Inventory List

Parts Supplied

- Posts (Floor-mount & wall-mount available)
- Impact Buffers (5.5” and 10” available)
- Track Flex Guard (.75” x 12” x 10’)
- Pitlane Flex Guard (.5” x 4.75” x 8’)
- Hardware to bolt Impact Buffers to Posts
- Hardware to bolt Flex Guard to Impact Buffers
- Hand Dispenser for Acrylic Anchor
- Mixing Nozzles
- Acrylic Anchor (Sold in 28 oz tubes)
- ½” x 5” Threaded Rod (Available in different lengths if needed)
- ½” – 13 Nuts
- ½” Flat Washers

Tools Needed

- Electric Drill
- Concrete Drill
- 9/16 Concrete Drill Bit
- 5/16 Drill Bit with Countersink
- Socket Set
- Allen Wrench Set
- Skill Saw
- C-Clamps
**Stage 1 Draw Track**
Using a marker, draw the track onto the surface. Do this accurately as the barrier system will follow these lines exactly.

**Stage 2 Place Sample Posts**
Place posts with the front of the impact buffer lining up with the edge of the track marked out. Space the posts 30” apart center to center. In high impact areas, reduce the spacing to disperse the load over a few posts. When placing posts bear in mind the 10 ft flex guard joint sections need to be between posts.

**Stage 3 Sort Hardware and Impact Buffers**
Lay out the needed hardware to assemble the impact buffers to the posts.
- Qty. 2 – 5/16-18 X 2” bolt for each d-rubber
- Qty. 2 – 5/16-18 nylock nuts
- Qty. 2 – 5/16 flat washer
- Qty. 1 – 2 hole track plate
(Qty. per impact buffer)

**Stage 4 Mark Post Holes**
Using a marker, mark the floor through the holes of the post.

**Stage 5 Check Hole Pattern**
Remove post and reveal holes to be drilled.
Stage 6 Drill Holes
Using the holes you just marked, use a 9/16” drill bit and drill the holes into the concrete. If desired a steel drill jig can be purchased to help, but it is not necessary.

Stage 7 Clean Holes
Using compressed air and/or a Shop Vac, clean out the holes. Be sure to wear safety goggles any time you use compressed air.

Stage 8 Fill Hole with Glue
Using dispenser PN OSTE020, pump epoxy into each hole according to package directions.

Stage 9 Place Post and threaded rods
Place post in place and insert the rods into the glue. Be sure to leave enough threads sticking up for the post, washer, and nut to go on top. Leave until set per epoxy instructions.

Stage 10 Bolt Post
Once the epoxy is set and dry, put a ½”washer and ½-13 nut on each rod, and tighten lightly. There is no need to use excessive force, as it could upset the anchor. Simply snug each nut sufficiently, and you can go back and tighten it further after the epoxy has completely set.
Stage 11  Layout Flex Guard Hardware
Layout the hardware to bolt flex guard to post.
- Qty. 1 – 5/16-18 X 2.5 FHCS
- Qty. 1 – 5/16-18 nylock nut
- Qty. 1 – 5/16 flat washer
  (Qty. per impact buffer)

Stage 12  Drill Flex Guard
Use a measuring tape to measure the height of each hole on the impact buffers, and mark them on the flex guard. Using a 5/16 drill with countersink drill through the flex guard and countersink deep enough so that the head of the bolts will be below the surface. The barrier can lay on the floor, or you can shim it to sit slightly above.

Stage 13  Bolt Flex Guard to Post
Bolt the flex guard to the impact buffers.

Stage 14  Layout Joint Piece
Layout the joint piece (to be used as a jig) and the hardware to bolt in place.

Stage 15  Clamp Joint Piece
Using the joint piece to join the two sides, Place 2 clamps in place holding the flex guard to the joint piece.
**Stage 16 Drill for Joint Piece**
Drill through the joint piece with a 5/16 drill
From the rear using the piece as a drill jig.

**Stage 17 Countersink the front**
Drill through the front of the holes just drilled with a 5/16 drill and countersink. Drill deep enough so that the flat head screws do not protrude.

**Stage 18 Bolt Joint Piece**
Using the nuts and bolts provided bolt the joint piece to the flex guard.
Qty. 6 – 5/16-18 X 1.5 FHCS
Qty. 6 – 5/16-18 nylock nuts
Qty. 6 – 5/16 flat washers

Continue this process until all barriers are bolted securely in place. Note that you may have to cut some barriers to fit certain layouts. You can cut the flex guard using a table saw or circular saw just like you would with plywood. For very tight bends you can heat the plastic slowly by letting it sit in direct sunlight, or you can carefully heat the plastic using a torch while applying pressure in the direction you wish to bend it. Please use extra care when using this method, as it is very dangerous, and excessive heat will damage the plastic. Overheated or damaged plastic is not returnable or repairable. Always wear protective gloves and eyewear when doing any assembly of, or maintenance to the Energy Absorption System.