ThrowForm® Systems (Patent Pending) Install Instructions

TFDCTF099 – Discus ThrowForm® System
TFSPTF084 – Shotput/Hammer ThrowForm® System
TFDDHCTF – Hammer/Discus Dual ThrowForm®

Installation

Determine the location desired for the event center point and establish the center line of the desired/required landing zone thereby establishing the sector limits and throwing direction for the event. Keep in mind that the top elevation of the recessed throwing circle is to be level with the landing zone. Also, allow for the construction of any cage or safety netting that maybe required or anticipated.

Assuming the event location and center line have been determined and the overall site area meets the elevation requirements (perform earthwork as necessary) set forth by the NCAA and/or NFHS as well as described by the American Sports Builders Association (ASBA) Guidelines proceed as follows:

1. Excavate a level area approximately 11’-0” x 11’-0” x 12” deep (comply with local building codes for appropriate depth) for models TFDCTF099 and TFSPTF084. 11’-0” x 20’-0” x 12” deep for model TFDDHCTF.
2. Install a 5 1/2”-6” layer of granular material (NYSDOT item #4, crushed gravel or crushed stone) for a base. Compact material to 95% or as appropriate to eliminate movement and settlement. Check compacted base for field grade elevation (minus 6”) and approximate levelness. Trim off high spots and fill in low areas as necessary.
3. Lay out the two halves (TFDDCTF099, TFSPTF084) or four halves (TFDDHCTF) of the aluminum form circles on the established base installing #4 straight horizontal reinforcing bar (holes are provided in the ThrowForm®) and bolt the halves together. Check for alignment of the aluminum angle circle halves that make up the throwing circle as well as the aluminum perimeter form. Adjust as necessary and tighten all fasteners.

4. Mark the aluminum form at the center points front and rear (checking center circle) and align on the previously established event center line (longitudinally) and similarly mark the aluminum form at the center point left and right. Move the form forward or back along the event center line until the circle center is at the desired center point location.
5. Upon locating the form center line and thereby form circle on/at the established event center line/center line point, set the aluminum form top to finish grade elevation with shims under the 6" high form as necessary. Check all corners and center points for levelness and stake the perimeter of the aluminum form (interior corners) to prevent lateral movement (if necessary, corner rebar may be sufficient). Backfill the form as necessary to hold the aluminum frame during the concrete pour. After all backfilling and staking, double check for alignment as well as levelness to ensure nothing has moved.
6. Once the form has been checked for proper alignment and elevation, the concrete can be poured. 3000psi (minimum), recommended 4000psi with 4-6% air entrainment for colder climates. Consult your local building codes for your area of the country.
7. Fill the exterior portion of the form flush with the top of the forms and inside the circle ¾" below the top of the aluminum circle ring. Screed each section level, adding or removing concrete as necessary. It is recommended that you create a slight crown in the center of the circle (+/- 1/8") to ensure that water will run towards the circle's perimeter and thereby to the drainage tubes provided around that inside perimeter.
8. Trowel the concrete smooth and lightly broom finish to prevent unwanted slippage. The inside circle should be somewhat lighter (less rough) than the exterior portion. Error on the side of roughness, the cured concrete can be lightly worked to make it smoother if desired. Consult with the owner/architect for the surface requirements or per specifications outlined in one or more of the following current publications: N.F.H.S., N.C.A.A. Track and Field Rules and Regulations and I.A.A.F.
9. Once the concrete has cured, remove the exterior stakes if utilized.

REPLACEMENT PARTS

Contact Sportsfield Specialties Customer Service at 1-888-975-3343 for replacement hardware.

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