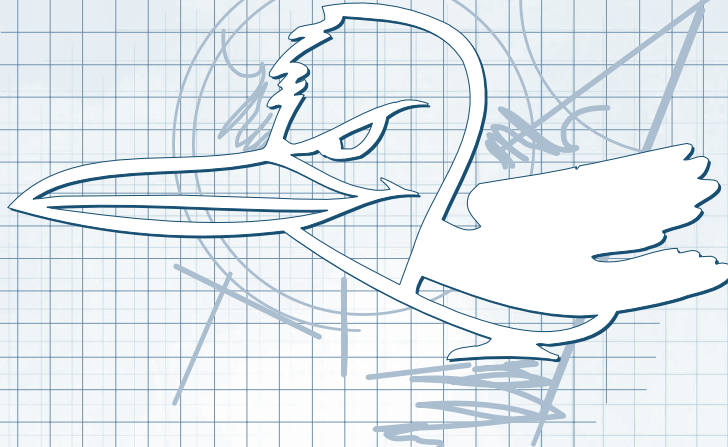




RED HEAD®

Fastening Applications Guide



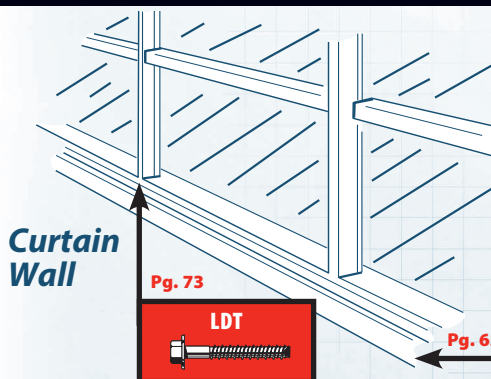
This section highlights a variety of trade applications and provides information that will assist you in selecting the best fastening system for your application.

While these are not to be considered complete, they will give you an idea of how contractors use our products.

For example, on the Electrical Contractor page, you will find applications, such as junction box/panel boards and

suspended lighting. Next to the diagrams are the product name(s) and page number in this catalog where you will find complete information on these products needed for that particular application.

Curtain Wall Applications



Curtain Wall

Pg. 73

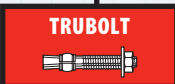


- Design allows for expansion and contraction of the frame
- Finished head
- Works in multiple base materials

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening



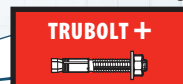
Pg. 71



Pg. 65

- Can be set thru fixture
- Available in stainless steel
- Can be set with torque wrench

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

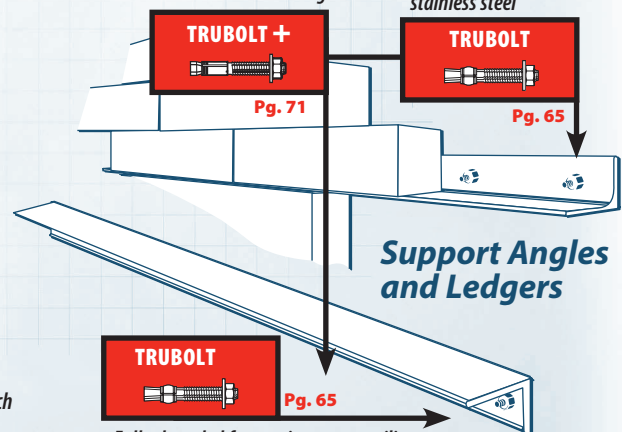


Pg. 71

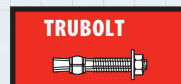
- Fully threaded for maximum versatility
- Available in carbon steel, hot dipped galvanized or stainless steel



Pg. 65



Support Angles and Ledgers



Pg. 65

- Fully threaded for maximum versatility
- Carbon steel, hot dipped galvanized or stainless steel available

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

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Electrical Contractor Applications



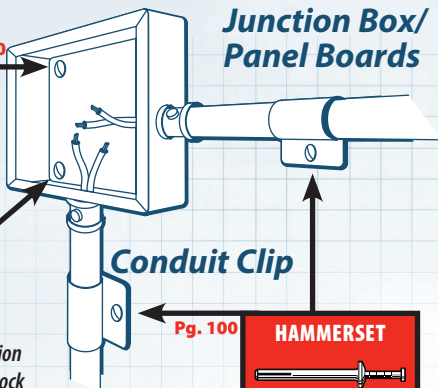
Pg. 100

- Simple to install
- Drill hole, hammer into hole



Pg. 87

- Counter sunk flathead style for flush installation
- Works in concrete or block
- Available in 3/16" and 1/4" diameters



**Junction Box/
Panel Boards**

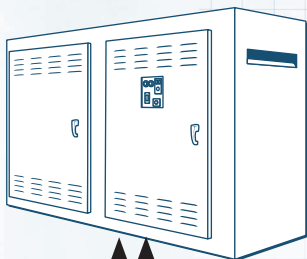
Conduit Clip

Pg. 100



- Simple to install
- Drill hole, hammer into hole

**Transformers Switch Gear
Electrical Enclosures**



Pg. 65



- Available in carbon, hot dipped galvanized, 304 and 316 stainless steel

Pg. 71

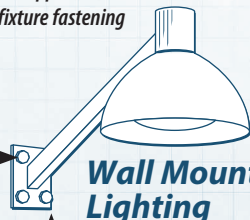


- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening



Pg. 84

- Counter sunk and threshold head styles also available
- Works in concrete, block and brick



**Wall Mounted
Lighting**

Pg. 73



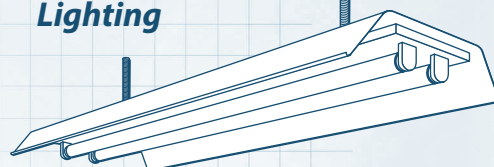
- Works in solid concrete, hollow block and brick
- Cuts a thread into the mounted surface
- Finished head appearance

- Available in special 3/8" version for precast planks
- Available in sizes 1/4" thru 3/4" internal thread diameters



Pg. 79

**Suspended
Lighting**

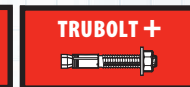


- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Used with rod coupler
- Used with Rod Coupler

- Used with rod coupler
- 1/4" to 1" diameters

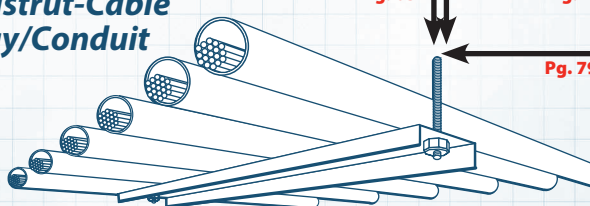


Pg. 65



Pg. 71

**Unistrut-Cable
Tray/Conduit**



Pg. 79



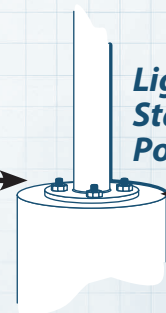
- Available in special 3/8" version for precast planks
- Available in sizes 1/4" thru 3/4" internal thread diameters

- Ideal for closely spaced groups of anchors



Pg. 30

**Light
Standards
Poles**



Pg. 41



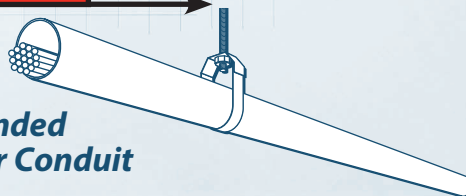
- "Stress Free" anchor—can be used close to edges or in close spacing pattern

- Available in special 3/8" version for precast planks
- Available in sizes 1/4" thru 3/4" internal thread diameters



Pg. 79

**Suspended
Pipe or Conduit**



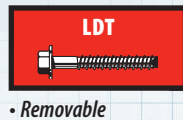
For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.



Mechanical Contractor Applications

Machinery and Equipment



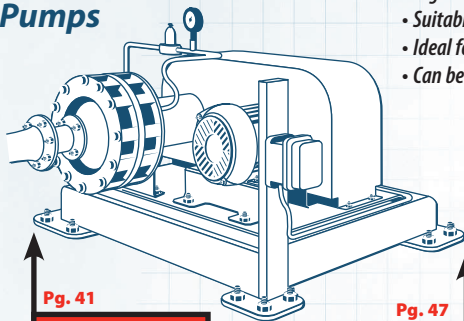
- High Load Capacity
- Suitable for use close to edge of slab
- Ideal for moderate to hot climates
- Can be used for oversized holes

Pg. 41

C6+ ADHESIVE

- Vibration resistant
- Can be used in oversized and core drilled holes
- High load capacity

Pumps



Pg. 41

C6+ ADHESIVE

- Corrosion resistant
- Vibration resistant
- NSF Approved

Pg. 47

G5 ADHESIVE

- High Load Capacity
- Suitable for use close to edge of slab
- Ideal for moderate to hot climates
- Can be used for oversized holes

NOTE:
C6+ and G5 both can be used for oversized holes when repairing pumps and machinery anchoring.

Pg. 87

TAPCON

- Simple to install—drill hole and screw in
- Fire resistant

Ductwork/HVAC



Heavy-Duty Pipe Support

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved

TRUBOLT +

Pg. 71

Pg. 41

C6+/G5 ADHESIVE

- High load capacity
- Corrosion resistant
- NSF Approved

Pg. 65

TRUBOLT

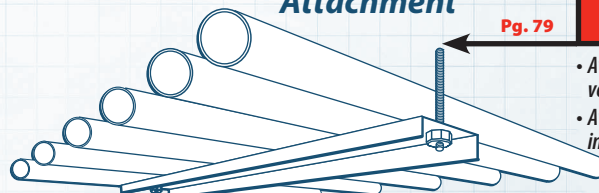
- Carbon, hot dipped galvanized, 304 and 316 stainless steel
- 1/4" to 1" diameters

Pipe/Strut Attachment

Pg. 79

MULTI-SET

- Available in special 3/8" & 1/2" version for prestressed concrete
- Available in 1/4" thru 3/4" internal thread diameters



- Available in special 3/8" & 1/2" version for prestressed concrete
- Available in 1/4" thru 3/4" internal thread diameters

MULTI-SET

Pg. 79

Pipe Support, Fire Sprinkler



For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

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RED HEAD

Drywall Contractor & Carpenter Applications

Window and Door Frames

DYNABOLT

Pg. 84

- Counter sunk and threshold head styles
- Works in concrete, block and brick

TAPCON

Pg. 87

- Works in solid and hollow base material
- Removable
- Can be set flush with Phillips head if counter sunk

Drywall Track

Ceiling Track

Floor Track

Pg. 87

TAPCON

- Simple to use—drill hole and screw in
- Setting tool (C1000) available for tight spaces

Pg. 97

TAPCON

- Counter sunk flathead style for flush installation
- Works in concrete or block
- Available in 3/16" and 1/4" diameters

Furring Strips

Framing/Sill Plating

- Drill hole, install by hand or impact wrench

LDT

Pg. 73

TRUBOLT

Pg. 65

- Full threaded for maximum versatility
- Metro-Dade Approved
- Other approvals on page 66

Pg. 71

TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 30

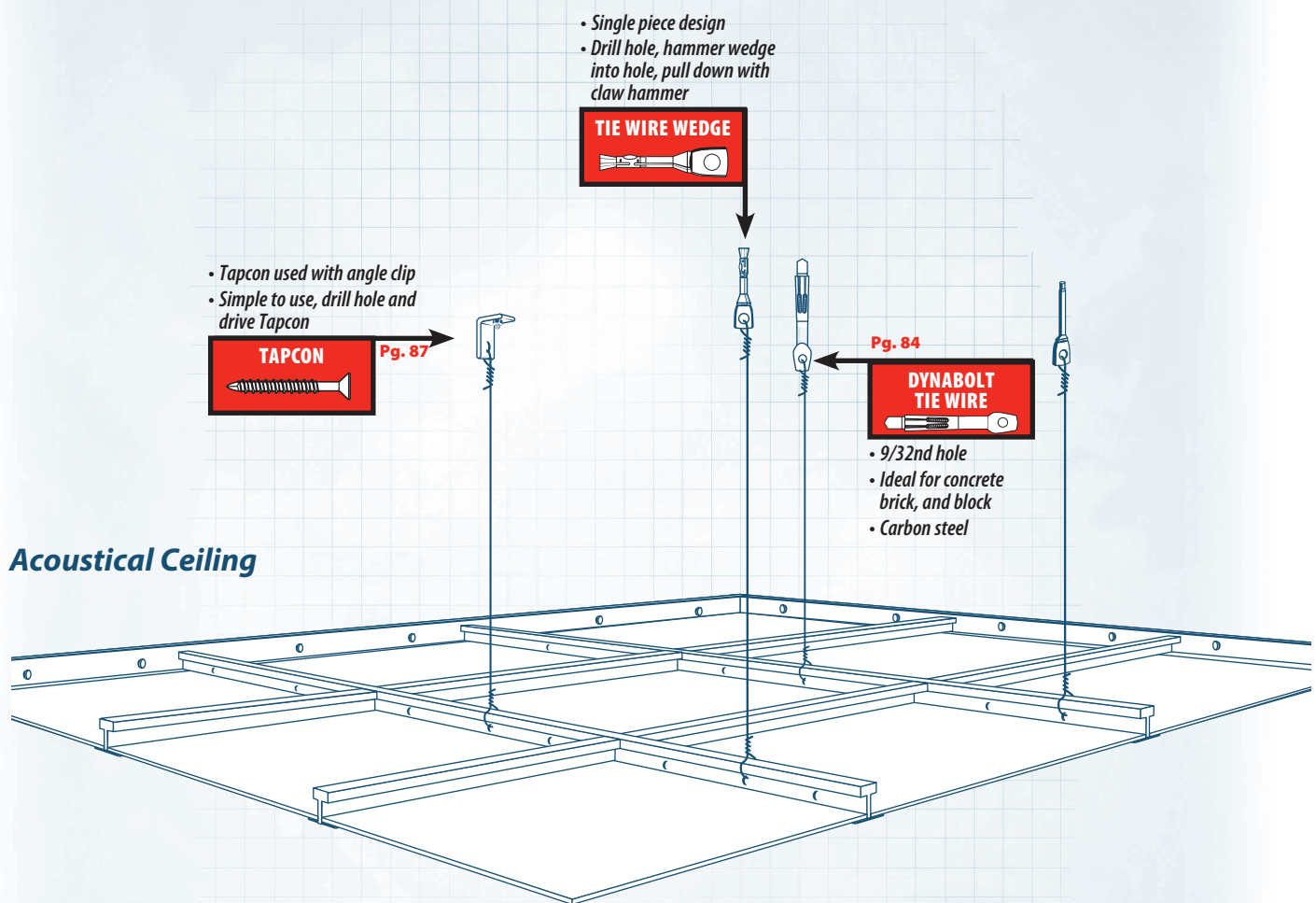
A7/S7 ADHESIVE

- Fast cure
- Works in damp wet conditions
- Use A7 with threaded rod for this application

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

Acoustical Ceiling Installer Applications



For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

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RED HEAD

Steel Erector Applications

Steel Beams/Columns

Pg. 47

C6+/G5 ADHESIVE



- Longer working time for positioning of steel
- Can be used in oversized holes
- Works in wet/damp conditions

Pg. 78

BOA COIL



- High shear strength
- Removable
- Reusable

Pg. 30

A7/S7 ADHESIVE



- Ideal for closely spaced groups of anchors

Stairs and Ladders

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

TRUBOLT +



Pg. 71

TRUBOLT



Pg. 65

- Can be set thru fixture
- Fast and immediate loading

Pg. 73

LDT



- Finished head
- Removable
- For use in concrete

Ornamental Iron

DYNABOLT



Pg. 84

- Multiple head styles
- Ideal for concrete, brick and block
- Carbon and stainless steel

Hand Railings

DYNABOLT



Pg. 84

- Multiple head styles
- Ideal for concrete, brick and block
- Carbon and stainless steel

Protective Railings and Fencing

TRUBOLT +



Pg. 71

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 73

LDT



- Finished head
- Removable
- For use in concrete

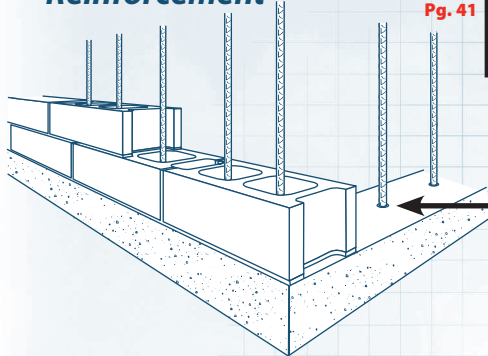
For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.



Concrete & Masonry Contractor Applications

Concrete Block Reinforcement



Pg. 41

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant

C6+ ADHESIVE

Pg. 47

- Fast curing adhesive—ideal for moderate to hot climates

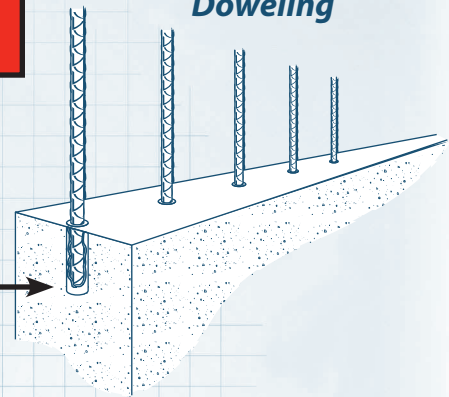
G5 ADHESIVE

Pg. 30

A7/S7 ADHESIVE

- Fast curing adhesive—ideal for moderate to cold climates

Rebar Doweling



Stone Attachment

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 65

Ledger Angle Attachment

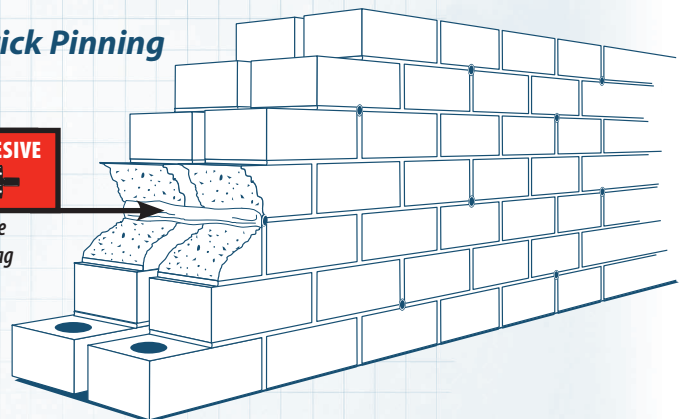


Pg. 71



- Fully threaded for maximum versatility
- Available in carbon, hot dipped galvanized and stainless steel

Brick Pinning

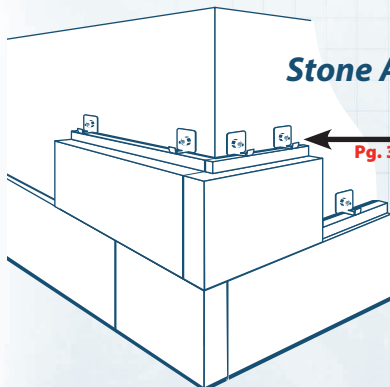


Pg. 30

A7/S7 ADHESIVE

- Compact space
- No-drip—no sag formula
- Easy clean up

Stone Attachment

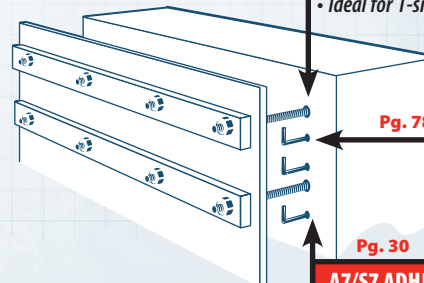


Pg. 30

A7/S7 ADHESIVE

- High load capacity in concrete block
- No drip—no sag formula
- Easy clean up

Concrete Formwork



Pg. 79

COIL THREAD DROP-IN ANCHOR

- Designed for 1/2" and 3/4" coil rods
- Ideal for 1-sided forming

Pg. 78

BOA COIL

- High shear strength
- Removable
- Reusable

Pg. 30

A7/S7 ADHESIVE

- Fast curing adhesive for rebar doweling

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

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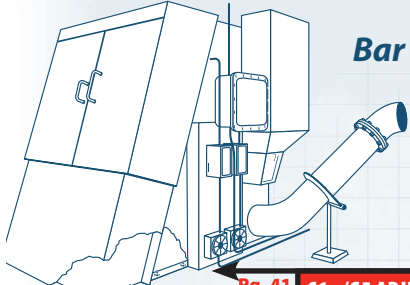


RED HEAD

Water & Waste Water Treatment Applications

Weirs and Gates

Bar Screens



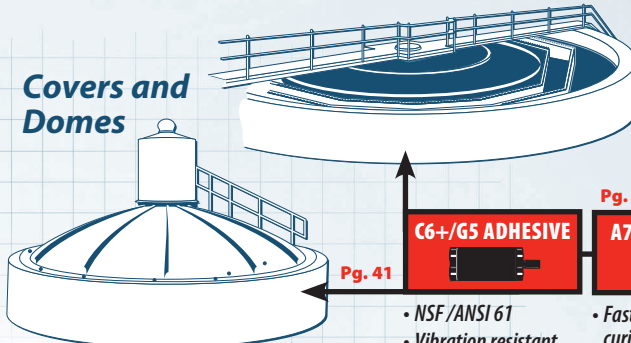
Pg. 30
A7/S7 ADHESIVE

- Fast dispensing, fast curing adhesive
- Works with epoxy coated dowels
- NSF Approved

Pg. 41
C6+/G5 ADHESIVE

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant

Covers and Domes



Pg. 41
C6+/G5 ADHESIVE

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant

Pg. 30
A7/S7 ADHESIVE

- Fast dispensing, fast curing adhesive
- Works with epoxy coated dowels

Railings and Ladders

Pg. 41
C6+/G5/S7 ADHESIVE

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant

Pg. 65
TRUBOLT

- Heavy duty
- 360° hole contact
- 304 and 316 stainless steel

Pg. 71
TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Instrumentation and Controls

Pg. 65
TRUBOLT

- Multiple head styles
- Heavy duty
- 304 and 316 stainless steel

Pg. 71
TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pipe Supports

- Special 3/8" version for prestressed concrete
- Available in 1/4" thru 3/4" internal diameters
- Stainless steel available

Pg. 71
TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 65
TRUBOLT

- Multiple head styles
- Heavy duty
- 360° hole contact
- 304 and 316 stainless steel

Pg. 79
MULTI-SET

Conveyors

Pg. 65
TRUBOLT

- Fully threaded for maximum versatility
- Available in 304, 316 stainless, carbon, and galvanized steel

Pg. 71
TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 73
LDT

- Finished head
- Removable
- Install by hand or with impact wrench

Diffusers

Pg. 30
A7/S7 ADHESIVE

- Fast dispensing, fast curing adhesive
- Works with epoxy coated dowels
- NSF Approved

Pg. 41
C6+/G5 ADHESIVE

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant
- Can be installed underwater

PUMPS

Pg. 41
C6+/A7/S7 ADHESIVE

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant
- Can be used in oversize holes

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

Highway & Bridge Contractor Applications

Concrete Pavement Lane Addition and Joint Repair



- Fast dispensing, fast curing adhesive
- Works with epoxy coated dowels

Pg. 30

5/8" MULTI-SET

- Lipped anchor—remains flush with face of concrete

"J" Bolt

- With or without lip

- Can be used overhead
- Full cure in 1/2 hour at 70 degrees F

C6+/A7/S7 ADHESIVE

Pg. 30

Bridge Mounted Signs

Down Spouts

Pg. 65

TRUBOLT

- Carbon, hot dipped galvanized, 304 or 316 stainless steel

Suspended Conduit

Pg. 71

TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

- Can be used in wet/damp conditions
- Fast cure
- Easy to pump

A7/S7 ADHESIVE

Pg. 30

Guard Rail Attachments to Bridges

Pg. 30

A7/S7 ADHESIVE

- Fast curing
- Can be used in damp or water filled holes

Wire Loops

Glare Screens

Mile Markers

Pg. 73

LDT

- Finished head
- Removable
- Install by hand or with impact wrench

Rebar Doweling

Pg. 30

A7/C6+ ADHESIVE

- Can be used in damp or water filled holes

Pg. 78

BOA COIL

- High shear strength
- Removable
- Reusable

Temporary Fastening of Jersey Barriers to Concrete

A7/S7 ADHESIVE

Pg. 30

- Can be used in wet/damp conditions
- Fast cure
- Easy to pump
- Suitable for use close to edge of slab

Steel Guard Rail Post Attachment to Concrete

Pg. 47

C6+/G5 ADHESIVE

- High Load Capacity
- Suitable for use close to edge of slab
- Ideal for moderate to hot climates
- Can be used for oversized holes

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

Department of Transportation Approvals & Listings

For approvals contact local engineering on a per project basis.

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RED HEAD

General Contractor Applications

Replacement of Misplaced Anchors

Pg. 47

C6+/G5 ADHESIVE

- Ideal for hot climates—extended working time formula

Pg. 73

LDT

Pg. 30

A7/S7 ADHESIVE

- Damp holes or underwater
- Fastest cure (35 min. at 60°F)
- Dispenses and cures faster in cold weather

Cast-In-Place Bolt in Wrong Location

Tilt Wall Anchorage

Pg. 78

BOA COIL

- High shear strength
- Removable
- Reusable

TRUBOLT

Pg. 65

- Available in 3/4" x 7"
- Drill hole deeper than anchor length, drive into hole after use

Pg. 71

TRUBOLT +

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Seismic Hold Downs

- Damp holes or underwater
- Fastest cure (35 min. at 60°F)
- Dispenses and cures faster in cold weather

Pg. 30

A7/S7 ADHESIVE

Pg. 30

A7/S7 ADHESIVE

- Damp holes or underwater
- Fastest cure (35 min. at 60°F)
- Dispenses and cures faster in cold weather

Replacement of Damaged Anchors

Pg. 41

C6+ ADHESIVE

- NSF Approved
- Vibration resistant
- Corrosion resistant
- Can be used in oversize holes

Pg. 47

C6+ ADHESIVE

- Extended working time—ideal for warm to hot climates
- Can be used in oversize holes

Damaged Cast-In-Place Anchor

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.



Material Handling Applications

Overhead Doors

LDT
Pg. 73

- Hand installation block or concrete

A7 ADHESIVE WITH UMBRELLA
Pg. 53

- High load in hollow block or concrete

Shelving

- Removable
- Easy to install
- Single piece design

LDT
Pg. 73

TRUBOLT WEDGE
Pg. 65

- Thru fixture fastening
- Available in hot-dipped galvanized steel, stainless steel

TRUBOLT +
Pg. 71

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Rails

LDT
Pg. 73

- Finished head
- Removable
- Installs with impact wrench

Conveyors

LDT
Pg. 73

- Finished head
- Removable
- Installs with impact wrench
- Single piece design

TRUBOLT WEDGE
Pg. 65

- Thru fixture fastening
- Installs fast with no spotting of holes

TRUBOLT +
Pg. 71

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

- NSF/ANSI 61
- Vibration resistant
- Corrosion resistant
- Can be used in oversize holes

C6+/G5 ADHESIVE
Pg. 41

LDT
Pg. 73

- Finished head
- Removable
- Available with Enorex corrosion resistant high finish

A7/S7 ADHESIVE
Pg. 30

- Fast curing
- Impact resistant
- Non-sag formula

C6+/G5 ADHESIVE
Pg. 47

- Extended working time—ideal for warm to hot climates
- Can be used in oversize holes

Dock Bumpers

- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

TRUBOLT +
Pg. 71

TRUBOLT WEDGE
Pg. 65

- Thru fixture fastening
- Installs fast with no spotting of holes

Racks

LDT
Pg. 73

- Finished head
- Removable
- Installs with impact wrench
- Single piece design

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

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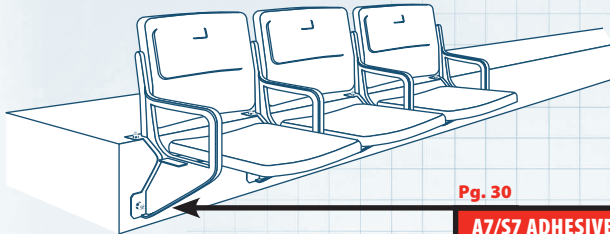
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Specialty Applications

Stadium Seating



Pg. 71

TRUBOLT +



- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

Pg. 65

TRUBOLT



- Corrosion resistant
- Normal weight or lightweight concrete
- Used in major stadiums across the country
- Immediate loading

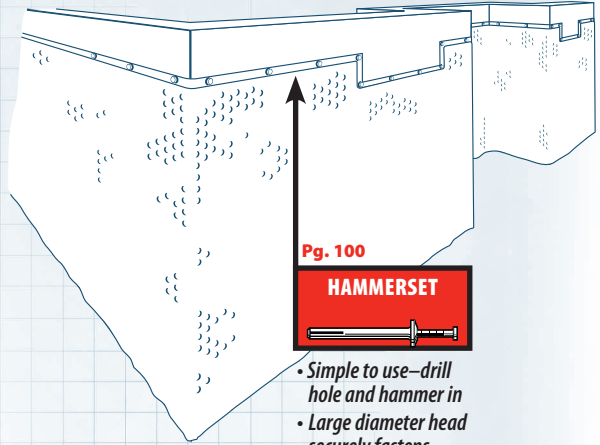
Pg. 30

A7/S7 ADHESIVE



- Corrosion resistant
- Normal weight or lightweight concrete
- Used in major stadiums across the country

Basement Wrap



Pg. 100

HAMMERSET



- Simple to use—drill hole and hammer in
- Large diameter head securely fastens basement wrap

Pg. 71

TRUBOLT +



- 2006 IBC, 2009 IBC, 2012 IBC, & 2015 IBC Compliant
- All seismic zone and cracked concrete approved
- Thru fixture fastening

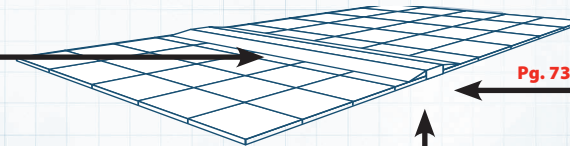
TRUBOLT WEDGE



- High load capacity
- Fast installation

Pg. 65

Expansion Joints



Pg. 47

C6+/G5 ADHESIVE



- High load capacity
- Suitable for use close to edge of slab

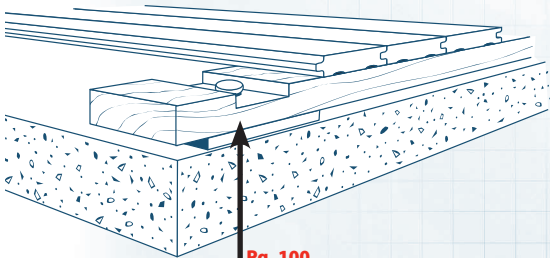
Pg. 73

LDT



- Finished head
- Removable
- Installs by hand or with impact wrench

Flooring Systems



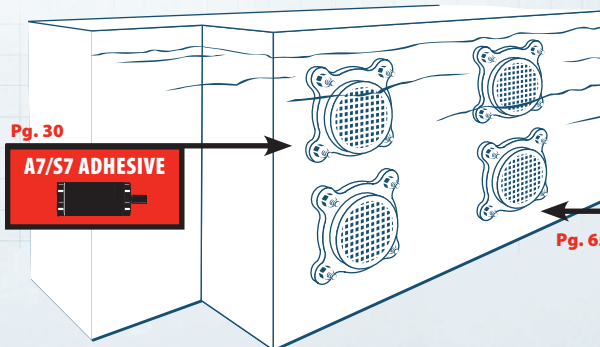
Pg. 100

HAMMERSET



- Simple to use—drill hole and hammer in

Underwater Installation



Pg. 30

A7/S7 ADHESIVE



Pg. 65

TRUBOLT +



Pg. 71

TRUBOLT WEDGE



- Vibration resistant
- Corrosion resistant
- Available in 316 stainless steel

For seismic recognition, see ICC-ES evaluation reports.

For installation guidelines for your application, please contact our Technical Services Department at 1-800-848-5611.

