N2C / 1300 PA ULS



ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	6	8	8	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	6	8	10	10	12	12	14	16
	2400	4	6	6	8	10	10	12	14	14	16	18
	2700	4	6	8	8	10	12	14	14	16	18	20
	3000	4	6	8	10	12	12	14	16	18	20	22

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	8	8	10	10	12	14	14	16
	3000	4	6	6	8	10	10	12	14	14	16	18

N3C / 2000 PA ULS



ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	12	12	14	16	18	18
	900	6	8	10	12	14	16	18	20	22	26	28
	1200	6	10	12	16	18	22	24	28	30	34	36
	1500	8	12	16	20	22	26	30	34	38	42	44
	1800	10	14	18	22	28	32	36	40	44	50	54
	2100	12	16	22	26	32	36	42	48	52	58	62
	2400	12	18	24	30	36	42	48	54	60	66	72
	2700	14	20	28	34	40	48	54	60	66	74	80
	3000	16	22	30	38	44	52	60	66	74	82	88

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	12	12	14	16	16	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	14	16	18	20	22	26	28	30
	1800	6	10	12	16	18	22	24	26	30	32	36
	2100	8	12	14	18	22	24	28	32	34	38	42
	2400	8	12	16	20	24	28	32	36	40	44	48
	2700	10	14	18	22	26	32	36	40	44	48	52
	3000	10	16	20	26	30	34	40	44	50	54	58

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	14	16	18
	1500	4	6	8	10	12	12	14	16	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	12	16	18	20	22	24	28	30
	2400	6	10	12	14	18	20	22	26	28	32	34
	2700	8	10	14	16	20	22	26	28	32	34	38
	3000	8	12	14	18	22	24	28	32	36	38	42

N3C / 2000 PA ULS



ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	4	6	6	8	8	8	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	4	6	8	8	10	12	12	14	16	16
	1800	4	6	8	8	10	12	14	14	16	18	20
	2100	4	6	8	10	12	14	16	18	20	20	22
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	12	14	18	20	22	24	26	28
	3000	6	8	12	14	16	20	22	24	26	30	32

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	10
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	10	12	14	14	16
	2100	4	6	6	8	10	12	12	14	16	16	18
	2400	4	6	8	10	10	12	14	16	18	20	20
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	26

N4C / 3000 PA ULS



ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	26	28
	900	8	10	14	18	20	24	28	30	34	38	40
	1200	10	14	18	22	28	32	36	40	44	50	54
	1500	12	18	22	28	34	40	44	50	56	62	66
	1800	14	20	28	34	40	48	54	60	66	74	80
	2100	16	24	32	40	48	54	62	70	78	86	94
	2400	18	28	36	44	54	62	72	80	88	98	106
	2700	20	30	40	50	60	70	80	90	100	110	120
	3000	22	34	44	56	66	78	88	100	110	122	132

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	12	12	14	16	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	16	18	22	24	26	30	32	36
	1500	8	12	16	20	22	26	30	34	38	40	44
	1800	10	14	18	22	26	32	36	40	44	48	52
	2100	12	16	22	26	32	36	42	46	52	56	62
	2400	12	18	24	30	36	42	48	52	58	64	70
	2700	14	20	26	34	40	46	52	60	66	72	78
	3000	16	22	30	38	44	52	58	66	74	80	88

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	14	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	18	22	24	26	30	32
	1800	8	10	14	16	20	22	26	28	32	34	38
	2100	8	12	16	18	22	26	30	34	36	40	44
	2400	10	14	18	22	26	30	34	38	42	46	50
	2700	10	14	20	24	28	34	38	42	48	52	56
	3000	12	16	22	26	32	36	42	48	52	58	62

N4C / 3000 PA ULS



ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	8	8	8	10	10
	900	4	4	6	6	8	10	10	12	12	14	14
	1200	4	6	8	8	10	12	14	14	16	18	20
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	14	18	20	22	24	26	28
	2100	6	10	12	14	18	20	22	26	28	30	34
	2400	8	10	14	16	20	22	26	28	32	34	38
	2700	8	12	14	18	22	26	28	32	36	40	42
	3000	8	12	16	20	24	28	32	36	40	44	48

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	10	12	14	14	16
	1500	4	6	8	8	10	12	14	14	16	18	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	14	16	18	20	24	26	28	30
	2700	6	10	12	14	18	20	24	26	28	32	34
	3000	8	10	14	16	20	22	26	28	32	34	38

N5C / 4500 PA ULS



ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	10	14	18	20	24	28	30	34	38	40
	900	10	16	20	26	30	36	40	46	50	56	60
	1200	14	20	28	34	40	48	54	60	66	74	80
	1500	18	26	34	42	50	58	66	76	84	92	100
	1800	20	30	40	50	60	70	80	90	100	110	120
	2100	24	36	48	58	70	82	94	104	116	128	140
	2400	28	40	54	66	80	94	106	120	132	146	160
	2700	30	46	60	76	90	104	120	134	150	164	178
	3000	34	50	66	84	100	116	132	150	166	182	198

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	18	20	24	26	30	34	36	40
	1200	10	14	18	22	26	32	36	40	44	48	52
	1500	12	18	22	28	34	38	44	50	56	60	66
	1800	14	20	26	34	40	46	52	60	66	72	78
	2100	16	24	32	38	46	54	62	70	76	84	92
	2400	18	26	36	44	52	62	70	78	88	96	104
	2700	20	30	40	50	60	70	78	88	98	108	118
	3000	22	34	44	56	66	76	88	98	110	120	130

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	14	16	18	20
	900	6	8	10	12	14	18	20	22	24	26	28
	1200	8	10	14	16	20	22	26	28	32	34	38
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	14	20	24	28	34	38	42	48	52	56
	2100	12	18	22	28	34	38	44	50	54	60	66
	2400	14	20	26	32	38	44	50	56	62	68	74
	2700	14	22	28	36	42	50	56	64	70	78	84
	3000	16	24	32	40	48	54	62	70	78	86	94

N5C / 4500 PA ULS



ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	14
	900	4	6	8	10	12	14	14	16	18	20	22
	1200	6	8	10	12	14	18	20	22	24	26	28
	1500	6	10	12	16	18	22	24	28	30	32	36
	1800	8	12	14	18	22	26	28	32	36	40	42
	2100	10	14	18	22	26	30	34	38	42	46	50
	2400	10	14	20	24	28	34	38	42	48	52	56
	2700	12	16	22	28	32	38	42	48	54	58	64
	3000	12	18	24	30	36	42	48	54	58	64	70

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	10	12	14	14	16	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	12	14	18	20	22	24	26	28
	1800	6	10	12	14	18	20	24	26	28	32	34
	2100	8	10	14	18	20	24	26	30	34	36	40
	2400	8	12	16	20	24	26	30	34	38	42	46
	2700	10	14	18	22	26	30	34	38	42	46	50
	3000	10	14	20	24	28	34	38	42	48	52	56

N6C / 6000 PA ULS



ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	10	14	18	22	28	32	36	40	44	50	54
	900	14	20	28	34	40	48	54	60	66	74	80
	1200	18	28	36	44	54	62	72	80	88	98	106
	1500	22	34	44	56	66	78	88	100	110	122	132
	1800	28	40	54	66	80	94	106	120	132	146	160
	2100	32	48	62	78	94	108	124	140	154	170	186
	2400	36	54	72	88	106	124	142	160	176	194	212
	2700	40	60	80	100	120	140	160	178	198	218	238
	3000	44	66	88	110	132	154	176	198	220	242	264

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	10	12	16	18	22	24	26	30	32	36
	900	10	14	18	22	26	32	36	40	44	48	52
	1200	12	18	24	30	36	42	48	52	58	64	70
	1500	16	22	30	38	44	52	58	66	74	80	88
	1800	18	26	36	44	52	62	70	78	88	96	104
	2100	22	32	42	52	62	72	82	92	102	112	122
	2400	24	36	48	58	70	82	94	104	116	128	140
	2700	26	40	52	66	78	92	104	118	130	144	156
	3000	30	44	58	74	88	102	116	130	146	160	174

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	16	20	22	26	28	32	34	38
	1200	10	14	18	22	26	30	34	38	42	46	50
	1500	12	16	22	26	32	36	42	48	52	58	62
	1800	14	20	26	32	38	44	50	56	62	68	74
	2100	16	22	30	36	44	52	58	66	72	80	88
	2400	18	26	34	42	50	58	66	74	84	92	100
	2700	20	28	38	48	56	66	74	84	94	102	112
	3000	22	32	42	52	62	72	84	94	104	114	124

N6C / 6000 PA ULS



ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	14	16	18	20
	900	6	8	10	12	14	18	20	22	24	26	28
	1200	8	10	14	16	20	22	26	28	32	34	38
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	14	20	24	28	34	38	42	48	52	56
	2100	12	18	22	28	34	38	44	50	56	60	66
	2400	14	20	26	32	38	44	50	56	62	68	76
	2700	14	22	28	36	42	50	56	64	70	78	84
	3000	16	24	32	40	48	56	62	70	78	86	94

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	10	12	14	14	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	10	14	16	18	20	24	26	28	30
	1500	8	10	14	16	20	22	26	28	32	34	38
	1800	8	12	16	20	24	26	30	34	38	42	46
	2100	10	14	18	22	26	32	36	40	44	48	52
	2400	10	16	20	26	30	36	40	46	50	56	60
	2700	12	18	24	28	34	40	46	50	56	62	68
	3000	14	20	26	32	38	44	50	56	62	68	74

C1C / 2700 PA ULS



ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	28	30	34	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	36	40	46	50	56	60
	1800	12	18	24	30	36	42	48	54	60	66	72
	2100	14	22	28	36	42	50	56	64	70	78	84
	2400	16	24	32	40	48	56	64	72	80	88	96
	2700	18	28	36	46	54	64	72	82	90	98	108
	3000	20	30	40	50	60	70	80	90	100	110	120

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	12	12	14	16	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	12	14	16	20	22	24	26	30	32
	1500	8	10	14	18	20	24	26	30	34	36	40
	1800	8	12	16	20	24	28	32	36	40	44	48
	2100	10	14	20	24	28	32	38	42	46	52	56
	2400	12	16	22	26	32	38	42	48	52	58	64
	2700	12	18	24	30	36	42	48	54	60	66	72
	3000	14	20	26	34	40	46	52	60	66	72	78

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	10	12	14	14	16	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	12	14	18	20	22	24	26	28
	1800	6	10	12	14	18	20	24	26	28	32	34
	2100	8	10	14	18	20	24	26	30	34	36	40
	2400	8	12	16	20	24	26	30	34	38	42	46
	2700	10	14	18	22	26	30	34	38	42	46	50
	3000	10	14	20	24	28	34	38	42	48	52	56

C1C / 2700 PA ULS



ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	14	16	18
	1500	4	6	8	10	12	14	14	16	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	14	16	18	20	22	26	28	30
	2400	6	10	12	14	18	20	24	26	28	32	34
	2700	8	10	14	16	20	22	26	30	32	36	38
	3000	8	12	14	18	22	26	28	32	36	40	42

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	8	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	14	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	20	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	24	26	28
	2700	6	8	10	14	16	18	20	24	26	28	30
	3000	6	10	12	14	18	20	24	26	28	32	34

C2C / 4000 PA ULS



ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	10	12	16	18	22	24	28	30	34	36
	900	10	14	18	22	28	32	36	40	44	50	54
	1200	12	18	24	30	36	42	48	54	60	66	72
	1500	16	22	30	38	44	52	60	66	74	82	88
	1800	18	28	36	44	54	62	72	80	88	98	106
	2100	22	32	42	52	62	72	82	94	104	114	124
	2400	24	36	48	60	72	82	94	106	118	130	142
	2700	28	40	54	66	80	94	106	120	132	146	160
	3000	30	44	60	74	88	104	118	132	148	162	176

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	26	30	32	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	34	40	44	50	54	58
	1800	12	18	24	30	36	42	48	52	58	64	70
	2100	14	22	28	34	42	48	54	62	68	76	82
	2400	16	24	32	40	48	54	62	70	78	86	94
	2700	18	26	36	44	52	62	70	78	88	96	104
	3000	20	30	40	50	58	68	78	88	98	106	116

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	10	12	14	14	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	14	18	20	22	26	28	32	34
	1500	8	12	14	18	22	24	28	32	36	38	42
	1800	10	14	18	22	26	30	34	38	42	46	50
	2100	10	16	20	24	30	34	40	44	48	54	58
	2400	12	18	22	28	34	40	44	50	56	62	66
	2700	14	20	26	32	38	44	50	56	62	68	74
	3000	14	22	28	36	42	48	56	62	70	76	84

C2C / 4000 PA ULS



ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	14	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	20	22	24	26	30	32
	1800	8	10	14	16	20	22	26	28	32	34	38
	2100	8	12	16	20	22	26	30	34	38	40	44
	2400	10	14	18	22	26	30	34	38	42	46	50
	2700	10	14	20	24	28	34	38	42	48	52	56
	3000	12	16	22	26	32	38	42	48	52	58	62

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	6	8	8	10	10	10
	900	4	4	6	8	8	10	10	12	14	14	16
	1200	4	6	8	10	10	12	14	16	18	20	20
	1500	6	8	10	12	14	16	18	20	22	24	26
	1800	6	8	10	14	16	18	20	24	26	28	30
	2100	6	10	12	16	18	22	24	26	30	32	36
	2400	8	10	14	18	20	24	28	30	34	38	40
	2700	8	12	16	20	24	26	30	34	38	42	46
	3000	10	14	18	22	26	30	34	38	42	46	50

C3C / 5900 PA ULS



ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	10	14	18	22	26	32	36	40	44	48	52
	900	14	20	26	34	40	46	52	60	66	72	78
	1200	18	26	36	44	52	62	70	78	88	96	104
	1500	22	34	44	54	66	76	88	98	108	120	130
	1800	26	40	52	66	78	92	104	118	130	144	156
	2100	32	46	62	76	92	106	122	136	152	168	182
	2400	36	52	70	88	104	122	140	156	174	190	208
	2700	40	60	78	98	118	136	156	176	196	214	234
	3000	44	66	88	108	130	152	174	196	216	238	260

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	10	12	16	18	20	24	26	30	32	36
	900	10	14	18	22	26	30	36	40	44	48	52
	1200	12	18	24	30	36	40	46	52	58	64	70
	1500	16	22	30	36	44	50	58	64	72	80	86
	1800	18	26	36	44	52	60	70	78	86	94	104
	2100	20	30	40	50	60	70	80	90	100	110	120
	2400	24	36	46	58	70	80	92	104	114	126	138
	2700	26	40	52	64	78	90	104	116	128	142	154
	3000	30	44	58	72	86	100	114	128	142	158	172

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	16	20	22	26	28	32	34	38
	1200	10	14	18	22	26	30	34	38	42	46	50
	1500	12	16	22	26	32	36	42	46	52	56	62
	1800	14	20	26	32	38	44	50	56	62	68	74
	2100	16	22	30	36	44	50	58	64	72	78	86
	2400	18	26	34	42	50	58	66	74	82	90	98
	2700	20	28	38	46	56	64	74	82	92	100	110
	3000	22	32	42	52	62	72	82	92	102	112	122

C3C / 5900 PA ULS



ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	14	16	18	20
	900	6	8	10	12	14	16	20	22	24	26	28
	1200	8	10	14	16	20	22	26	28	32	34	38
	1500	8	12	16	20	24	28	32	36	38	42	46
	1800	10	14	20	24	28	32	38	42	46	52	56
	2100	12	16	22	28	32	38	44	48	54	60	64
	2400	14	20	26	32	38	44	50	56	62	68	74
	2700	14	22	28	36	42	48	56	62	70	76	82
	3000	16	24	32	38	46	54	62	70	76	84	92

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	10	12	14	14	16
	900	4	6	8	10	12	14	16	18	20	20	22
	1200	6	8	10	14	16	18	20	22	26	28	30
	1500	8	10	14	16	20	22	26	28	32	34	38
	1800	8	12	16	20	22	26	30	34	38	40	44
	2100	10	14	18	22	26	30	34	40	44	48	52
	2400	10	16	20	26	30	34	40	44	50	54	60
	2700	12	18	22	28	34	40	44	50	56	60	66
	3000	14	20	26	32	38	44	50	56	62	68	74

C4C / 8000 PA ULS



ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	12	18	24	30	36	42	48	54	60	66	72
	900	18	28	36	44	54	62	72	80	88	98	106
	1200	24	36	48	60	72	82	94	106	118	130	142
	1500	30	44	60	74	88	104	118	132	148	162	176
	1800	36	54	72	88	106	124	142	160	176	194	212
	2100	42	62	82	104	124	144	164	186	206	226	246
	2400	48	72	94	118	142	164	188	212	236	258	282
	2700	54	80	106	132	160	186	212	238	264	290	318
	3000	60	88	118	148	176	206	236	264	294	322	352

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	12	16	20	24	28	32	36	40	44	48
	900	12	18	24	30	36	42	48	52	58	64	70
	1200	16	24	32	40	48	54	62	70	78	86	94
	1500	20	30	40	50	58	68	78	88	98	106	116
	1800	24	36	48	58	70	82	94	104	116	128	140
	2100	28	42	54	68	82	96	108	122	136	150	162
	2400	32	48	62	78	94	108	124	140	154	170	186
	2700	36	52	70	88	104	122	140	156	174	192	208
	3000	40	58	78	98	116	136	154	174	194	212	232

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	10	12	14	18	20	22	26	28	32	34
	900	10	14	18	22	26	30	34	38	42	46	50
	1200	12	18	22	28	34	40	44	50	56	62	66
	1500	14	22	28	36	42	48	56	62	70	76	84
	1800	18	26	34	42	50	58	66	74	84	92	100
	2100	20	30	40	48	58	68	78	88	96	106	116
	2400	22	34	44	56	66	78	88	100	110	122	132
	2700	26	38	50	62	74	88	100	112	124	136	148
	3000	28	42	56	70	84	96	110	124	138	152	166

C4C / 8000 PA ULS



ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	16	20	22	26	28	32	34	38
	1200	10	14	18	22	26	30	34	38	42	46	50
	1500	12	16	22	26	32	38	42	48	52	58	62
	1800	14	20	26	32	38	44	50	56	62	68	76
	2100	16	22	30	38	44	52	58	66	74	80	88
	2400	18	26	34	42	50	58	66	76	84	92	100
	2700	20	28	38	48	56	66	76	84	94	102	112
	3000	22	32	42	52	62	74	84	94	104	114	124

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	10	12	14	16	18	20	20
	900	6	8	10	14	16	18	20	24	26	28	30
	1200	8	10	14	18	20	24	28	30	34	38	40
	1500	10	14	18	22	26	30	34	38	42	46	50
	1800	10	16	20	26	30	36	40	46	50	56	60
	2100	12	18	24	30	36	42	46	52	58	64	70
	2400	14	20	28	34	40	46	54	60	66	74	80
	2700	16	24	30	38	46	52	60	68	74	82	90
	3000	18	26	34	42	50	58	66	74	84	92	100

FIXING SIZE GUIDE

MASONRY BUILDINGS

The following tables show the minimum number of fasteners required to hold a window into a brick or blockwork opening.

The anchor manufacturer's installation instructions should be followed at all times.

Anchoring into pre-manufactured masonry units such as concrete blocks, wire cut extruded clay brick and pressed solid bricks requires a different approach to anchoring into solid in-situ concrete or precast concrete units. The anchor must firmly clamp a fixture to the face of the substrate without splitting it or causing other damage. The capacity of the anchors is frequently limited by the strength of the substrate, and the strength of the various units available on the market varies from manufacturer to manufacturer and from region to region within any one manufacturer. Also being discrete units rather than a continuous slab means the anchor will always be in close proximity to an edge of that individual unit whilst also possibly being centrally placed within the overall structure.

Ideally all anchors into these pre-manufactured masonry units should be in the centre of the block or brick and in the case of hollow units such as wire cut

bricks and concrete blocks the anchors should be placed in the solid section of the unit, but it is not always practical to position fixtures to ensure this.

ULS wind pressures are as per AS 2047-2014 Windows and External Glazed Doors in Buildings and AS 4055-2012 Wind Loads for Housing.

Windows should be packed between the reveals and frame (except at lintels). Failure to do so will greatly reduce the strength of the fasteners used.

For wide windows that may need to be fastened at even spacing all round, the transfer of wind lateral loads into heads and sills of wall frames may need to be designed. Consult the manufacturer. Applies to both timber and light gauge steel frames.

It is assumed that the load is distributed equally to all fasteners. Manufacturers generally recommend that windows be fastened through the jambs. Wide windows may need to be fastened through the sill.

For more information, refer to the AGWA Guide for Installation.



N1 / 600 PA ULS

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	4	6	6	6	6	8
	2100	4	4	4	4	4	6	6	6	8	8	8
	2400	4	4	4	4	6	6	6	8	8	8	10
	2700	4	4	4	6	6	6	8	8	10	10	10
	3000	4	4	4	6	6	8	8	10	10	10	12

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	6
	2700	4	4	4	4	4	4	4	4	6	6	6
	3000	4	4	4	4	4	4	4	6	6	6	6

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

N1 / 600 PA ULS

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

ULS WIND PRESSURE: 600 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

N2 / N1C / 900 PA ULS

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	8	8	10	10	12	14	14	16
	3000	4	6	6	8	10	10	12	14	14	16	18

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	6
	1800	4	4	4	4	4	4	4	4	6	6	6
	2100	4	4	4	4	4	4	4	6	6	6	6
	2400	4	4	4	4	4	4	6	6	6	6	8
	2700	4	4	4	4	4	6	6	6	8	8	8
	3000	4	4	4	4	6	6	6	8	8	8	10

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	6
	2400	4	4	4	4	4	4	4	4	4	6	6
	2700	4	4	4	4	4	4	4	4	6	6	6
	3000	4	4	4	4	4	4	4	6	6	6	6

N2 / N1C / 900 PA ULS

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	6	6
	3000	4	4	4	4	4	4	4	4	6	6	6

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

ULS WIND PRESSURE: 900 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	4

N2C / 1300 PA ULS

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	6	6	6	6	8	8
	1200	4	4	4	4	6	6	8	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	10	10	12	12	14	16
	2100	4	6	6	8	10	10	12	14	14	16	18
	2400	4	6	8	8	10	12	14	16	16	18	20
	2700	4	6	8	10	12	14	16	16	18	20	22
	3000	4	6	8	10	12	14	16	18	20	22	24

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	6	6	6	6	8	8
	2100	4	4	4	4	6	6	6	8	8	8	10
	2400	4	4	4	4	6	6	8	8	8	10	10
	2700	4	4	4	6	6	8	8	8	10	10	12
	3000	4	4	4	6	6	8	8	10	10	12	12

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	6
	1800	4	4	4	4	4	4	4	4	6	6	6
	2100	4	4	4	4	4	4	4	6	6	6	6
	2400	4	4	4	4	4	4	6	6	6	8	8
	2700	4	4	4	4	4	6	6	6	8	8	8
	3000	4	4	4	4	6	6	6	8	8	8	10

N2C / 1300 PA ULS

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	6
	2100	4	4	4	4	4	4	4	4	6	6	6
	2400	4	4	4	4	4	4	4	6	6	6	6
	2700	4	4	4	4	4	4	6	6	6	6	8
	3000	4	4	4	4	4	6	6	6	6	8	8

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	6	6
	3000	4	4	4	4	4	4	4	4	6	6	6

ULS WIND PRESSURE: 1300 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	4
	3000	4	4	4	4	4	4	4	4	4	4	6

N3 / 1400 PA ULS

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	14	16
	2100	4	6	6	8	10	12	12	14	16	18	18
	2400	4	6	8	10	12	12	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	26

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	6	8	8	10	10
	2400	4	4	4	6	6	6	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12
	3000	4	4	6	6	8	8	10	10	12	12	14

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	6	6
	1800	4	4	4	4	4	4	4	6	6	6	6
	2100	4	4	4	4	4	4	6	6	6	6	8
	2400	4	4	4	4	4	6	6	6	8	8	8
	2700	4	4	4	4	6	6	6	8	8	8	10
	3000	4	4	4	4	6	6	8	8	8	10	10

N3 / 1400 PA ULS

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	6	6
	2100	4	4	4	4	4	4	4	6	6	6	6
	2400	4	4	4	4	4	4	6	6	6	6	8
	2700	4	4	4	4	4	6	6	6	6	8	8
	3000	4	4	4	4	4	6	6	6	8	8	8

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	6
	2700	4	4	4	4	4	4	4	4	4	6	6
	3000	4	4	4	4	4	4	4	4	6	6	6

ULS WIND PRESSURE: 1400 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	4
	2400	4	4	4	4	4	4	4	4	4	4	4
	2700	4	4	4	4	4	4	4	4	4	4	6
	3000	4	4	4	4	4	4	4	4	4	6	6

N4 / N3C / 2000 PA ULS

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	10	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	16
	1500	4	6	6	8	10	12	12	14	16	18	18
	1800	4	6	8	10	12	14	16	18	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	16	18	20	22	24	28	30
	2700	6	10	12	14	18	20	22	26	28	30	34
	3000	6	10	12	16	18	22	24	28	30	34	36

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	10	10
	1800	4	4	4	6	6	8	8	10	10	10	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	6	8	10	10	12	12	14	16
	2700	4	6	6	8	10	10	12	14	14	16	18
	3000	4	6	6	8	10	12	12	14	16	18	18

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	8	8	8	10	10
	2400	4	4	4	6	6	8	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12
	3000	4	4	6	6	8	8	10	10	12	12	14

N4 / N3C / 2000 PA ULS

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	4	6	6	6	8	8
	2100	4	4	4	4	4	6	6	6	8	8	8
	2400	4	4	4	4	6	6	6	8	8	10	10
	2700	4	4	4	6	6	6	8	8	10	10	10
	3000	4	4	4	6	6	8	8	10	10	12	12

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	6	6
	2100	4	4	4	4	4	4	4	4	6	6	6
	2400	4	4	4	4	4	4	6	6	6	6	8
	2700	4	4	4	4	4	4	6	6	6	8	8
	3000	4	4	4	4	4	6	6	6	8	8	8

ULS WIND PRESSURE: 2000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	6	6
	2400	4	4	4	4	4	4	4	4	6	6	6
	2700	4	4	4	4	4	4	4	6	6	6	6
	3000	4	4	4	4	4	4	6	6	6	6	8

N5 / N4C / 3000 PA ULS

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	10	12
	900	4	6	6	8	10	10	12	14	14	16	18
	1200	4	6	8	10	12	14	16	18	18	20	22
	1500	6	8	10	12	14	16	18	22	24	26	28
	1800	6	10	12	14	18	20	22	26	28	30	34
	2100	8	10	14	16	20	24	26	30	32	36	38
	2400	8	12	16	18	22	26	30	34	36	40	44
	2700	10	14	18	22	26	30	34	38	42	46	50
	3000	10	14	18	24	28	32	36	42	46	50	56

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	8	10
	1200	4	4	4	6	6	8	8	10	10	10	12
	1500	4	4	6	6	8	8	10	12	12	14	14
	1800	4	6	6	8	10	10	12	14	14	16	18
	2100	4	6	8	8	10	12	14	16	16	18	20
	2400	4	6	8	10	12	14	16	18	18	20	22
	2700	6	8	10	12	14	16	18	20	22	24	26
	3000	6	8	10	12	14	16	18	22	24	26	28

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	6	6	6	8	8	10	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	10	10	12	12	14	14
	2400	4	4	6	8	8	10	12	12	14	16	16
	2700	4	6	6	8	10	12	12	14	16	18	18
	3000	4	6	8	10	10	12	14	16	18	18	20

N5 / N4C / 3000 PA ULS

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	14	14
	2700	4	4	6	8	8	10	10	12	14	14	16
	3000	4	6	6	8	10	10	12	14	14	16	18

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	4	6	6	6	8	8
	2100	4	4	4	4	4	6	6	6	8	8	8
	2400	4	4	4	4	6	6	8	8	8	10	10
	2700	4	4	4	6	6	6	8	8	10	10	12
	3000	4	4	4	6	6	8	8	10	10	12	12

ULS WIND PRESSURE: 3000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	6	6	6
	1800	4	4	4	4	4	4	4	6	6	6	6
	2100	4	4	4	4	4	6	6	6	6	8	8
	2400	4	4	4	4	4	6	6	6	8	8	8
	2700	4	4	4	4	6	6	6	8	8	10	10
	3000	4	4	4	6	6	6	8	8	10	10	10

N5C / 4500 PA ULS

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	10	12	14	14	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	14	18	20	22	26	28	30	34
	1500	8	12	14	18	22	24	28	32	34	38	42
	1800	10	14	18	22	26	30	34	38	42	46	50
	2100	10	16	20	24	30	34	38	44	48	52	58
	2400	12	18	22	28	34	38	44	50	54	60	66
	2700	14	20	26	32	38	44	50	56	62	68	74
	3000	14	22	28	34	42	48	54	62	68	76	82

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	14	16	18
	1500	4	6	8	10	12	12	14	16	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	12	16	18	20	22	24	26	30
	2400	6	10	12	14	18	20	22	26	28	30	34
	2700	8	10	14	16	20	22	26	28	32	34	38
	3000	8	12	14	18	22	24	28	32	34	38	42

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	10	10
	1200	4	4	4	6	6	8	8	10	10	12	12
	1500	4	4	6	8	8	10	10	12	14	14	16
	1800	4	6	6	8	10	12	12	14	16	18	18
	2100	4	6	8	10	12	14	14	16	18	20	22
	2400	4	6	8	10	12	14	16	18	20	22	24
	2700	6	8	10	12	14	16	18	20	24	26	28
	3000	6	8	10	14	16	18	20	24	26	28	30

N5C / 4500 PA ULS

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	10
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	10	12	14	14	16
	2100	4	6	6	8	10	12	12	14	16	16	18
	2400	4	6	8	10	10	12	14	16	18	20	20
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	26

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	12
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	12	12	14	14
	2700	4	4	6	8	8	10	12	12	14	16	16
	3000	4	6	6	8	10	10	12	14	16	16	18

ULS WIND PRESSURE: 4500 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	6	8	8	10	10
	2100	4	4	4	6	6	8	8	8	10	10	12
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	10	12	14	14
	3000	4	4	6	8	8	10	10	12	14	14	16

N6 / 4000 PA ULS

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	16
	900	4	6	8	10	12	14	16	18	18	20	22
	1200	6	8	10	12	16	18	20	22	24	28	30
	1500	6	10	12	16	18	22	24	28	30	34	36
	1800	8	12	16	18	22	26	30	34	36	40	44
	2100	10	14	18	22	26	30	34	38	42	48	52
	2400	10	16	20	24	30	34	40	44	48	54	58
	2700	12	18	22	28	34	38	44	50	54	60	66
	3000	12	18	24	30	36	42	48	54	60	66	72

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	10	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	16
	1500	4	6	6	8	10	12	12	14	16	18	18
	1800	4	6	8	10	12	14	16	18	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	16	18	20	22	24	28	30
	2700	6	10	12	14	18	20	22	26	28	30	34
	3000	6	10	12	16	18	22	24	28	30	34	36

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	8	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	8	8	10	12	14	14	16	18	20
	2400	4	6	8	10	12	14	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	28

N6 / 4000 PA ULS

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	10	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	10	12	14	16	18	20	20
	3000	4	6	8	10	12	14	16	18	20	22	24

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	8	8	8	10	10
	2100	4	4	4	6	6	8	8	8	10	10	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	6	8	8	10	12	12	14	14
	3000	4	4	6	8	8	10	12	12	14	14	16

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	8	8	8	10	10
	2400	4	4	4	6	6	8	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12
	3000	4	4	6	6	8	8	10	10	12	12	14

N6C / 6000 PA ULS

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	18	20	22
	900	6	10	12	14	18	20	22	26	28	30	34
	1200	8	12	16	18	22	26	30	34	36	40	44
	1500	10	14	18	24	28	32	36	42	46	50	56
	1800	12	18	22	28	34	38	44	50	56	60	66
	2100	14	20	26	32	38	46	52	58	64	70	76
	2400	16	22	30	36	44	52	58	66	72	80	88
	2700	18	26	34	42	50	58	66	74	82	90	98
	3000	18	28	36	46	56	64	72	82	90	100	110

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	10	12
	900	4	6	6	8	10	10	12	14	14	16	18
	1200	4	6	8	10	12	14	16	18	18	20	22
	1500	6	8	10	12	14	16	18	22	24	26	28
	1800	6	10	12	14	18	20	22	26	28	30	34
	2100	8	10	14	16	20	24	26	30	32	36	38
	2400	8	12	16	18	22	26	30	34	36	40	44
	2700	10	14	18	22	26	30	34	38	42	46	50
	3000	10	14	18	24	28	32	36	42	46	50	56

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	16	16
	1500	4	6	8	10	10	12	14	16	18	18	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	18	20	22	24	26	28
	2400	6	8	12	14	16	20	22	24	28	30	32
	2700	6	10	12	16	18	22	24	28	30	34	36
	3000	8	10	14	18	20	24	28	30	34	36	40

N6C / 6000 PA ULS

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	8	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	14	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	20	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	24	26	28
	2700	6	8	10	14	16	18	20	24	26	28	30
	3000	6	10	12	14	18	20	24	26	28	32	34

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	8	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	12	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	8	8	10	12	14	14	16	18	20
	2700	4	6	8	10	12	12	14	16	18	20	22
	3000	4	6	8	10	12	14	16	18	20	22	24

ULS WIND PRESSURE: 6000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	6	6	6	8	8	10	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	10	10	12	12	14	14
	2400	4	4	6	8	8	10	12	12	14	16	16
	2700	4	6	6	8	10	12	12	14	16	18	18
	3000	4	6	8	10	10	12	14	16	18	18	20

C1 / 1800 PA ULS

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	18	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	14	16	18	20	22	26	28	30
	3000	6	10	12	14	18	20	22	26	28	30	34

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	6	8	8	10	10	10
	2100	4	4	4	6	6	8	8	10	10	12	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	8	8	10	10	12	14	14	16
	3000	4	6	6	8	10	10	12	14	14	16	18

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	6	6
	1500	4	4	4	4	4	4	4	6	6	6	6
	1800	4	4	4	4	4	6	6	6	6	8	8
	2100	4	4	4	4	6	6	6	8	8	8	10
	2400	4	4	4	4	6	6	8	8	8	10	10
	2700	4	4	4	6	6	8	8	8	10	10	12
	3000	4	4	4	6	6	8	8	10	10	12	12

C1 / 1800 PA ULS

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	6	6	6
	1800	4	4	4	4	4	4	4	6	6	6	6
	2100	4	4	4	4	4	6	6	6	6	8	8
	2400	4	4	4	4	4	6	6	6	8	8	8
	2700	4	4	4	4	6	6	6	8	8	10	10
	3000	4	4	4	6	6	6	8	8	10	10	10

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	6
	2100	4	4	4	4	4	4	4	4	4	6	6
	2400	4	4	4	4	4	4	4	6	6	6	6
	2700	4	4	4	4	4	4	6	6	6	6	8
	3000	4	4	4	4	4	4	6	6	6	8	8

ULS WIND PRESSURE: 1800 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	4	4
	1800	4	4	4	4	4	4	4	4	4	4	4
	2100	4	4	4	4	4	4	4	4	4	4	6
	2400	4	4	4	4	4	4	4	4	4	6	6
	2700	4	4	4	4	4	4	4	4	6	6	6
	3000	4	4	4	4	4	4	4	6	6	6	6

C2 / C1C / 2700 PA ULS

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	6	8	8	10	10	10
	900	4	4	6	8	8	10	10	12	14	14	16
	1200	4	6	8	10	10	12	14	16	18	18	20
	1500	6	8	10	12	14	16	18	20	22	24	26
	1800	6	8	10	14	16	18	20	22	26	28	30
	2100	6	10	12	16	18	20	24	26	30	32	36
	2400	8	10	14	18	20	24	26	30	34	36	40
	2700	8	12	16	20	22	26	30	34	38	42	44
	3000	10	14	18	22	26	30	34	38	42	46	50

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	10
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	10	12	14	14	16
	2100	4	6	6	8	10	10	12	14	16	16	18
	2400	4	6	8	10	10	12	14	16	18	18	20
	2700	4	6	8	10	12	14	16	18	20	22	22
	3000	6	8	10	12	14	16	18	20	22	24	26

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	6	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	10	10
	1800	4	4	4	6	6	8	8	8	10	10	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	6	8	10	10	12	12	14	16
	2700	4	4	6	8	8	10	12	12	14	16	16
	3000	4	6	6	8	10	12	12	14	16	18	18

C2 / C1C / 2700 PA ULS

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	6	8	8	10	10
	2100	4	4	4	6	6	8	8	8	10	10	12
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	12	12	14	14
	3000	4	4	6	8	8	10	10	12	14	14	16

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	6
	1500	4	4	4	4	4	4	4	4	6	6	6
	1800	4	4	4	4	4	4	6	6	6	6	8
	2100	4	4	4	4	4	6	6	6	6	8	8
	2400	4	4	4	4	6	6	6	8	8	8	10
	2700	4	4	4	4	6	6	8	8	8	10	10
	3000	4	4	4	6	6	6	8	8	10	10	12

ULS WIND PRESSURE: 2700 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	4	4	4
	1500	4	4	4	4	4	4	4	4	4	6	6
	1800	4	4	4	4	4	4	4	4	6	6	6
	2100	4	4	4	4	4	4	6	6	6	6	8
	2400	4	4	4	4	4	6	6	6	6	8	8
	2700	4	4	4	4	4	6	6	6	8	8	8
	3000	4	4	4	4	6	6	6	8	8	10	10

C3 / C2C / 4000 PA ULS

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	16
	900	4	6	8	10	12	14	16	18	18	20	22
	1200	6	8	10	12	16	18	20	22	24	28	30
	1500	6	10	12	16	18	22	24	28	30	34	36
	1800	8	12	16	18	22	26	30	34	36	40	44
	2100	10	14	18	22	26	30	34	38	42	48	52
	2400	10	16	20	24	30	34	40	44	48	54	58
	2700	12	18	22	28	34	38	44	50	54	60	66
	3000	12	18	24	30	36	42	48	54	60	66	72

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	10	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	16
	1500	4	6	6	8	10	12	12	14	16	18	18
	1800	4	6	8	10	12	14	16	18	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	16	18	20	22	24	28	30
	2700	6	10	12	14	18	20	22	26	28	30	34
	3000	6	10	12	16	18	22	24	28	30	34	36

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	8	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	8	8	10	12	14	14	16	18	20
	2400	4	6	8	10	12	14	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	28

C3 / C2C / 4000 PA ULS

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	10	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	10	12	14	16	18	20	20
	3000	4	6	8	10	12	14	16	18	20	22	24

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	8	8	8	10	10
	2100	4	4	4	6	6	8	8	8	10	10	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	6	8	8	10	12	12	14	14
	3000	4	4	6	8	8	10	12	12	14	14	16

ULS WIND PRESSURE: 4000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	8	8	8	10	10
	2400	4	4	4	6	6	8	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12
	3000	4	4	6	6	8	8	10	10	12	12	14

C3C / 5900 PA ULS

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	16	18	20	22
	900	6	8	12	14	16	20	22	24	28	30	32
	1200	8	12	16	18	22	26	30	32	36	40	44
	1500	10	14	18	24	28	32	36	40	46	50	54
	1800	12	16	22	28	32	38	44	48	54	60	64
	2100	14	20	26	32	38	44	50	56	62	70	76
	2400	16	22	30	36	44	50	58	64	72	78	86
	2700	16	24	32	40	48	56	64	72	80	88	96
	3000	18	28	36	46	54	62	72	80	90	98	108

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	16	16
	1200	4	6	8	10	12	14	16	16	18	20	22
	1500	6	8	10	12	14	16	18	20	24	26	28
	1800	6	8	12	14	16	20	22	24	28	30	32
	2100	8	10	14	16	20	22	26	28	32	36	38
	2400	8	12	16	18	22	26	30	32	36	40	44
	2700	8	12	16	20	24	28	32	36	40	44	48
	3000	10	14	18	24	28	32	36	40	46	50	54

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	16	16
	1500	4	6	8	10	10	12	14	16	18	18	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	16	20	22	24	26	28
	2400	6	8	12	14	16	20	22	24	26	30	32
	2700	6	10	12	16	18	22	24	28	30	32	36
	3000	8	10	14	18	20	24	26	30	34	36	40

C3C / 5900 PA ULS

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	6	6	6	8	8	10	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	6	6	8	10	10	12	14	14	16	18
	1800	4	6	8	10	10	12	14	16	18	18	20
	2100	4	6	8	10	12	14	16	18	20	22	24
	2400	6	8	10	12	14	16	18	20	22	24	28
	2700	6	8	10	14	16	18	20	24	26	28	30
	3000	6	10	12	14	18	20	22	26	28	30	34

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	12	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	12	12	14	16	18	20	22
	3000	4	6	8	10	12	14	16	18	20	22	24

ULS WIND PRESSURE: 5900 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	6	6	6	8	8	10	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	8	10	12	12	14	14
	2400	4	4	6	8	8	10	12	12	14	16	16
	2700	4	6	6	8	10	12	12	14	16	16	18
	3000	4	6	8	10	10	12	14	16	18	18	20

C4 / 5300 PA ULS

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	16	16	18	20
	900	6	8	10	12	16	18	20	22	24	28	30
	1200	8	10	14	16	20	24	26	30	32	36	40
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	16	20	24	30	34	40	44	48	54	58
	2100	12	18	24	28	34	40	46	52	56	62	68
	2400	14	20	26	32	40	46	52	58	64	70	78
	2700	16	22	30	36	44	52	58	66	72	80	86
	3000	16	24	32	40	48	56	64	72	80	88	96

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	8	8	8	10	10
	900	4	4	6	6	8	10	10	12	12	14	16
	1200	4	6	8	8	10	12	14	16	16	18	20
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	16	18	20	22	24	28	30
	2100	6	10	12	14	18	20	24	26	28	32	34
	2400	8	10	14	16	20	24	26	30	32	36	40
	2700	8	12	16	18	22	26	30	34	36	40	44
	3000	8	12	16	20	24	28	32	36	40	44	48

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	8	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	14
	1500	4	6	6	8	10	12	12	14	16	16	18
	1800	4	6	8	10	12	14	14	16	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	14	18	20	22	24	26	28
	2700	6	8	12	14	16	20	22	24	28	30	32
	3000	6	10	12	16	18	22	24	28	30	32	36

C4 / 5300 PA ULS

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	10	10
	1200	4	4	4	6	6	8	8	10	10	12	12
	1500	4	4	6	8	8	10	10	12	14	14	16
	1800	4	6	6	8	10	12	12	14	16	18	18
	2100	4	6	8	10	12	12	14	16	18	20	22
	2400	4	6	8	10	12	14	16	18	20	22	24
	2700	6	8	10	12	14	16	18	20	24	26	28
	3000	6	8	10	14	16	18	20	24	26	28	30

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	6	8	8	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	6	8	10	10	12	12	14	16
	2400	4	6	6	8	10	10	12	14	14	16	18
	2700	4	6	8	8	10	12	14	14	16	18	20
	3000	4	6	8	10	12	12	14	16	18	20	22

ULS WIND PRESSURE: 5300 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	6	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	8	10
	1800	4	4	4	6	6	8	8	8	10	10	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	6	8	10	10	12	12	14	14
	2700	4	4	6	8	8	10	12	12	14	16	16
	3000	4	6	6	8	10	12	12	14	16	16	18

C4C / 8000 PA ULS

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 5 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	16	18	20	22	24	28	30
	900	8	12	16	18	22	26	30	34	36	40	44
	1200	10	16	20	24	30	34	40	44	48	54	58
	1500	12	18	24	30	36	42	48	54	60	66	72
	1800	16	22	30	36	44	52	58	66	72	80	88
	2100	18	26	34	42	52	60	68	76	84	94	102
	2400	20	30	40	48	58	68	78	88	96	106	116
	2700	22	34	44	54	66	76	88	98	108	120	130
	3000	24	36	48	60	72	84	96	108	120	132	144

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 6 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	16
	900	4	6	8	10	12	14	16	18	18	20	22
	1200	6	8	10	12	16	18	20	22	24	28	30
	1500	6	10	12	16	18	22	24	28	30	34	36
	1800	8	12	16	18	22	26	30	34	36	40	44
	2100	10	14	18	22	26	30	34	38	42	48	52
	2400	10	16	20	24	30	34	40	44	48	54	58
	2700	12	18	22	28	34	38	44	50	54	60	66
	3000	12	18	24	30	36	42	48	54	60	66	72

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 7 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	16	16
	1200	4	6	8	10	12	14	14	16	18	20	22
	1500	6	8	10	12	14	16	18	20	22	24	28
	1800	6	8	12	14	16	20	22	24	28	30	32
	2100	8	10	14	16	20	22	26	28	32	34	38
	2400	8	12	14	18	22	26	28	32	36	40	42
	2700	8	12	16	20	24	28	32	36	40	44	48
	3000	10	14	18	22	28	32	36	40	44	48	54

C4C / 8000 PA ULS

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 8 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	10	10
	900	4	4	6	6	8	8	10	10	12	14	14
	1200	4	6	6	8	10	12	12	14	16	18	18
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	14	16	18	20	24	26	28
	2100	6	8	12	14	16	20	22	24	26	30	32
	2400	6	10	12	16	18	22	24	28	30	34	36
	2700	8	10	14	18	20	24	28	30	34	38	40
	3000	8	12	16	20	24	26	30	34	38	42	46

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 10 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	4	6	6	8	8	8	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	4	6	8	8	10	12	12	14	14	16
	1800	4	6	8	8	10	12	14	14	16	18	20
	2100	4	6	8	10	12	14	16	16	18	20	22
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	12	14	16	20	22	24	26	28
	3000	6	8	12	14	16	18	22	24	26	28	32

ULS WIND PRESSURE: 8000 PA, **ANCHOR SIZE: 12 MM**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	8	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	8	8	10	12	14	14	16	18	20
	2400	4	6	8	10	12	14	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	28

FIXING SIZE GUIDE

LIGHTWEIGHT STEEL FRAMED BUILDINGS

The following tables show the minimum number of fasteners required to hold a window into a lightweight steel frame.

These tables have been derived using load determined from AS/NZS 4600-2018 for cold-form steel structures, Section 5.4 (Screwed connections). Please note steel studs considered for the purpose of this guide is **G550 grade** steel with a minimum Base Metal Thickness (BMT) of 0.55 mm.

ULS wind pressures are as per AS 2047-2014 Windows and External Glazed Doors in Buildings and AS 4055-2012 Wind Loads for Housing.

Windows should be packed between the reveals and frame (except at lintels). Failure to do so will greatly reduce the strength of the fasteners used.

For all connections, screws should extend through the steel a minimum of three exposed threads. Screws should penetrate individual components of a connection without causing permanent separation between the components.

It is assumed that the load is distributed equally to all fasteners. Manufacturers generally recommend that windows be fastened through the jambs. Wide windows may need to be fastened through the sill.

For wide windows that may need to be fastened at even spacing all round, the transfer of window lateral loads into heads and sills of wall frames may need to be designed. Consult the manufacture. Applies to both timber and light gauge steel frames.

For more information, refer to the AGWA Guide for Installation.



N1C / 900 PA ULS



ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	8	8	10	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	8	8	10	10	12	14	14	16
	2400	4	6	6	8	10	10	12	14	16	16	18
	2700	4	6	8	10	10	12	14	16	18	18	20
	3000	4	6	8	10	12	14	16	18	18	20	22

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	6	6	6
	1200	4	4	4	4	4	6	6	6	6	8	8
	1500	4	4	4	4	6	6	6	8	8	10	10
	1800	4	4	4	6	6	8	8	8	10	10	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	6	8	10	10	12	12	14	16
	2700	4	4	6	8	8	10	12	12	14	16	16
	3000	4	6	6	8	10	12	12	14	16	18	18

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	6	6
	1200	4	4	4	4	4	4	6	6	6	6	8
	1500	4	4	4	4	4	6	6	6	8	8	8
	1800	4	4	4	4	6	6	8	8	8	10	10
	2100	4	4	4	6	6	8	8	10	10	10	12
	2400	4	4	6	6	8	8	10	10	12	12	14
	2700	4	4	6	6	8	10	10	12	12	14	14
	3000	4	4	6	8	8	10	12	12	14	16	16

N1C / 900 PA ULS



ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	6
	1200	4	4	4	4	4	4	4	6	6	6	6
	1500	4	4	4	4	4	6	6	6	6	8	8
	1800	4	4	4	4	6	6	6	8	8	8	10
	2100	4	4	4	6	6	6	8	8	10	10	10
	2400	4	4	4	6	6	8	8	10	10	12	12
	2700	4	4	6	6	8	8	10	10	12	12	14
	3000	4	4	6	6	8	10	10	12	12	14	16

ULS WIND PRESSURE: 900 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	4	4	4	4
	1200	4	4	4	4	4	4	4	4	6	6	6
	1500	4	4	4	4	4	4	6	6	6	6	8
	1800	4	4	4	4	4	6	6	6	8	8	8
	2100	4	4	4	4	6	6	6	8	8	10	10
	2400	4	4	4	6	6	6	8	8	10	10	12
	2700	4	4	4	6	6	8	8	10	10	12	12
	3000	4	4	6	6	8	8	10	10	12	12	14

N2C / 1300 PA ULS



ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	4	6	6	8	8	8	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	4	6	8	8	10	12	12	14	16	16
	1800	4	6	8	8	10	12	14	14	16	18	20
	2100	4	6	8	10	12	14	16	18	18	20	22
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	12	14	18	20	22	24	26	28
	3000	6	8	12	14	16	18	22	24	26	30	32

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	6	6	6
	900	4	4	4	4	4	6	6	6	8	8	8
	1200	4	4	4	6	6	6	8	8	10	10	12
	1500	4	4	6	6	8	8	10	10	12	12	14
	1800	4	4	6	8	8	10	12	12	14	16	16
	2100	4	6	6	8	10	12	12	14	16	18	18
	2400	4	6	8	10	12	12	14	16	18	20	22
	2700	4	6	8	10	12	14	16	18	20	22	24
	3000	6	8	10	12	14	16	18	20	22	24	26

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	6	6
	900	4	4	4	4	4	4	6	6	6	8	8
	1200	4	4	4	4	6	6	6	8	8	10	10
	1500	4	4	4	6	6	8	8	10	10	12	12
	1800	4	4	6	6	8	8	10	12	12	14	14
	2100	4	4	6	8	8	10	12	12	14	16	16
	2400	4	6	6	8	10	12	12	14	16	18	18
	2700	4	6	8	10	12	12	14	16	18	20	22
	3000	4	6	8	10	12	14	16	18	20	22	24

N2C / 1300 PA ULS



ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	6
	900	4	4	4	4	4	4	6	6	6	6	8
	1200	4	4	4	4	6	6	6	8	8	8	10
	1500	4	4	4	6	6	6	8	8	10	10	12
	1800	4	4	6	6	8	8	10	10	12	12	14
	2100	4	4	6	6	8	10	10	12	12	14	16
	2400	4	6	6	8	10	10	12	14	14	16	18
	2700	4	6	8	8	10	12	14	14	16	18	20
	3000	4	6	8	10	12	12	14	16	18	20	22

ULS WIND PRESSURE: 1300 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	4	4	4	4
	900	4	4	4	4	4	4	4	6	6	6	6
	1200	4	4	4	4	4	6	6	6	8	8	8
	1500	4	4	4	4	6	6	8	8	8	10	10
	1800	4	4	4	6	6	8	8	10	10	12	12
	2100	4	4	6	6	8	8	10	10	12	12	14
	2400	4	4	6	8	8	10	10	12	14	14	16
	2700	4	6	6	8	10	10	12	14	14	16	18
	3000	4	6	8	8	10	12	14	14	16	18	20

N3C / 2000 PA ULS



ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	8	8	8	10	10
	900	4	4	6	6	8	10	10	12	12	14	16
	1200	4	6	8	8	10	12	14	16	16	18	20
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	16	18	20	22	24	28	30
	2100	6	10	12	14	18	20	24	26	28	32	34
	2400	8	10	14	16	20	24	26	30	32	36	38
	2700	8	12	16	18	22	26	30	34	36	40	44
	3000	8	12	16	20	24	28	32	36	40	44	48

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	16	16
	1500	4	6	8	10	10	12	14	16	18	20	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	18	20	22	24	26	28
	2400	6	8	12	14	16	20	22	24	28	30	32
	2700	6	10	12	16	18	22	24	28	30	34	36
	3000	8	10	14	18	20	24	28	30	34	38	40

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	6	8	8
	900	4	4	4	6	6	8	8	8	10	10	12
	1200	4	4	6	6	8	10	10	12	12	14	14
	1500	4	6	6	8	10	12	12	14	16	16	18
	1800	4	6	8	10	12	14	14	16	18	20	22
	2100	6	8	10	12	14	16	18	20	22	24	26
	2400	6	8	10	12	14	18	20	22	24	26	28
	2700	6	8	12	14	16	20	22	24	26	30	32
	3000	6	10	12	16	18	22	24	26	30	32	36

N3C / 2000 PA ULS



ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	6	6	6	6	8
	900	4	4	4	4	6	6	8	8	8	10	10
	1200	4	4	6	6	8	8	10	10	12	12	14
	1500	4	4	6	8	8	10	12	12	14	16	16
	1800	4	6	8	8	10	12	14	14	16	18	20
	2100	4	6	8	10	12	14	16	18	20	20	22
	2400	6	8	10	12	14	16	18	20	22	24	26
	2700	6	8	10	12	14	18	20	22	24	26	28
	3000	6	8	12	14	16	20	22	24	26	30	32

ULS WIND PRESSURE: 2000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	4	4	6	6	6	6
	900	4	4	4	4	6	6	6	8	8	8	10
	1200	4	4	4	6	6	8	8	10	10	12	12
	1500	4	4	6	6	8	10	10	12	12	14	16
	1800	4	6	6	8	10	10	12	14	16	16	18
	2100	4	6	8	10	10	12	14	16	18	20	20
	2400	4	6	8	10	12	14	16	18	20	22	24
	2700	6	8	10	12	14	16	18	20	22	24	26
	3000	6	8	10	12	16	18	20	22	24	28	30

N4C / 3000 PA ULS



ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	16
	900	4	6	8	10	12	14	16	18	18	20	22
	1200	6	8	10	12	16	18	20	22	24	28	30
	1500	6	10	12	16	18	22	24	28	30	34	36
	1800	8	12	16	18	22	26	30	34	36	40	44
	2100	10	14	18	22	26	30	34	38	42	46	50
	2400	10	16	20	24	30	34	38	44	48	54	58
	2700	12	18	22	28	34	38	44	50	54	60	66
	3000	12	18	24	30	36	42	48	54	60	66	72

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	12	12	14	16	18	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	14	16	18	20	24	26	28	30
	1800	6	10	12	16	18	22	24	28	30	34	36
	2100	8	12	14	18	22	26	28	32	36	38	42
	2400	8	12	16	20	24	28	32	36	40	44	48
	2700	10	14	18	24	28	32	36	40	46	50	54
	3000	10	16	20	26	30	36	40	46	50	56	60

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	16	16
	1200	4	6	8	10	12	14	14	16	18	20	22
	1500	6	8	10	12	14	16	18	20	22	24	26
	1800	6	8	12	14	16	20	22	24	26	30	32
	2100	8	10	14	16	20	22	26	28	32	34	38
	2400	8	12	14	18	22	26	28	32	36	38	42
	2700	8	12	16	20	24	28	32	36	40	44	48
	3000	10	14	18	22	26	32	36	40	44	48	52

N4C / 3000 PA ULS



ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	8	8	8	10	10
	900	4	4	6	6	8	10	10	12	12	14	14
	1200	4	6	8	8	10	12	14	14	16	18	20
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	14	18	20	22	24	26	28
	2100	6	10	12	14	18	20	22	26	28	30	34
	2400	8	10	14	16	20	22	26	28	32	36	38
	2700	8	12	14	18	22	26	28	32	36	40	42
	3000	8	12	16	20	24	28	32	36	40	44	48

ULS WIND PRESSURE: 3000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	16	16	18
	1500	4	6	8	10	12	14	16	18	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	14	16	18	20	24	26	28	30
	2400	6	10	12	16	18	20	24	26	30	32	36
	2700	8	10	14	18	20	24	26	30	34	36	40
	3000	8	12	16	18	22	26	30	34	36	40	44

N5C / 4500 PA ULS



ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	18	20	22
	900	6	10	12	14	18	20	22	26	28	30	34
	1200	8	12	16	18	22	26	30	34	36	40	44
	1500	10	14	18	24	28	32	36	42	46	50	54
	1800	12	18	22	28	34	38	44	50	54	60	66
	2100	14	20	26	32	38	44	50	58	64	70	76
	2400	16	22	30	36	44	50	58	66	72	80	86
	2700	18	26	34	42	50	58	66	74	82	90	98
	3000	18	28	36	46	54	64	72	82	90	98	108

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	12	12	14	16	18	18
	900	6	8	10	12	14	16	18	20	24	26	28
	1200	6	10	12	16	18	22	24	28	30	34	36
	1500	8	12	16	20	24	26	30	34	38	42	46
	1800	10	14	18	24	28	32	36	40	46	50	54
	2100	12	16	22	26	32	38	42	48	52	58	64
	2400	12	18	24	30	36	42	48	54	60	66	72
	2700	14	20	28	34	40	48	54	60	68	74	80
	3000	16	24	30	38	46	52	60	68	76	82	90

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	12	12	14	16	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	12	14	16	20	22	24	26	30	32
	1500	8	10	14	18	20	24	26	30	34	36	40
	1800	8	12	16	20	24	28	32	36	40	44	48
	2100	10	14	20	24	28	32	38	42	46	50	56
	2400	12	16	22	26	32	38	42	48	52	58	62
	2700	12	18	24	30	36	42	48	54	58	64	70
	3000	14	20	26	34	40	46	52	58	66	72	78

N5C / 4500 PA ULS



ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	14
	900	4	6	8	10	12	14	14	16	18	20	22
	1200	6	8	10	12	14	18	20	22	24	26	28
	1500	6	10	12	16	18	22	24	28	30	32	36
	1800	8	12	14	18	22	26	28	32	36	40	42
	2100	10	14	18	22	26	30	34	38	42	46	50
	2400	10	14	20	24	28	34	38	42	48	52	56
	2700	12	16	22	28	32	38	42	48	54	58	64
	3000	12	18	24	30	36	42	48	54	58	64	70

ULS WIND PRESSURE: 4500 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	10	10	12	14	16	18	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	10	12	14	18	20	22	26	28	30	34
	1800	8	10	14	18	20	24	26	30	34	36	40
	2100	8	12	16	20	24	28	30	34	38	42	46
	2400	10	14	18	22	26	30	36	40	44	48	52
	2700	10	16	20	26	30	34	40	44	50	54	58
	3000	12	18	22	28	34	38	44	50	54	60	66

N6C / 6000 PA ULS



ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	16	18	20	22	24	28	30
	900	8	12	16	18	22	26	30	34	36	40	44
	1200	10	16	20	24	30	34	38	44	48	54	58
	1500	12	18	24	30	36	42	48	54	60	66	72
	1800	16	22	30	36	44	50	58	66	72	80	86
	2100	18	26	34	42	50	60	68	76	84	92	100
	2400	20	30	38	48	58	68	76	86	96	106	114
	2700	22	34	44	54	66	76	86	98	108	118	130
	3000	24	36	48	60	72	84	96	108	120	132	144

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	28	30	34	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	36	40	46	50	56	60
	1800	12	18	24	30	36	42	48	54	60	66	72
	2100	14	22	28	36	42	50	56	64	70	76	84
	2400	16	24	32	40	48	56	64	72	80	88	96
	2700	18	28	36	46	54	64	72	80	90	98	108
	3000	20	30	40	50	60	70	80	90	100	110	120

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	14	16	18	20	22
	900	6	8	12	14	16	20	22	24	26	30	32
	1200	8	12	14	18	22	26	28	32	36	38	42
	1500	10	14	18	22	26	32	36	40	44	48	52
	1800	12	16	22	26	32	38	42	48	52	58	62
	2100	14	20	26	32	38	44	50	56	62	68	74
	2400	14	22	28	36	42	50	56	62	70	76	84
	2700	16	24	32	40	48	56	62	70	78	86	94
	3000	18	26	36	44	52	62	70	78	86	96	104

N6C / 6000 PA ULS



ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	14	16	18	20
	900	6	8	10	12	14	18	20	22	24	26	28
	1200	8	10	14	16	20	22	26	28	32	36	38
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	14	20	24	28	34	38	42	48	52	56
	2100	12	18	22	28	34	38	44	50	56	60	66
	2400	14	20	26	32	38	44	50	56	62	70	76
	2700	14	22	28	36	42	50	56	64	70	78	84
	3000	16	24	32	40	48	56	62	70	78	86	94

ULS WIND PRESSURE: 6000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	10	12	14	16	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	16	18	20	24	26	30	32	36
	1500	8	12	16	18	22	26	30	34	36	40	44
	1800	10	14	18	22	26	30	36	40	44	48	52
	2100	10	16	20	26	30	36	40	46	50	56	60
	2400	12	18	24	30	36	40	46	52	58	64	70
	2700	14	20	26	34	40	46	52	58	66	72	78
	3000	16	22	30	36	44	50	58	66	72	80	86

C1C / 2700 PA ULS



ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	10	10	12	14	16	18	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	10	12	14	18	20	22	26	28	30	34
	1800	8	10	14	18	20	24	26	30	34	36	40
	2100	8	12	16	20	24	28	30	34	38	42	46
	2400	10	14	18	22	26	30	36	40	44	48	52
	2700	10	16	20	26	30	34	40	44	50	54	58
	3000	12	18	22	28	34	38	44	50	54	60	66

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	8	10	10	12
	900	4	4	6	8	8	10	12	12	14	16	16
	1200	4	6	8	10	12	14	16	16	18	20	22
	1500	6	8	10	12	14	16	18	20	24	26	28
	1800	6	8	12	14	16	20	22	24	28	30	32
	2100	8	10	14	16	20	22	26	28	32	36	38
	2400	8	12	16	18	22	26	30	32	36	40	44
	2700	8	12	16	20	24	28	32	36	40	44	48
	3000	10	14	18	24	28	32	36	40	46	50	54

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	8	8	8	10	10
	900	4	4	6	6	8	10	10	12	12	14	14
	1200	4	6	8	8	10	12	14	14	16	18	20
	1500	4	6	8	10	12	14	16	18	20	22	24
	1800	6	8	10	12	14	18	20	22	24	26	28
	2100	6	10	12	14	18	20	22	26	28	30	34
	2400	8	10	14	16	20	22	26	28	32	34	38
	2700	8	12	14	18	22	26	28	32	36	40	42
	3000	8	12	16	20	24	28	32	36	40	44	48

C1C / 2700 PA ULS



ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	6	6	6	8	8	8	10
	900	4	4	6	6	8	8	10	10	12	12	14
	1200	4	6	6	8	10	10	12	14	14	16	18
	1500	4	6	8	10	12	14	14	16	18	20	22
	1800	6	8	10	12	14	16	18	20	22	24	26
	2100	6	8	10	14	16	18	20	22	26	28	30
	2400	6	10	12	14	18	20	24	26	28	32	34
	2700	8	10	14	16	20	22	26	30	32	36	38
	3000	8	12	14	18	22	26	28	32	36	40	42

ULS WIND PRESSURE: 2700 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	4	4	6	6	6	8	8	8
	900	4	4	4	6	6	8	8	10	10	12	12
	1200	4	4	6	8	8	10	12	12	14	16	16
	1500	4	6	8	10	10	12	14	16	18	18	20
	1800	4	6	8	10	12	14	16	18	20	22	24
	2100	6	8	10	12	14	16	18	22	24	26	28
	2400	6	8	12	14	16	18	22	24	26	30	32
	2700	6	10	12	16	18	22	24	26	30	32	36
	3000	8	10	14	18	20	24	26	30	34	36	40

C2C / 4000 PA ULS



ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	16	16	18	20
	900	6	8	10	12	16	18	20	22	24	28	30
	1200	8	10	14	16	20	24	26	30	32	36	38
	1500	8	12	16	20	24	28	32	36	40	44	48
	1800	10	16	20	24	30	34	38	44	48	54	58
	2100	12	18	24	28	34	40	46	50	56	62	68
	2400	14	20	26	32	38	46	52	58	64	70	76
	2700	16	22	30	36	44	50	58	66	72	80	86
	3000	16	24	32	40	48	56	64	72	80	88	96

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	8	8	10	12	12	14	16	16
	900	4	6	8	10	12	14	16	18	20	22	24
	1200	6	8	12	14	16	20	22	24	28	30	32
	1500	8	10	14	18	20	24	28	30	34	38	40
	1800	8	12	16	20	24	28	32	36	40	44	48
	2100	10	14	20	24	28	34	38	42	48	52	56
	2400	12	16	22	28	32	38	44	48	54	58	64
	2700	12	18	24	30	36	42	48	54	60	66	72
	3000	14	20	28	34	40	48	54	60	66	74	80

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	10	10	12	12	14	14
	900	4	6	8	10	12	14	14	16	18	20	22
	1200	6	8	10	12	14	18	20	22	24	26	28
	1500	6	10	12	16	18	22	24	26	30	32	36
	1800	8	12	14	18	22	26	28	32	36	38	42
	2100	10	14	18	22	26	30	34	38	42	46	50
	2400	10	14	20	24	28	34	38	42	46	52	56
	2700	12	16	22	26	32	38	42	48	52	58	62
	3000	12	18	24	30	36	42	46	52	58	64	70

C2C / 4000 PA ULS



ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	6	6	8	8	10	10	12	12	14
	900	4	6	8	8	10	12	14	14	16	18	20
	1200	6	8	10	12	14	16	18	20	22	24	26
	1500	6	8	12	14	16	20	22	24	26	30	32
	1800	8	10	14	16	20	22	26	28	32	36	38
	2100	8	12	16	20	22	26	30	34	38	40	44
	2400	10	14	18	22	26	30	34	38	42	46	50
	2700	10	14	20	24	28	34	38	42	48	52	56
	3000	12	16	22	26	32	38	42	48	52	58	62

ULS WIND PRESSURE: 4000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	4	4	6	6	8	8	10	10	12	12
	900	4	6	6	8	10	10	12	14	16	16	18
	1200	4	6	8	10	12	14	16	18	20	22	24
	1500	6	8	10	12	16	18	20	22	24	28	30
	1800	6	10	12	16	18	20	24	26	30	32	36
	2100	8	10	14	18	20	24	28	30	34	38	40
	2400	8	12	16	20	24	28	32	36	40	42	46
	2700	10	14	18	22	26	30	36	40	44	48	52
	3000	10	16	20	24	30	34	40	44	48	54	58

C3C / 5900 PA ULS



ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	18	20	22	24	26	28
	900	8	12	14	18	22	26	28	32	36	40	42
	1200	10	14	20	24	28	34	38	42	48	52	56
	1500	12	18	24	30	36	42	48	54	60	66	70
	1800	14	22	28	36	42	50	56	64	70	78	84
	2100	18	26	34	42	50	58	66	74	82	90	98
	2400	20	28	38	48	56	66	76	84	94	104	112
	2700	22	32	42	54	64	74	84	96	106	116	126
	3000	24	36	48	60	70	82	94	106	118	130	140

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	22	24	28	30	34	36
	1200	8	12	16	20	24	28	32	36	40	44	48
	1500	10	16	20	26	30	34	40	44	50	54	60
	1800	12	18	24	30	36	42	48	54	60	66	70
	2100	14	22	28	34	42	48	56	62	68	76	82
	2400	16	24	32	40	48	56	64	70	78	86	94
	2700	18	28	36	44	54	62	70	80	88	98	106
	3000	20	30	40	50	60	68	78	88	98	108	118

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	12	14	16	18	20	22
	900	6	8	12	14	16	18	22	24	26	28	32
	1200	8	12	14	18	22	24	28	32	34	38	42
	1500	10	14	18	22	26	30	34	38	44	48	52
	1800	12	16	22	26	32	36	42	46	52	56	62
	2100	12	18	24	30	36	42	48	54	60	66	72
	2400	14	22	28	34	42	48	56	62	68	76	82
	2700	16	24	32	38	46	54	62	70	76	84	92
	3000	18	26	34	44	52	60	68	76	86	94	102

C3C / 5900 PA ULS



ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 10 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	8	10	12	14	14	16	18	20
	900	6	8	10	12	14	16	20	22	24	26	28
	1200	8	10	14	16	20	22	26	28	32	34	38
	1500	8	12	16	20	24	28	32	36	38	42	46
	1800	10	14	20	24	28	32	38	42	46	52	56
	2100	12	16	22	28	32	38	44	48	54	60	64
	2400	14	20	26	32	38	44	50	56	62	68	74
	2700	14	22	28	36	42	48	56	62	70	76	84
	3000	16	24	32	38	46	54	62	70	76	84	92

ULS WIND PRESSURE: 5900 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	6	8	10	10	12	14	16	16	18
	900	6	8	10	12	14	16	18	20	22	24	26
	1200	6	10	12	16	18	20	24	26	30	32	34
	1500	8	12	16	18	22	26	30	32	36	40	44
	1800	10	14	18	22	26	30	34	38	44	48	52
	2100	10	16	20	26	30	36	40	46	50	54	60
	2400	12	18	24	30	34	40	46	52	58	62	68
	2700	14	20	26	32	38	46	52	58	64	70	76
	3000	16	22	30	36	44	50	58	64	72	78	86

C4C / 8000 PA ULS



ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 4 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	8	10	14	16	20	24	26	30	32	36	38
	900	10	16	20	24	30	34	38	44	48	54	58
	1200	14	20	26	32	38	46	52	58	64	70	76
	1500	16	24	32	40	48	56	64	72	80	88	96
	1800	20	30	38	48	58	68	76	86	96	106	114
	2100	24	34	46	56	68	78	90	100	112	122	134
	2400	26	38	52	64	76	90	102	114	128	140	152
	2700	30	44	58	72	86	100	114	130	144	158	172
	3000	32	48	64	80	96	112	128	144	160	174	190

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 6 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	12	14	16	20	22	24	28	30	32
	900	8	12	16	20	24	28	32	36	40	44	48
	1200	12	16	22	28	32	38	44	48	54	58	64
	1500	14	20	28	34	40	48	54	60	66	74	80
	1800	16	24	32	40	48	56	64	72	80	88	96
	2100	20	28	38	48	56	66	74	84	94	102	112
	2400	22	32	44	54	64	74	86	96	106	116	128
	2700	24	36	48	60	72	84	96	108	120	132	144
	3000	28	40	54	66	80	94	106	120	132	146	158

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 8 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	18	20	22	24	26	28
	900	8	12	14	18	22	26	28	32	36	38	42
	1200	10	14	20	24	28	34	38	42	46	52	56
	1500	12	18	24	30	36	42	46	52	58	64	70
	1800	14	22	28	36	42	50	56	62	70	76	84
	2100	18	26	34	42	50	58	66	74	82	90	98
	2400	20	28	38	46	56	66	74	84	92	102	110
	2700	22	32	42	52	62	74	84	94	104	114	124
	3000	24	36	46	58	70	82	92	104	116	126	138

C4C / 8000 PA ULS



ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 10 GAUGE**

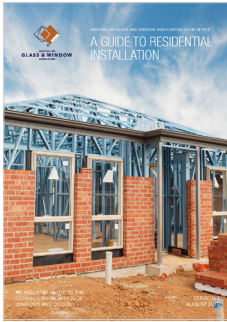
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		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	6	8	10	12	14	16	18	20	22	24	26
	900	8	10	14	16	20	22	26	28	32	36	38
	1200	10	14	18	22	26	30	34	38	42	46	50
	1500	12	16	22	26	32	38	42	48	52	58	62
	1800	14	20	26	32	38	44	50	56	62	70	76
	2100	16	22	30	38	44	52	58	66	74	80	88
	2400	18	26	34	42	50	58	66	76	84	92	100
	2700	20	28	38	48	56	66	76	84	94	104	112
	3000	22	32	42	52	62	74	84	94	104	114	124

ULS WIND PRESSURE: 8000 PA, **SCREW SIZE: 12 GAUGE**

		WINDOW WIDTH										
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
WINDOW HEIGHT	600	4	6	8	10	12	14	16	18	20	22	24
	900	6	10	12	16	18	20	24	26	30	32	36
	1200	8	12	16	20	24	28	32	36	40	42	46
	1500	10	16	20	24	30	34	40	44	48	54	58
	1800	12	18	24	30	36	40	46	52	58	64	70
	2100	14	20	28	34	40	48	54	60	68	74	80
	2400	16	24	32	40	46	54	62	70	78	84	92
	2700	18	26	36	44	52	60	70	78	86	96	104
	3000	20	30	40	48	58	68	78	86	96	106	116

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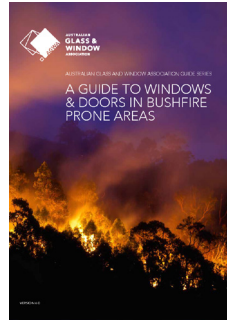
Installation



Energy Efficiency



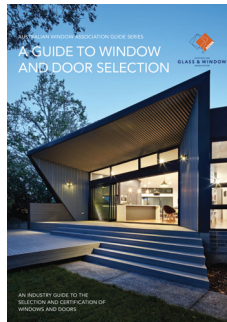
Bushfire Areas



Glass and Glazing



Window and Door Selection



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