General Contractors

Tormax iMotion ®
TN 110 In-Floor Swing Door Operator

Installation/Facilitation Guidelines

Offset Pivot Application
Left Hand Operator w/Flush Mounted Box

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DOOR FABRICATION DETAILS

NOTES:
(1) " ** " - INDICATES COMPONENT IS JOB SPECIFIC OR OPTIONAL

110 VAC
15 AMPS MIN
50-60 HZ

*PIVOT COVER*

*FUNCTION CONTROL PANEL*

*JB* *JB*

LEFT-HAND OFFSET PIVOT

TORMAX USA Inc.
ELECTRICAL DETAILS

NOTES:
(1) "* *" - INDICATES COMPONENT IS JOB SPECIFIC OR OPTIONAL

110 VAC
15 AMPS MIN
50-60 HZ

CONTROL BOX

"FUNCTION CONTROL PANEL"

OPERATOR

"PIVOT COVER"

DOOR

JAMB

FLUSH MOUNT (TERRAZZO) COVER

BOX

LEFT-HAND OFFSET PIVOT

PIT

TORMAX USA Inc.
ELECTRICAL DETAILS

NOTES:
(1) ** * INDICATES JOB SPECIFIC. CONSULT GC FOR FURTHER DETAILS.
(2) REF NEXT PAGE (ELECTRICAL DETAILS, SHT 3) FOR WIRING DETAILS.
(3) REF TN110 OPERATION MANUAL (P/N: US801461) FOR ADDITIONAL INFORMATION.
(4) INSTALLATION AND WIRING PRACTICES MUST COMPLY WITH LOCAL CODES.

KEY

- ACCESSIBLE HOLE FOR WIRING
- NOT ACCESSIBLE

110V AC (IN)
10 AMPS

LINBUS CABLE 75'-0"
SUPPLIED BY TORMAX

"FUNCTION CONTROL PANEL"

TN110 CONTROL BOX

24V DC
TO ACT. SWITCHES

"JB"

Ø MAX. 1-5/16"

Ø MIN. 15/16"

ENCODER CABLE

MOTOR CABLE

TO TN110 OPERATOR

TORMAX USA Inc.
iMotion® TN 110 IN-FLOOR SWING DOOR OPERATOR
WITH FLUSH MOUNTED FLOOR BOX
LEFT-HAND OPERATOR WITH OFFSET PIVOT APPLICATION

ELECTRICAL DETAILS

CHECK CORRECT POSITION OF VOLTAGE SELECTOR

DO NOT GROUND SHIELD OF ENCODER CABLE AT THE OPERATOR

GROUNDING BRACKETS

ENCODER AND MOTOR GROUNDING BRACKETS

ENCODER AND MOTOR CABLE Ø 5/16”
CABLE Ø 11/32”
CABLE Ø 15/32”
CABLE Ø 5/16”

(SEE CABLE PLAN FOR CONDUIT SPECIFICATIONS)

MOTOR CABLE IN SCREW CONNECTION

LENGTH = 82’ MAX

P/N: US801378
20 AWG, SHIELDED,
6 CONDUCTOR, STRANDED WIRE

P/N: US801379
14 AWG, SHIELDED,
7 CONDUCTOR, STRANDED WIRE

MAX 82’

TORMAX USA Inc.
PIT PREPARATION DETAILS

NOTES:
(1) " " - INDICATES COMPONENT IS JOB SPECIFIC OR OPTIONAL
PIT PREPARATION DETAILS

NOTES:
(1) ENSURE PROVISIONS FOR WEEP DRAIN AND ELECTRICAL WIRING HAVE BEEN MADE PRIOR TO FILLING THE PIT WITH MORTAR.
(2) WEEP DRAIN MUST BE INSTALLED OR MANUFACTURER’S WARRANTY WILL BE VOID.
(3) WEEP DRAIN HARDWARE TO BE PROVIDED BY GC. WEEP DRAIN INSTALLATION & LOCATION OF TERMINATION MUST COMPLY WITH CITY AND/OR STATE CODES.
* DIMENSION AS REFERENCED TO EDGE OF BOX WITHOUT TERAZZO COVER
** JOB SPECIFIC DIMENSION

BOX / OPERATOR LOCATION TOLERANCES

NOTE: TERAZZO PAN REMOVED FOR CLARITY (THIS VIEW ONLY)

KEY

FINISHED FLOOR
POSSIBLE WEEP DRAIN
OPERATOR SHAFT

PIT DIMENSIONS
19-3/4"L x 17-3/4"W x 6-7/8"D

INSTALL WEEP DRAIN IN EITHER HOLE
SECURE BOX TO FLOOR (HARDWARE BY OTHERS)
COVER ANY UNUSED HOLES PRIOR TO POURING MORTAR

NOTE: TERAZZO PAN REMOVED FOR CLARITY (THIS VIEW ONLY)

ALIGN TOP OF BOX EVEN WITH FINISHED FLOOR
COVER ANY UNUSED HOLES PRIOR TO POURING MORTAR

WEEP DRAIN MUST BE INSTALLED OR MANUFACTURER’S WARRANTY WILL BE VOID.