



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Olympic Manufacturing Group, Inc.
153 Bowles Avenue P. O. Box 508
Agawam, MA 01001-0508

Your application for Notice of Acceptance (NOA) of:

Olympic Roofing Fasteners and Fastener Assemblies

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-0519.10
EXPIRES: 08/21/2003

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/17/2000

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Fasteners

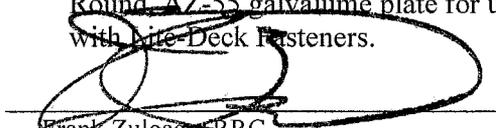
Approval Date: **August 17, 2000**

Expiration Date: **August 21, 2003**

Materials: Steel
Maximum Design Pressure N/A
Fire Classification: N/A

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Olympic Standard	#12 x 8" max. length. #3 phillip head	PA 114	Truss head, self-drilling, pinch point, high thread fastener for steel use in wood or steel decks.
Olympic Heavy Duty	#14 x 16" max. length; #3 phillips head	PA 114	Truss head, self-drilling, pinch point, high thread fastener for steel use in wood, steel or concrete decks.
CD-10	0.214" min. dia. x 12" max. length; wafer head	PA 114	Carbon steel expansion fastener for insulation attachment in structural concrete decks.
Fluted Nail	0.212" to 0.225" dia. x 12" max. length; octogon head	PA 114	Galvanized spiral shanked nail, for insulation attachment in structural concrete decks.
Lite-Deck Fastener	0.240" to 0.375" x 12" max. length; #3 phillip flat head	PA 114	Carbon steel fastener for insulation attachment in gypsum and cementitious wood fiber decks.
NTB-1H	0.75" thread dia. x 1" dia. head x 8" max. length with double 0.375" hex recess	PA 114	One piece, glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks. Available with two internal galvanized wires and plastic anti-back out plunger.
NTB-2H	0.75" thread dia. x 2" dia. head x 8" max. length with double 0.375" hex recess	PA 114	One piece, glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks. Available with two internal galvanized wires and plastic anti-back out plunger.
Olympic Strap Toggle	¼" dia. x 24" max. length bolt; 2" wide toggle	PA 114	Metal spring loaded toggle bolt with a plastic locking strap for use in wood, steel or gypsum decks.
Olympic Purlin Fastener	#12 x max. 8¾"	PA 114	Polymer coated carbon steel screw for steel purlin attachment.
Olympic Standard	3" round	PA 114	Round galvanized steel stress plate for use with Olympic fasteners.
Olympic Plastic	3" round	PA 114	Round high density polypropylene stress plate for use with Olympic fasteners.
Olympic 2" Barbed	2" round	PA 114	Round galvanized steel stress plates for use with Olympic fasteners.
Lite-Deck Plate	3" round	PA 114	Round, AZ-55 galvalume plate for use with Lite-Deck Fasteners.


 Frank Zuloaga, RRC
 Roofing Plans Examiner

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Letter	J.I. 0T0A5.AM	09/28/90
Factory Mutual Research Corporation	Pull Out/Sheer Data	J.I. 0M3A6.AM	07/31/85
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 1T2A6.AM	02/22/93
Factory Mutual Research Corporation	Wind Uplift		
Factory Mutual Research Corporation	Corrosion & Comparative Pull-Out (FMRC 4450)	J.I. 1Y5A4.AM	07/19/94
Pittsburgh Testing Laboratory	Tensile/Sheer Data	No. MA 4907 Lab # 2386	01/13/83
Pittsburgh Testing Laboratory	Pull Out	No. MA 4907 Lab # 9098	04/24/85
Exterior Research & Design, LLC.	PA 117(A), (B) & (C)	Test Report #4251.08.96-1	08/01/96

TYPICAL PROPERTIES:

Note: A 2 to 1 margin of safety has been applied to test results producing the design values noted herein.

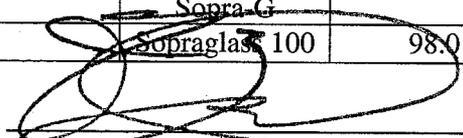
Withdrawal Resistance Performance - PA 117(A) - Static Load			
Fastener	Deck Type	min. Penetration / Embedment	Static Withdrawal Resistance (lbf)
Olympic Standard	min. 15/32" plywood	1/2"	138.5
	min. 22 ga. grade A steel	1/2"	173.0
Olympic Heavy Duty	min. 15/32" plywood	1/2"	137.5
	min. 22 ga. grade A steel	1/2"	151.5
	min. 3,000 psi concrete	1"	798.0
Olympic CD-10	min. 3,000 concrete	1"	533.0
Olympic Fluted Nail	min. 3,000 concrete	1"	537.0
NTB-1H with locking wire barbs	cementitious wood fiber	1.5"	140.5
	poured gypsum	1.5"	259.0
Lite Deck Fastener	cementitious wood fiber	2"	122.0
	poured gypsum	2"	341.5
Olympic Purlin Fastener	min. 18 ga.	1/2"	231.0
	3/16" steel purlin	1/2"	1536.0



Frank Zuloaga, RRC
Roofing Plans Examiner

Withdrawal Resistance Performance - PA 117(A) - Pulsating Load			
Fastener	Deck Type	min. Penetration / Embedment	Pulsating Withdrawal Resistance (lbf)
Olympic Standard	min. 15/32" plywood	1/2"	135.0
	min. 22 ga. grade A steel	1/2"	146.5
Olympic Heavy Duty	min. 15/32" plywood	1/2"	133.0
	min. 22 ga. grade A steel	1/2"	136.5
	min. 3,000 psi concrete	1"	578.0
Olympic CD-10	min. 3,000 concrete	1"	410.0
Olympic Fluted Nail	min. 3,000 concrete	1"	466.5
CR Base Sheet Fastener	min. 200 psi cellular lightweight concrete	n/a	28 day cure: 48.0
CR 1.2 Base Sheet Fastener	min. 200 psi cellular lightweight concrete	n/a	28 day cure: 38.5
	poured gypsum	n/a	65.0
NTB-1H with locking wire barbs	cementitious wood fiber	1.5"	106.0
	poured gypsum	1.5"	257.0
Lite Deck Fastener	cementitious wood fiber	2"	115.5
	poured gypsum	2"	300.0

Base Sheet Rupture Performance - PA 117(B) 3" Lite-Deck Plate, 3" Standard and 3" NTB Plate					
Manufacturer	Base Sheet	Rupture Value (lbf)	Manufacturer	Base Sheet	Rupture Value (lbf)
Honeywell	Glass Fiber Base Sheet	63.0	John Manville	PermaPly 28	71.0
	Premium Glass Fiber Felt	89.0		PermaPly-R	131.5
	Vented Base Sheet	66.0		Dynabase	84.0
Celotex	Channel Vent GB	59.0		Glasbase	65.0
	Vaporbar GB	65.0		Ventsulation	65.5
GAF	GAFGLAS #75	70.5		GlasPly Premier	97.5
	Stratavent	67.0	SOPREMA	Sopra-G	64.0
	GAFGLAS Ply 4	62.0		Modified Sopra-G	60.0
	Ruberoid Base	90.0		Sopraglas 100	98.0


 Frank Zuloaga, RRC
 Roofing Plans Examiner

GS Roofing	Flex-I-Glas Base	62.5		Sopravent	61.5
	PolySMS	125.0	Tamko	Glass-Base	86.5
Siplast	Parabase	93.5		Vapor-Chan	73.5
	Parabase Plus	77.5	Tremco	BURMastic Glass Ply	53.5
Malarkey	#501	53.5		BURMastic Composite Ply	112.0
	#601	72.0	US Intec	Ultrabase	55.0

Single Ply Lap Rupture Performance - PA 117(B) - 2" Galvalume Plate with Barbs					
Manufacturer	Membrane	Rupture Value (lbf)	Manufacturer	Membrane	Rupture Value (lbf)
Seaman	FiberTite	189.5	Sarnafil	S327	204.5
JPS	Hi-Tuff	186.5	GenFlex	GenFlex RM	205.0
BondCote	350 Series	106.5	Durolast	Durolast 35 mil	149.5

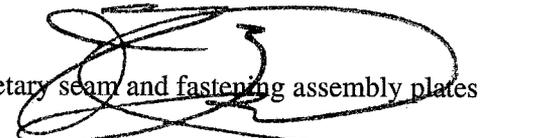
APPROVED APPLICATIONS:

Tradename: **Olympic Standard**
 Compatible Plate(s): 3" metal or plastic plate, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
 Insulation Types: Extruded Polystyrene, Glass Fiber, Cellular Glass, Wood Fiber, Perlite, Polyisocyanurate, Composite, rockwool.
 Application: Mechanical attachment of roof insulation and membrane. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns

Tradename: **Olympic Standard**
 Compatible Plate(s): 3" metal or plastic plate, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
 Insulation Types: Extruded Polystyrene, Glass Fiber, Cellular Glass, Wood Fiber, Perlite, Polyisocyanurate, Composite, rockwool.
 Application: Mechanical attachment of roof insulation and membrane. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns

Tradename: **Olympic Heavy Duty**
 Compatible Plate(s): 3" metal or plastic plate, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
 Application: Mechanical attachment of roof insulation and membrane. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
 Deck: 18-22 ga. steel, wood, min. 19/32" plywood or wood plank, 2500 psi concrete or concrete plank

Tradename: **CD-10 or Fluted Nail**
 Compatible Plate(s): 3" metal or plastic plate, and proprietary seam and fastening assembly plates


 Frank Zuloaga, RRC
 Roofing Plans Examiner

Application: listed in the specific Roof Assembly Notice of Acceptance.
Mechanical attachment of roof insulation and membrane. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: 2500 psi concrete or concrete plank

Tradename: **Lite-Deck Fastener**

Compatible Plate(s): 3" Lite-Deck Plate.

Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Cementitious wood fiber or gypsum

Tradename: **NTB 1-H**

Compatible Plate(s): NTB Plate, Spin Weld Plate.

Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Cementitious wood fiber or gypsum

Tradename: **NTB 2-H**

Compatible Plate(s): NTB Plastic Plate.

Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Cementitious wood fiber or gypsum

Tradename: **Olympic Strap Toggle**

Compatible Plate(s): 3" metal or plastic plate.

Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: 18-22 ga. steel, wood, min. ¹⁹/₃₂" plywood or wood plank, gypsum

Tradename: **Olympic Purlin Fastener**

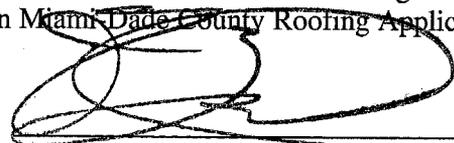
Compatible Plate(s): 2" Barbed Plates, ASAP, Olympic Plastic, Olympic Standard, Olympic G-2, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.

Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: 18-22 ga. steel, wood, min. ¹⁹/₃₂" plywood or wood plank, gypsum

GENERAL LIMITATIONS:

1. Refer to Roof Assemblies Notices of Acceptance for use, density and attachment patterns.
2. Only those specific fasteners listed in this approval shall be utilized in Approved Roof System Assemblies
3. Fasteners shall be installed in strict compliance with manufacturer's installation instructions, and in compliance with the requirements set forth in Miami-Dade County Roofing Application Standard PA 111, & 117.
4. Care shall be taken not to puncture or tear the base sheet or insulation facer during fastener installation. Application recommendations are noted in Miami-Dade County Roofing Application Standard PA 117.



Frank Zuloaga, RRC
Roofing Plans Examiner

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade County Testing Application Standards TAS 105 and calculations in compliance with Miami-Dade Roofing Application Standard RAS 117.

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Metro-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Metro-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1 through 7.

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Plans Examiner