

CITY OF SACRAMENTO

Permit No: 0004166

1231 I Street, Sacramento, CA 95814

Insp Area: 4

Site Address: 2300 INNOVATOR DR SAC

Thos Bros:

Parcel No: 225-0125-003

VILLAGIO CR BLDG #1005 UNITS 1-20

Sub-Type: NAPT

Housing (Y/N):

N

CONTRACTOR

OWNER

ARCHITECT

**NATOMAS VILLAGIO CCL
164 OAK RD
ALAMO, CA 94507**

Nature of Work: NEW APPARTMENT BLDG#1005 TYPE 4 OVER 12 GARAGES

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class _____ License Number _____ Date _____ Contractor Signature _____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____

Date 10.15.01 Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 10.15.01 Applicant/Agent Signature _____

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____ Policy Number _____ Exp Date _____

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 10.15.01 Applicant Signature _____


WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

CITY OF SACRAMENTO

CERTIFICATE OF OCCUPANCY

For Information Contact (916) 264-5716

Building Address: 4101 INNOVATOR DR BLD 5 Permit No.: 0004166
Building Use: APARTMENTS Occupancy: R1
Building Owner: NATOMAS VILLAGIO LLC Construction Type: V-1H
Owner Address: ALAMO, CA Sprinkled? Yes No
Portion of Building Occupied: ENTIRE Area: 24291 Sq. Ft.
2/9/04
Date By:  Sign **DENNIS RICHARDSON**
(Print) CHIEF BUILDING OFFICIAL

[Finaled ByDSP,JBB,RSB,CP, GRS]

This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the Chief Building Official. No changes shall be made in the character of occupancy or use without approval of the Chief Building Official.

POST IN A CONSPICUOUS PLACE

Villagio

Apartment Homes

March 12, 2004

City of Sacramento
Planning and Building Department
2101 Arena Boulevard, Room 200
Sacramento, CA 95834

Re: Villagio Apartment Homes
4101 Innovator Drive
Sacramento, CA

To Whom It May Concern:

The heating system for the above referenced project will be maintained per code. In accordance with Section 605.5 of the 2001 California Plumbing Code:

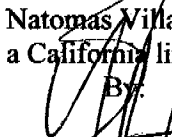
A control valve shall be installed immediately ahead of each water-supplied appliance and immediately ahead of each slip joint or non-metallic and fixture supply or appliance supply.

And, in accordance with section 310.11 of the UBC:

Dwelling units, great rooms & congregate residences shall be provided with heating facilities capable of maintaining a room temperature of 70 degrees at a point three feet above the floor in all habitable rooms.

In the event of a heat system failure and repairs will be longer than 24 hours, we will relocate the resident to a different apartment unit.

Sincerely,

Natomas Villagio LLC
a California limited liability company
By:  Villagio Apartments LLC
a California limited liability company

William F. Schrader, Jr.
Managing Member

4101 Innovator Drive
Sacramento, CA 95834

916.419.4433 (O)

916.419.4002 (F)



| | | | | | |
|-------------------|--------------|---------|----------|------------|---|
| Post-it® Fax Note | 7671 | Date | 11/22 | # of pages | 1 |
| To | GEORGE | From | JACOB J | | |
| Co./Dept | PARAMOUNT | Co. | COMPLERE | | |
| Phone # | | Phone # | | | |
| Fax # | 916-928-0531 | Fax # | | | |

* ORIGINAL TO FOLLOW BY MAIL

Nov. 22, 2002

George Tugaeff
Paramount Builders
916-928-0529
Fax #: 916-928-0531

RE: Villagio Apartments - 3x4 Stud Substitute

CC: Tim Raistrick
Procal

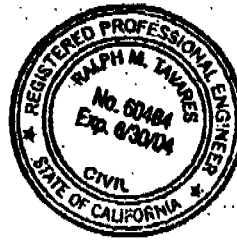
Mr. Tugaeff:

This purpose of this letter is to state the following:

Dbl. 2x4 studs, stitch-nailed together with (2) 10d @ 6", may be substituted for the 3x4 studs called-out in ground floor bearing walls.

Sincerely,

Jacob P. Jones
Project Engineer
Compleere Engineering Group



NOV 22 2002

@lpha Inspections
 & Material Testing

70 Rancho Del Sol • Camino, CA 95709
 (530) 644-6726 • (916) 825-7733

DATE: 2-7-03
 PROJECT NO. 2006
 PROJECT: P.B. / VILLANOVA APT
 LOCATION: BLOCK - #8

DSA FILE/APPL. NO. _____
 OSHPD NO. _____
 PERMIT NO. _____
 WEATHER: _____ TEMP: _____

PROOF LOAD **TORQUE** **WITNESSING**

Testing was performed on the following items. All tests were performed with the following calibrated equipment:

RAM: AJ-255 GAGE: AJ-1004 TORQUE WRENCH: _____
 RAM: _____ GAGE: _____ TORQUE WRENCH: _____

| LOCATION OF TEST | TYPE / SIZE | # TESTED | % of TOTAL | LOAD lb or Ft Lbs | GAGE (PSI) | # ACC. | # REJ. | # RETES |
|----------------------------------|-------------|----------|------------|-------------------|-------------|----------|----------|----------|
| <u>24DS EPOXIED ANCHOR BOLTS</u> | <u>5/8</u> | <u>2</u> | | <u>6855</u> | <u>2670</u> | <u>2</u> | <u>0</u> | <u>0</u> |
| <u>24DC EPOXIED ANCHOR BOLTS</u> | <u>5/8</u> | <u>1</u> | | <u>6855</u> | <u>2670</u> | <u>1</u> | <u>0</u> | <u>0</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Type of epoxy / grout used: _____ Method of application / cleaning: _____

Visual inspection was performed on _____

Show up / Stand by time. Job Canceled / Delayed due to: _____

All non-compliance items were brought to the attention of: _____ at the job site

NON-COMPLIANCE REPORT ATTACHED ADDITIONAL TESTS ATTACHED

NOTES: _____

To the best of my knowledge, the above ~~WAS~~ **WAS NOT** performed in accordance with the approved plans, specifications, and regulatory requirements

Superintendent/Representative: _____

Inspector: _____





| | | | |
|--------------------|--------------|--------------|--------------|
| FAX # 7671 | | Date 2/15/03 | # of pages 1 |
| To George | From Jacob | | |
| Co. Name Paramount | Co. Complere | | |
| Phone # | Phone # | | |
| Fax # 916-928-0531 | Fax # | | |

* ORIGINAL TO FOLLOW BY MAIL

February 5, 2003

George Tugaeff
 Paramount Builders
 916-928-0529
 Fax #: 916-928-0531

RE: Villagio Apartments- Stl Col. Studs

CC: Tim Raistrick
 Procal

Mr. Tugaeff:

The purpose of this letter is to state the following:

The inspector brought-up a question regarding the shear wall attachment to the steel columns at the garage units of bldg. type IV. A letter was sent to you dated 1/24/03 that prescribed a fix for the removed welded studs. Procal asked for another fix due to contractibility difficulties. Because of these problems, Complere Engineering Group was asked by Paramount to allow for the steel studs to be re-welded to the columns. This would mean all would be according to the original design.

The steel studs may be re-welded to the columns. The wood studs can then be attached to the columns as originally called-for by plan. A certified welder should perform the welding and no special inspection is necessary.

In addition, an alternate fix would be to attach the wood studs to the steel column with "Hilti" X-AL-H52 P8, or equivalent shot pins @ 3". These shot pins would take the place of the steel studs.

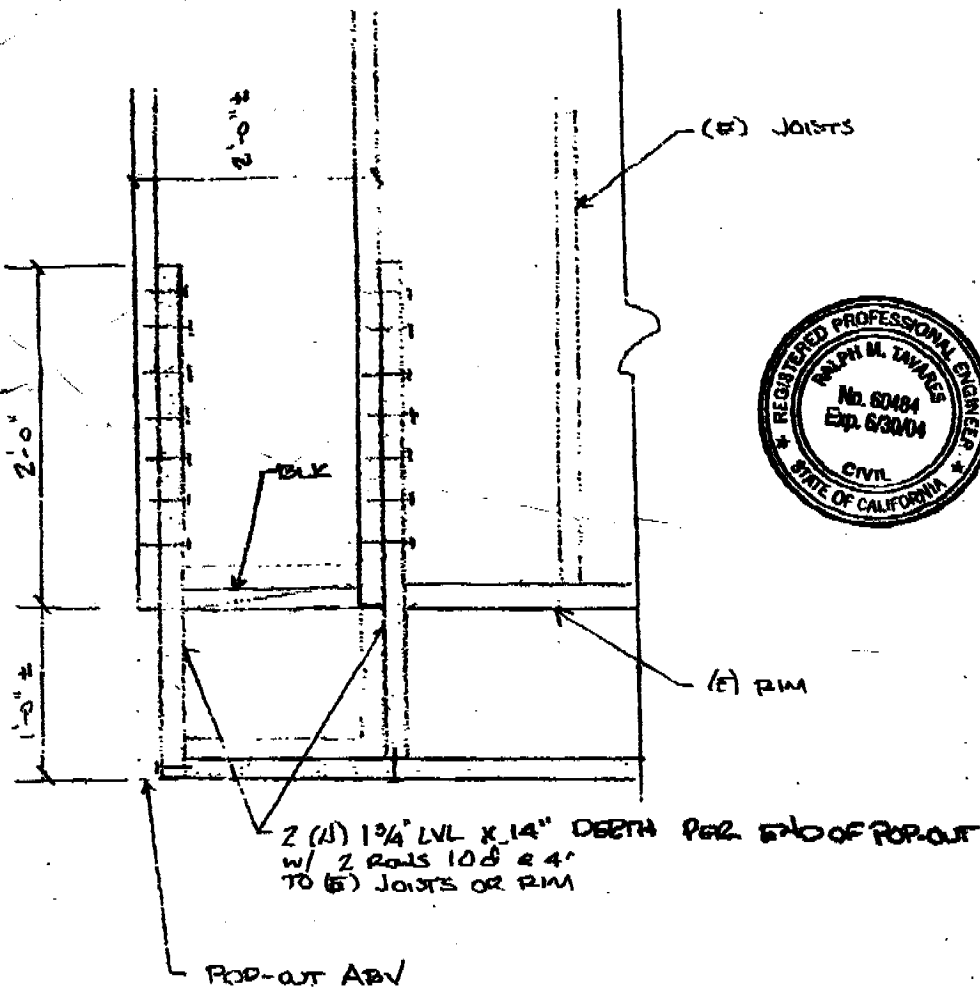
Sincerely,

Jacob P. Jones
 Project Structural Designer
 Complere Engineering Group



COMPLERE

COMPLERE ENGINEERING GROUP, INC.
4230 KIERNAN AVENUE, SUITE 210 MODESTO, CA 95356-9323
TEL 209-545-8165 FAX 209-545-8170



NOTE: THIS DETAIL TYP BOTH SIDES
OF POP-OUT
TYP WALL FRAMING ABV.

VILLAGIO APTS

POP-OUT FRAMING - UNIT C OVER GARAGE

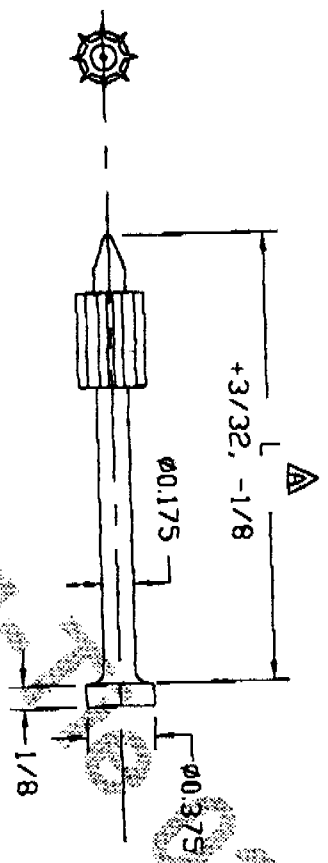
RFI #

Project No.
21107

Date
11/11/02

Sheet
2 of 2

Attn: Mike Bethencourt



| MODEL | L |
|----------|--------------|
| PHV3-75K | 3/4 KNUBBLED |
| PHV3-100 | 1 |
| PHV3-115 | 1 1/8 |
| PHV3-125 | 1 1/4 |
| PHV3-150 | 1 1/2 |
| PHV3-175 | 1 3/4 |
| PHV3-200 | 2 |
| PHV3-225 | 2 3/8 |
| PHV3-250 | 2 1/2 |
| PHV3-300 | 3 |
| PHV3-325 | 3 1/4 |

| MODEL | L |
|-----------|--------------|
| PHV3W-75K | 3/4 KNUBBLED |
| PHV3W-100 | 1 |
| PHV3W-115 | 1 1/8 |
| PHV3W-125 | 1 1/4 |
| PHV3W-150 | 1 1/2 |
| PHV3W-175 | 1 3/4 |
| PHV3W-200 | 2 |
| PHV3W-225 | 2 3/8 |
| PHV3W-250 | 2 1/2 |
| PHV3W-300 | 3 |
| PHV3W-325 | 3 1/4 |

| VISUAL | DIMENSIONAL | PROOF TEST |
|--|---|---|
| 1. Plating assembly 2. Proper assembly 3. Head & tip | 1. Overall Length 2. Body OD 3. Head OD | Rockwell Hardness Test Bend Test 45° |

For sampling size and pass/fail criteria see BR. 55 v1:
RECEIVING & INSPECTION OF PAT FASTENERS

UNLESS OTHERWISE NOTED

1. ALL FRACITION DIMENSIONS: ±1/64
2. SHANK DIAMETER ALL FASTENERS ±0.005
3. HEAD DIAMETER ON HEADED PINS ±0.012
4. HARDNESS: ROCKWELL C 51 - 56.5
5. FINISH: MECHANICAL ZINC PLATING THICKNESS 0.0002 NOMINAL
6. MATERIAL: COLD HEADING QUALITY AISI 1060 TO 1065 STEEL TO BE AUSTEMPERED

MODEL NO.: PHV3

CONFIDENTIAL
THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SIMPSON STRONG TIE COMPANY INC. AND MAY NOT BE REPRODUCED WITHOUT THEIR EXPRESS WRITTEN CONSENT!

DWG. NO: PHV3--AF

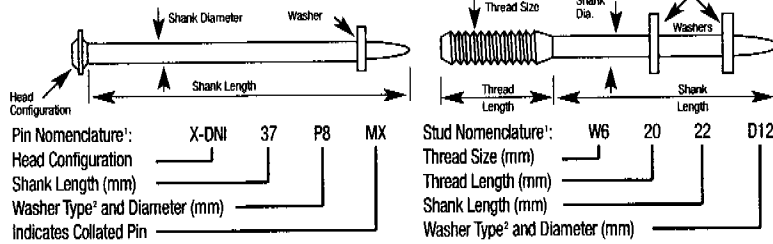
| | | | |
|------------------------------|-----------|----------------------------------|----|
| REV. A | DATE | ADD TOLERANCES: CORRECT BRANCH # | HE |
| 6/21/01 | | | |
| SIMPSON STRONG-TIE CO., INC. | | | |
| TITLE: PRODUCTION DRAWING | | | |
| DRAWN BY: HELGA ELDER | | | |
| SCALE: 1:1 | CHK: | DATE: 1/29/01 | |
| REV. A | MODEL NO: | PHV3 | |



General Application Fastener

3.2.1.1 Product Description

General application powder actuated fasteners include a wide variety of nails and threaded studs for fastening to steel and concrete.



1. When the fastener nomenclature is preceded by an "E" (e.g. X-EDNI 16 P8) it indicates a knurled shank for improved holding in steel. (Note: ESD 16P8 fastener does not utilize shank knurling.)
2. P = Plastic washer; S = Steel washer; D = Double washer (one plastic, one steel); L = Double washer (both steel); DP = Double washer (both plastic).
3. "MX" at the end of the product nomenclature, indicates collated fasteners in strips of 10.

X-DNI PINS
 Shank diameter 0.145" (3.7 mm) for concrete and steel. Packaged in boxes of 100.

| Description | Length | Description | Length |
|-------------|----------------|-------------|----------------|
| DNI 19 P8 | 3/4" (19 mm) | DNI 47 P8 | 1 7/8" (47 mm) |
| DNI 22 P8 | 7/8" (22 mm) | DNI 52 P8 | 2" (52 mm) |
| DNI 27 P8 | 1" (27 mm) | DNI 57 P8 | 2 1/4" (57 mm) |
| DNI 32 P8 | 1 1/4" (32 mm) | DNI 62 P8 | 2 1/2" (62 mm) |
| DNI 37 P8 | 1 1/2" (37 mm) | DNI 72 P8 | 2 7/8" (72 mm) |
| DNI 42 P8 | 1 5/8" (42 mm) | | |

1/4" - 20 STUDS W6-11, 20, 38
 Shank diameter 0.145" (3.7 mm) for concrete. Packaged in boxes of 100.

| Description | Thread | Shank |
|--------------|--------|--------|
| W6-11-17 D12 | 3/8" | 3/8" |
| W6-11-22 D12 | 3/8" | 7/8" |
| W6-11-27 D12 | 3/8" | 1" |
| W6-20-17 D12 | 3/4" | 5/8" |
| W6-20-22 D12 | 3/4" | 7/8" |
| W6-20-27 D12 | 3/4" | 1" |
| W6-20-42 D12 | 3/4" | 1 5/8" |
| W6-38-27 D12 | 1 1/2" | 1" |

X-EDNI PINS
 Shank diameter 0.145" (3.7 mm) for steel. Packaged in boxes of 100.

| Description | Length |
|-------------|--------------|
| EDNI 16 P8 | 5/8" (16 mm) |
| EDNI 19 P8 | 3/4" (19 mm) |
| EDNI 22 P8 | 7/8" (22 mm) |

1/4" - 20 STUDS EW6-11, 20, 28, 38
 Shank diameter 0.145" (3.7 mm) for steel. Packaged in boxes of 100.

| Description | Thread | Shank |
|---------------|--------|-------|
| EW6-11-12 D12 | 3/8" | 1/2" |
| EW6-20-12 D12 | 3/4" | 1/2" |
| EW6-28-12 D12 | 1" | 1/2" |
| EW6-38-12 P12 | 1 1/2" | 1/2" |

X-DW Pins
 Shank diameter 0.118" (3.0 mm) for concrete. Packaged in boxes of 1000.

| Description | Length |
|-------------|----------------|
| X-DW20THP | 3/4" (20 mm) |
| X-DW27THP | 1" (27 mm) |
| X-DW39THP | 1 5/8" (39 mm) |
| X-DW20MX | 3/4" (20 mm) |
| X-DW27MX | 1" (27 mm) |

1/4" - 20 STUDS EW6-11, 20, 28, 38
 Shank diameter 0.145" (3.7 mm) for steel. Packaged in boxes of 100.

| Description | Thread | Shank |
|--------------|--------|-------|
| EW6-11-12 P8 | 3/8" | 1/2" |
| EW6-20-12 P8 | 3/4" | 1/2" |
| EW6-28-12 P8 | 1 1/8" | 1/2" |
| EW6-38-12 P8 | 1 1/2" | 1/2" |

X-ZF PINS
 Shank diameter 0.138" (3.5 mm) for concrete and steel. Combos include 1000 pins and boosters packaged separately.

| Description | Length | Diameter | Description | Length | Diameter |
|-------------|--------|----------|-------------|--------|----------|
| ZF 14 THP | 1/2" | 0.145" | ZF 42 P8 | 1 5/8" | 0.138" |
| ZF 20 THP | 3/4" | 0.145" | ZF 47 P8 | 1 7/8" | 0.138" |
| ZF 27 P8 | 1" | 0.138" | ZF 52 P8 | 2" | 0.138" |
| ZF 32 P8 | 1 1/4" | 0.138" | ZF 62 P8 | 2 1/2" | 0.138" |
| ZF 37 P8 | 1 1/2" | 0.138" | | | |

3/8" - 16 STUDS
 Shank diameter 0.205" (5.2 mm) for concrete. Packaged in boxes of 100.

| Description | Thread | Shank |
|----------------|--------|--------|
| W10-30-27 P10 | 1 1/4" | 1" |
| W10-30-32 P10 | 1 1/4" | 1 1/4" |
| W10-30-32 P10K | 1 1/4" | 1 1/4" |
| W10-30-42 P10 | 1 1/4" | 1 5/8" |

X-CF PINS (Packaged 2000/box with cartridge)

| Description | Length | Shank Dia. |
|-----------------|--------|------------|
| CF62P8 Combo | 2 1/2" | 0.138" |
| CF72P8S23 Combo | 2 7/8" | 0.145" |

3/8" - 16 STUDS
 Shank diameter 0.205" (5.2 mm) for steel. Packaged in boxes of 100.

| Description | Thread | Shank |
|----------------|--------|-------|
| EW10-30-15 P10 | 1 1/4" | 3/8" |

DS HEAVY-DUTY PINS
 Shank diameter 0.177" (4.5 mm) for concrete and steel. Packaged in boxes of 100.

| Description | Length | Description | Length |
|-------------|----------------|-------------|-----------------|
| DS 27 P10 | 1" (27 mm) | DS 57 P10 | 2 1/4" (57 mm) |
| DS 32 P10 | 1 1/4" (32 mm) | DS 62 P10 | 2 1/2" (62 mm) |
| DS 37 P10 | 1 1/2" (37 mm) | DS 72 P10 | 2 7/8" (72 mm) |
| DS 42 P10 | 1 5/8" (42 mm) | DS 82 P10 | 3 1/4" (82 mm) |
| DS 47 P10 | 1 7/8" (47 mm) | DS 97 P10 | 3 3/4" (97 mm) |
| DS 52 P10 | 2" (52 mm) | DS 117 P10 | 4 5/8" (117 mm) |

X-ZF Pins with pre-mounted 23 mm and 36 mm Diameter Steel Washers
 Combos include 1000 pins and boosters packaged separately.

| Description | Length | Shank Dia. |
|-------------|----------------|------------|
| ZF 27 P8S23 | 1" (27 mm) | 0.138" |
| ZF 32 P8S23 | 1 1/4" (32 mm) | 0.138" |
| ZF 37 P8S23 | 1 1/2" (37 mm) | 0.138" |
| ZF 42 P8S23 | 1 5/8" (42 mm) | 0.138" |
| ZF 47 P8S23 | 1 7/8" (47 mm) | 0.138" |
| ZF 52 P8S36 | 2" (52 mm) | 0.138" |
| ZF 62 P8S36 | 2 1/2" (62 mm) | 0.138" |
| ZF 72 P8S36 | 2 7/8" (72 mm) | 0.145" |

EDS HEAVY-DUTY PINS
 Shank diameter 0.177" (4.5 mm) for steel. Packaged in boxes of 100.

| Description | Length |
|-------------|--------------|
| EDS 19 P10 | 3/4" (19 mm) |
| EDS 22 P10 | 7/8" (22 mm) |

X-DNI Pins with 15 mm and 36 mm Diameter Steel Washers
 Pre-mounted steel washer with DNI 32 P8 and DNI 72 P8

| Description | Length | Shank Dia. |
|--------------|----------------|------------|
| DNI 32 P8S15 | 1 1/4" (32 mm) | 0.145" |
| DNI 32 P8S36 | 1 1/4" (32 mm) | 0.145" |
| DNI 72 P8S36 | 2 7/8" (72 mm) | 0.145" |

3.2.1

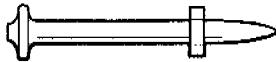
General Application Fastener

3.2.1.1 Product Description

General application powder actuated fasteners include a wide variety of nails and threaded studs for fastening to steel and concrete.

X-AL-H

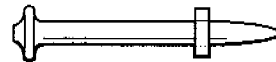
The Hilti X-AL-H Powder Actuated Fastener is designed for fastening into high strength concrete (4500-7200 psi) and steel (A36-A572 Grade 65) which is beyond the limits for standard fasteners. This zinc plated fastener is available in lengths from 5/8" (16 mm) to 27/8" (72 mm).



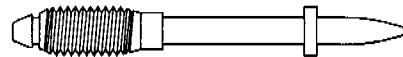
| Description | Shank Length | | Shank Dia. | |
|-------------|--------------|------|------------|-------|
| | in. | (mm) | in. | (mm) |
| X-AL-H16 P8 | 5/8 | (16) | 0.145 | (3.7) |
| X-AL-H19 P8 | 3/4 | (19) | 0.158 | (4.0) |
| X-AL-H22 P8 | 7/8 | (22) | 0.158 | (4.0) |
| X-AL-H27 P8 | 1 | (27) | 0.177 | (4.5) |
| X-AL-H32 P8 | 1 1/4 | (32) | 0.177 | (4.5) |
| X-AL-H37 P8 | 1 1/2 | (37) | 0.177 | (4.5) |
| X-AL-H42 P8 | 1 5/8 | (42) | 0.177 | (4.5) |
| X-AL-H47 P8 | 1 7/8 | (47) | 0.177 | (4.5) |
| X-AL-H52 P8 | 2 | (52) | 0.177 | (4.5) |
| X-AL-H57 P8 | 2 1/4 | (57) | 0.177 | (4.5) |
| X-AL-H62 P8 | 2 1/2 | (62) | 0.177 | (4.5) |
| X-AL-H67 P8 | 2 5/8 | (67) | 0.177 | (4.5) |
| X-AL-H72 P8 | 2 7/8 | (72) | 0.177 | (4.5) |

X-CR

The Hilti X-CR Corrosion Resistant Fastener is a powder actuated stainless steel fastener. Made from a proprietary material, the X-CR provides a level of corrosion resistance equivalent to AISI 316 stainless steel and is available in lengths from 9/16" (14 mm) to 2 1/8" (54 mm).



| Description | Shank Length | | Shank Dia. | |
|-------------|--------------|------|------------|-------|
| | in. | (mm) | in. | (mm) |
| X-CR14 P8 | 9/16 | (14) | 0.145 | (3.7) |
| X-CR16 P8 | 5/8 | (16) | 0.145 | (3.7) |
| X-CR18 P8 | 1 1/16 | (18) | 0.145 | (3.7) |
| X-CR21 P8 | 1 3/16 | (21) | 0.145 | (3.7) |
| X-CR24 P8 | 1 5/16 | (24) | 0.145 | (3.7) |
| X-CR29 P8 | 1 1/8 | (29) | 0.145 | (3.7) |
| X-CR34 P8 | 1 5/16 | (34) | 0.145 | (3.7) |
| X-CR39 P8 | 1 9/16 | (39) | 0.145 | (3.7) |
| X-CR44 P8 | 1 3/4 | (44) | 0.158 | (4.0) |
| X-CR54 P8 | 2 1/8 | (54) | 0.158 | (4.0) |



| Description | Thread Length | | Shank Length | | Shank Dia. |
|------------------|---------------|------|--------------|------|-------------|
| | in. | (mm) | in. | (mm) | |
| X-CRW6-11-12 FP8 | 7/16 | (11) | 1/2 | (12) | 0.145 (3.7) |
| X-CRW6-11-27 FP8 | 7/16 | (11) | 1 1/16 | (27) | 0.145 (3.7) |
| X-CRW6-22-12 FP8 | 7/8 | (22) | 1/2 | (12) | 0.145 (3.7) |
| X-CRW6-22-27 FP8 | 7/8 | (22) | 1 1/16 | (27) | 0.145 (3.7) |
| X-CRM8-9-12FP10 | 1 1/32 | (9) | 1/2 | (12) | 0.158 (4.0) |
| X-CRM8-9-12P8 | 1 1/32 | (9) | 1/2 | (12) | 0.158 (4.0) |
| X-CRM8-15-12FP10 | 5/8 | (15) | 1/2 | (12) | 0.158 (4.0) |
| X-CRM8-15-12P8 | 5/8 | (15) | 1/2 | (12) | 0.158 (4.0) |



**F. RODGERS INSULATION
RESIDENTIAL, INC.**
THERMAL INSULATION CONTRACTORS
Residential

7704

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(925) 294-9400 • FAX (925) 294-9475

1300 S RIVER RD. #125 • W. SACRAMENTO, CA 95691
(916) 386-9400 • FAX (916) 386-9446

THIS IS TO CERTIFY THE INSULATION HAS BEEN INSULATED IN ACCORDANCE WITH CURRENT ENERGY REGULATIONS CALIFORNIA MEASUREMENT CODE TITLE 24, CODE OF CALIFORNIA REGULATIONS AND IS LOCATED AT:

Paramount. Built LOT # 8 TRACT # Villaggio Apt.

STREET _____ CITY Sac.

EXTERIOR WALLS:

MANUFACTURER 1/m THICKNESS/TYPE _____ R-VALUE 13

CEILINGS:

BATTS: MANUFACTURER 1/m THICKNESS/TYPE 12/2 R-VALUE 30

BLOWN IN: MANUFACTURER 1/m MINIMUM THICKNESS 12/2 R-VALUE 30

SQUARE FOOTAGE COVERED 6958 NUMBER OF BAGS USED 146

FLOORS & OVERHANGS:

MANUFACTURER _____ THICKNESS/TYPE _____ R-VALUE _____

OTHER: MANUFACTURER _____ THICKNESS/TYPE _____ R-VALUE _____

GENERAL CONTRACTOR _____
CALIFORNIA CONTRACTORS LICENSE # _____

DATE _____

SIGNATURE

TITLE

INSULATION CONTRACTOR F. RODGERS INSULATION RESIDENTIAL
CALIFORNIA CONTRACTORS LICENSE #771285

DATE 10/4/03

Otelio GA
SIGNATURE

TITLE