

# RNC Anchor Inc. <http://www.rncanchors.com>

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## **FALL ARREST ROOF ANCHORS - Specification**

**For a complete turnkey solution for your fall arrest, fall restraint, or travel restraint systems please call us for help. We will design, supply and install for you. Please call RNC Anchor Inc. at 613 736 7654, or e-mail us at [cam@roofersworld.com](mailto:cam@roofersworld.com)**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

A. Supply and installation of fall arrest roof anchors, including:

1. Fall Arrest Roof anchors
2. Fall Arrest Wall anchors
3. Davit arms and bases
4. Travel Restraint Anchors

#### **1.02 RELATED SECTIONS**

- A. Section 03300 - Cast-in-Place Concrete
- B. Section 05210 - Steel Joists
- C. Section 05300 - Metal Deck
- D. Section 06100 - Rough Carpentry
- E. Section 07200 - Thermal Protection
- F. Section 07500 - Membrane Roofing
- G. Section 07900 - Joint Sealers

#### **1.03 REFERENCES**

A. The work of this Section to conform to:

*Canadian*

##### **1. National Standards of Canada**

- A. CAN/CSA-Z91 (Safety Code for Suspended Equipment Operations).
- B. CAN/CSA- Z271 (Safety Code for Suspended Elevating Platforms).

## **2. Canadian Standards Association**

- A. CSA G40.21, M350W and M300W (Structural Quality Steels).
- B. CSA W47.1 (Certification of Companies for Fusion Welding of Steel Structures).
- C. CSA W59 (Welded Steel Construction - Metal ARC Welding).
- D. CSA G164 (Hot Dip Galvanizing of Irregularly Shaped Articles).

## **3. Ontario Ministry of Labour Regulations**

- A. Ontario Regulation 859 (Window Cleaning), 213 (Construction Projects), 851 (Industrial Establishments).

## **4. Ontario New Home Warranty Program**

- A. ONHWP Condominium Construction Guide (Chapter 12 - Roof Anchors).

## **5. Canadian General Standards Board**

- A. CGSB-51-GP 46MP (Manual for Installers of Spray Urethane Foam Thermal Insulation).

## **6. Canadian Urethane Foam Contractor's Association**

- A. CUFCA Manual for Installers of Spray Polyurethane Foam Thermal Insulation.

## **7. International Window Cleaner's Association**

- A. IWCA I 14 (Window Cleaning Safety Standard).

## **8. Aluminum Association**

- A. AA 5AS-30 (Specifications for Aluminum Structures)

### **1.04 SYSTEM DESCRIPTION**

- A. Design safety anchor fall protection [or travel restraint] system to provide for safe execution of window washing and other suspended equipment operations [or service and maintenance of roof mounted equipment].
- B. Co-ordinate work of this Section with Section 07500 - Membrane Roofing, to provide continuous waterproof protection.
- C. Design for fall arrest anchors to resist without fracture a pull-out force of 5000 lbs (22 kN), applied in the most adverse direction.

## 1.05 SUBMITTALS

- A. Manufacturer's descriptive literature for each product, including section or other type details.
- B. Manufacturer's written installation instructions.
- C. Shop drawings and samples, when required, in accordance with Section [01300]. Shop drawings to show roof layout indicating location and spacing of anchors, including dimensions, detail drawings of securement to structure, design details, and similar data. Drawings to bear stamp of Professional Engineer licensed in the Province in which the project is located.
- D. Upon completion of project, provide Owner with Log Book for mandatory annual inspection.
- E. Upon completion of project, provide Owner with roof plan showing layout of safety anchor system. This plan needs to be posted at exits to roof.

## 1.06 QUALITY ASSURANCE

- A. Fall arrest roof anchors manufacturer to have minimum 3 years documented experience in the design and fabrication of fall protection systems.
- B. Comply with all requirements of:
  - 1. [NBC (National Building Code of Canada)].
  - 2. [OBC (Ontario Building Code)].
  - 3. [Local Code Applicable].

## **PART 2 PRODUCTS**

### 2.01 MANUFACTURER

- A. Provide products as manufactured by RNC Anchors Inc, 613 736 7654.
  - 1. Structural integrity backed by \$5,000,000.- liability insurance
  - 2. Injection molded urethane insulation to CGSB-51-GP 46MP and ASTM C1029-90, as applicable;
  - 3. Maintenance free design;
  - 4. Materials and size options;
  - 5. Treated flashing deck flange, as applicable;
  - 6. Written installation instructions.

### 2.02 MANUFACTURED UNITS

**Note: Delete clauses not applicable.**

### **Fall Arrest Anchors**

- A. RA-1, Cast-in-Concrete Roof Anchors:** RNC RA-1 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. x 12" (305mm) high welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate; single 3/4" (19mm) Type 18-8 s.s. threaded rod with EPDM weather seal, top nut and washer, lock washer and nut; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-OT alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- B. RA-2, Bolt-through-Concrete Roof Anchors:** RNC RA-2 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. x 12" (305mm) high welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate; single 3/4" (19mm) Type 18-8 s.s. threaded rod with EPDM weather seal, top nut and washer, lock washer and nut, and 44W 1/4" x 6" x 6" (6mm x 102mm x 102mm) underside plate, lock washer and nut; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-OT alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- C. RA-3, Adhesive Bolt Roof Anchors:** RNC RA-3 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. x 12" (305mm) high welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate prepared to receive four 3/4" (19mm) dia. Type 18-8 s.s. threaded rods as adhesive anchor bolts using [Simpson Acrylic Tie] [Hilti HIT HY-150] adhesive; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-OT alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- D. RA-4, Weld-to-I-Beam Roof Anchors:** RNC RA-4 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. x 18" (457mm) high welded to 5/8" x 5" x 5" (16mm x 127mm x 127mm) 44W base plate ready to be welded to steel I-beam (Note: grind off galvanized surfaces prior to welding as per CSA W59); 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-OT alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- E. RA-5, Weld-to-HSS (spanning OWSJ joists) Roof Anchors:** RNC RA-5 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm)

wall thickness x 4-1/2" (114mm) dia. x 18" (457mm) high welded to 5/8" x 5" x 5" (16mm x 127mm x 127mm) 44W base plate ready to be welded to 6" x 3" x 1/4" (152mm x 76mm x 6 mm) HSS spanning between two adjacent steel joists (Note: grind off galvanized surfaces prior to welding as per CSA W59, reinforce joist as required where HSS is welded to underside of top chord of joist); 7" (178mm) high spun aluminum flashing of .064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.

- F. RA-6, Clamped-around-I-Beam or OWSJ Roof Anchors:** RNC RA-6 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. x 18" (457mm) high welded to 5/8" x 8" x 8" (16mm x 127mm x 127mm) 44W base plate, same size underside plate (primer painted) and 1/4" x 4" x 4" (6mm x 102mm x 102mm) HSS cross tube spanning two joists/I-beams, ready to be bolted around top chord of OWSJ or I-beam using four 3/4" type 18-8 s.s threaded rods with lock washers and nuts; 7" (178mm) high spun aluminum flashing of .064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- G. RA-7, Bolt-Through Wall Anchors:** RNC RA-7 fall arrest wall anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with single 3/4" (19mm) dia. Type 18-8 s.s. threaded rod, lock washer, nut and 1/4" x 6" x 6" (6mm x 152mm x 152mm) 44W steel back plate.
- H. RA-8, Cast-in-Concrete Wall Anchors:** RNC RA-8 fall arrest wall anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with single 3/4" (19mm) dia. Type 18-8 s.s threaded rod, lock washer, and nut.
- I. RA-9, Adhesive Bolt Wall Anchors:** RNC RA-9 fall arrest wall anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) [44W galv. steel base plate] [Type 304 s.s. base plate] prepared to receive four 3/4" (19mm) dia. Type 18-8 s.s. threaded rods as adhesive anchor bolts using [Simpson Acrylic Tie] [Hilti HIT HY-150] adhesive.
- J. RA-10, Cladding Bolt Wall Anchors:** RNC RA-10 fall arrest wall anchor [with galvanized steel eye] [with Type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with single 3/4" (19mm) dia. Type 18-8 s.s. threaded rod and EPDM washer seal, 50W (ASTM 500C) HSS cladding spacer 1/4" (6mm) wall thickness x 4-1/2" (114mm), 1/4" x 6" x 6" (6mm x 102mm x 102mm) 44W steel back plate, lock washer and nut.
- K. RA-11, Pier Bolt Wall Anchors:** RNC RA-11 fall arrest wall anchor [with galvanized steel eye] [with Type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with single 3/4" (19mm) type 18-8 s.s. threaded rod with EPDM washer, s.s. 1/4" x 4" x 4" (6mm x 102mm x 102mm) s.s. back plate;

1/4" x 4" x 4" (6mm x 102mm x 102mm) galvanized 50W (ASTM 500C) HSS pier welded to a 5/8" x 8" x 8" (16mm x 203mm x 203mm) galvanized 44W base plate prepared to receive four 3/4" (19mm) type 18-8 s.s. threaded rods as adhesive anchor bolts using [Simpson Acrylic Tie] [Hilti HIT HY-150] adhesive.

- L. RA-12, Rope-Drop Roof Anchors:** RNC RA-12 fall arrest roof anchor [with galvanized steel round rod] [with type 304 stainless steel round rod] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with: hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 4-1/2" (114mm) dia. protruding 14" (355mm) above concrete slab and through the slab below (length to suit thickness of concrete slab), with 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate [cast-in-concrete] [ready to receive four 3/4" (19mm) Type 18-8 s.s. threaded rods as adhesive bolts]; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing; galvanized steel cap attached to top of anchor via a 1/8" (3mm) s.s. cable.
- M. RA-13, Patio Anchors:** RNC RA-13 fall arrest roof anchor [with galvanized steel eye] [with type 304 stainless steel eye] to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate prepared to receive four 3/4" (19mm) dia. Type 18-8 s.s. threaded rods as adhesive anchor bolts using [Simpson Acrylic Tie] [Hilti HIT HY-150] adhesive; 22 ga. x 11-1/2" x 11-1/2" (0.76mm x 292mm x 292mm) perforated type 304 s.s. enclosure box with solid 1/8" x 12" x 12" (3mm x 305mm x 305mm) s.s. pan formed cover; anchor base and bolts are covered with Chem-Curb (1-part sealer).
- N. RA-24, Bolt-through-concrete Rope Stops:** RNC RA-24 rope stop with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 12" to 40" (305mm to 1m) high welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate; single 3/4" (19mm) type 18-8 s.s. threaded rod with EPDM weather seal, top nut and washer, lock washer and nut, and 44W 1/4" x 6" x 6" (6mm x 102mm x 102mm) underside plate, lock washer and nut; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- O. RA-25, Adhesive Rod Rope Stops:** RNC RA-25 rope stop with 3/4" (19mm) type 18-8 or 304 stainless steel rod welded in a T-shape for installation in concrete parapets using [Simpson Acrylic Tie] [Hilti HIT HY-150] adhesive.
- P. TR-1, Cast-in-Concrete Travel Restraint Roof Anchors:** RNC TR-1 travel restraint roof anchor [with galvanized forged steel eye nut] [with stainless steel forged eye nut] [with 1/2"-UNC or M12 thread ready to receive travel restraint brackets] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 18" (457mm) high, welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate; single 5/8" (16mm) Type 18-8 s.s. threaded rod with EPDM weather seal washer, flat washer and nut; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper]

[.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.

- Q. TR-2, Bolt-through-Concrete Travel Restraint Roof Anchors:** RNC TR-2 travel restraint roof anchor [with galvanized forged steel eye nut] [with stainless steel forged eye nut] [with ½"-UNC or M12 thread ready to receive travel restraint brackets] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 18" (457mm) high welded to 5/8" x 8" x 8" (16mm x 203mm x 203mm) 44W base plate; single 3/4" (19mm) Type 18-8 s.s. threaded rod with EPDM weather seal washer, flat washer and nut, and 44W 1/4" x 6" x 6" (6mm x 102mm x 102mm) underside plate, lock washer and nut; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- R. TR-3, Weld-to-I-Beam Travel Restraint Roof Anchors:** RNC TR-3 travel restraint roof anchor [with galvanized steel forged eye] [with stainless steel forged eye] [with ½"-UNC or M12 thread ready to receive travel restraint brackets] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 18" (457mm) high welded to 5/8" x 4" x 4" (16mm x 102mm x 102mm) 44W base plate ready to be welded to steel I-beam (Note: grind off galvanized surfaces prior to welding as per CSA W59); 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- S. TR-4, Clamped-around-I-Beam or OWSJ Travel Restraint Roof Anchors:** RNC TR-4 travel restraint roof anchor [with galvanized steel forged eye] [with stainless steel forged eye] [with ½"-UNC or M12 thread ready to receive travel restraint brackets] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 18" (457mm) high welded to 5/8" x 8" x 8" (16mm x 127mm x 127mm) 44W base plate, same size underside plate (primer painted) and ¼" x 4" x 4" (6mm x 102mm x 102mm) HSS cross tube spanning two joists/I-beams ready to be bolted around top chord of OWSJ or I-beam using four ¾" type 18-8 s.s threaded rods with lock washers and nuts; 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- T. TR-5, Weld-to-HSS (spanning OWSJ joists) Travel Restraint Roof Anchors:** RNC TR-5 travel restraint roof anchor [with galvanized steel forged eye] [with stainless steel forged eye] [with ½"-UNC or M12 thread ready to receive travel restraint brackets] with: urethane insulated hollow hot dipped galvanized [CSA G40.21-50W] [ASTM 500C] steel post (HSS) 1/4" (6mm) wall thickness x 2-3/8" (60mm) dia. x 18" (457mm) high welded to 5/8" x 5" x 5" (16mm x 127mm x 127mm) 44W base plate ready to be welded to 6" x 3" x ¼" (152mm x 76mm x 6 mm) HSS spanning two adjacent steel joists (Note: grind off galvanized surfaces prior to welding as per CSA W59, reinforce joist as required where HSS is welded to

underside of top chord of joist); 7" (178mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.

- U. **DB-1, Davit Bases:** RNC DB-1 Davit Base to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F], with urethane filled, hot dipped galvanized 50W (ASTM 500C) steel base 8.63" dia. x 1/4" (219mm x 6mm) welded to 3/4" x 14" x 14" (19mm x 356mm x 356mm) 44W steel base plate ready to received four 3/4" type 18-8 s.s. threaded rods, pre-cast in concrete slab, secured with s.s. flat washer and hex nut; 10" (254mm) high spun aluminum flashing of [.064" (1.6mm) mill finish 1100-0T alloy aluminum] [.032" (0.831mm) 24 oz. copper] [.031" (0.79mm) 22 ga. Type 304 stainless steel] to CSA B272-93, with Eternabond tape all around top of flashing.
- V. **Davit Arm:** RNC Davit Arm to [CSA Z91-02] [OSHA 1910.66, Sub parts D and F] with galvanized steel swivel base with PE liner, stainless steel pin connection to aluminum davit arm tethered with 1/8" (3mm) s.s. cable; mast upright 8.63" O.D. Schedule 40 (220mm x 8mm) 6061-T6 extruded aluminum with handle grips; horizontal 6061-T6 alum. Arm 6.63" Schedule 40 (168mm x 7mm) with type 304 s.s. sliding lug and 3.5" O.D. x 0.25" (89mm x 6mm) 6061-T6 aluminum brace. Mast, arm and brace are pinned together using a 3/4" (19mm) type 304 s.s. quick release pins, tethered with 1/8" (3mm) s.s. cable.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Report to the Contractor in writing, defects of work prepared by other trades and other unsatisfactory site conditions. Verify site dimensions. Commencement of work will imply acceptance of prepared work.

**Note: Review design criteria for tapered roof insulation systems if necessary for specific projects. Height of anchor may be affected.**

### **3.02 PREPARATION**

**Note: The following clauses apply to re-roofing or retrofit installations only.**

- A. For re-roofing or retrofit work, remove existing roof assembly as necessary to allow for installation of roof anchors.
- B. In the event of structural deficiencies, deck corrosion or deterioration, ensure that a structural engineer has assessed and approved all surfaces upon which the work of this Section depends. Institute repairs and/or reinforcement where necessary.
- C. If necessary, protect building interior and contents against ingress of water, dust, debris or other material.

### **3.03 INSTALLATION**



A. [Roof Anchors] [Davits] [Outriggers]

1. Install anchors or equipment in accordance with manufacturer's printed instructions, shop drawings and as specified.
2. Ensure anchors or equipment is installed under the direct supervision of a Professional Engineer [and/or Roofing Consultant].
3. Where necessary, provide protection against deterioration due to contact of dissimilar materials.
4. Where bolting is used for fastening anchors, no fewer than two stainless steel threads is to be exposed and the nut is to be positively locked by deforming threads, welding, pinning or equivalent method.
5. Ensure work is inspected and approved prior to application of roofing.

B. Flashing

1. Install roof anchor flashing in accordance with manufacturer's printed instructions, shop drawings and as specified.

*BUR*

2. Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

*Modified Bitumen*

3. Torch membrane until bitumen is fluid and set flashing deck flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

*Single Ply*

4. Set deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to a flashing.

**Note: For PVC membrane, specify PVC coated flashing; weld roofing to deck flange using PVC torch.**

*PVC Single Ply*

5. Set deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to flashing. Weld roofing to deck flange using PVC torch.
6. Apply Eternabond tape all around anchor post at top of flashing.

C. Retrofit Work

1. Remove sufficient area of roofing down to deck level to facilitate anchor installation.

2. Where possible and as directed by Roofing Consultant, reuse any salvageable materials and restore roofing system to match original.
3. Structural adequacy of a parapet or other part of the building on which the support system is placed shall be verified by a professional engineer before rigging.

#### 3.04 FIELD QUALITY CONTROL

- A. Comply with the requirements of Section [01400 - Quality Control].
- B. All anchor work to be inspected by a qualified testing agency, Professional Engineer [and/or Roof Consultant] upon completion of work.

**Note: Field testing of roof and wall anchor products is recommended but not required. Only the field testing of adhesive fasteners is required. In rare instances where adhesive fasteners must be tested after roof anchors have been roofed in, consult a Professional Engineer for calculation of the load requirement prior to testing.**

#### 3.05 ADJUSTING AND FINAL INSPECTION

- A. Verify that all manufactured units have been installed in accordance with specifications and details, and will function as intended. Adjust any items where necessary to ensure proper operation.
- B. Provide necessary documentation certifying system is acceptable for service (Engineer's Certificate of Acceptance).

#### 3.06 CLEANING

- A. Clean manufactured units using materials and methods approved by manufacturer. Do not use cleaners or techniques which could impair performance of the roofing system.

**For a complete turnkey solution for your fall arrest, or fall restraint systems please call us for help. We will design, supply and install for you. Please call RNC Anchor Inc. at 613 736 7654, Ext. 102, or e-mail us at [cam@roofersworld.com](mailto:cam@roofersworld.com)**