TROVE™ PLUS

Access & Power Integration

Altronix/ZK Teco Rack Wired Kits

Models Include:

T1RZ3CK1

4 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with TAL1R backplane
- One (1) eFlow6RLB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- Wire harnesses for one (1) Atlas 460 Module

T1RZ3CK1D

4 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with TAL1R backplane
- One (1) eFlow6RLB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- Wire harnesses for one (1) Atlas 460 Module

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

CE

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Rev. 101124

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove ZK Teco wired rack kits are pre-assembled and consist of Trove rack enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies. They also accommodate one (1) Atlas 460 Module for up to four doors in a single enclosure.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage [DC] 24VDC Output Range (V)	Nominal DC Output Voltage [Aux] 24VDC Output Range (V)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB) Access Power Controller's outputs (A)	Current Per ACMS8(CB) Output (A)	ACMS8(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	Fail-Safe/ Fail-Secure or Dry Form "C" Outputs
T1RZ3CK1	3.5	5A/ 250V	10A/ 32V	20.28-26.4	20.28-26.4	24VDC @ 5.6A	2.5	10A/250V	3A/32V	4
T1RZ3CK1D							2.0	9A	2.5A	4

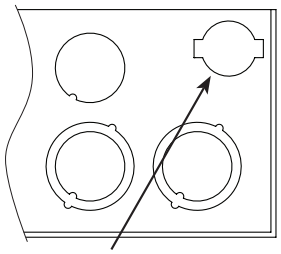
Installation Instructions for T1RZ3CK1(D):

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. These products are for indoor use only and must be installed within the protected premises.

Note: First assemble and Install Z Bracket Wire Management Accesory *(refer to Z Bracket Installation pg. 3)*

1. Remove backplane from enclosure prior to installing into rack cabinet (do not discard hardware).
2. In order to mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) turn the enclosure upside down. Punch out the knockout in designated location, on the back of the unit, from outside of the drawer *(Fig. 1, pg. 2)*. Insert the tamper switch into the knockout from outside of the drawer with the button facing outwards and spaded connectors inside the drawer. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the rack drawer.
3. Slide the rack enclosure into an open 2U location in the four post rack cabinet.
4. Utilizing proper fasteners attach front ears to the rack rails.
5. Attach the rear of the adjustable slides to the rear rails of the rack cabinet with the proper fasteners.
6. Secure the rack cover *(Fig. 2a, pg. 2)* and rack drawer to earth ground *(Fig. 2b, pg. 2).*

Fig. 1
Back of the drawer, viewed from outside.



Tamper Switch mounting location

Fig. 2

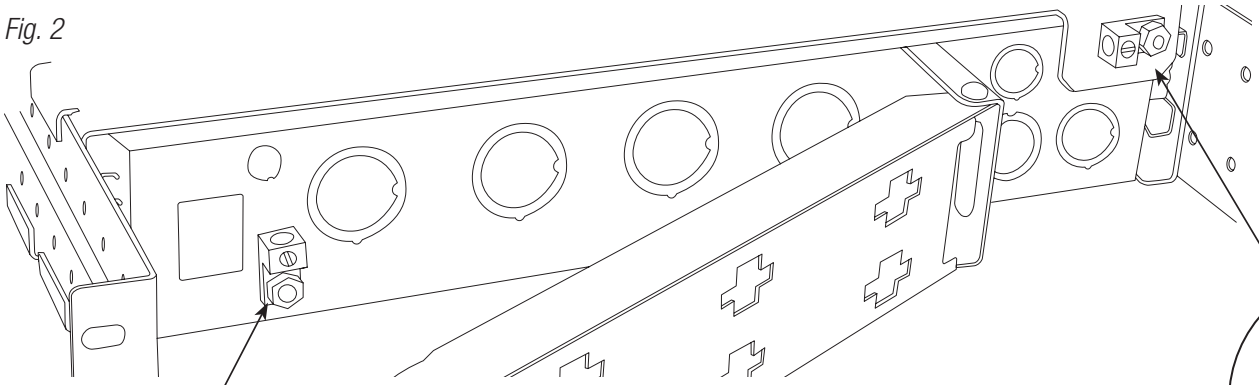


Fig. 2a

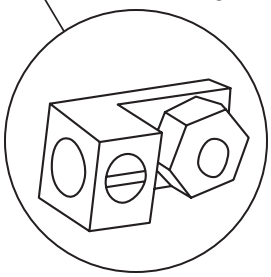
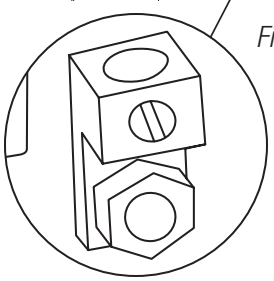


Fig. 2b



7. Make sure that all internal cofigurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
8. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and corresponding sub-assembly Installation Guides for ACMS8(CB) and VR6 for further instructions.

Assembling and Attaching Z Bracket Wire Management Accessory (included)**:**

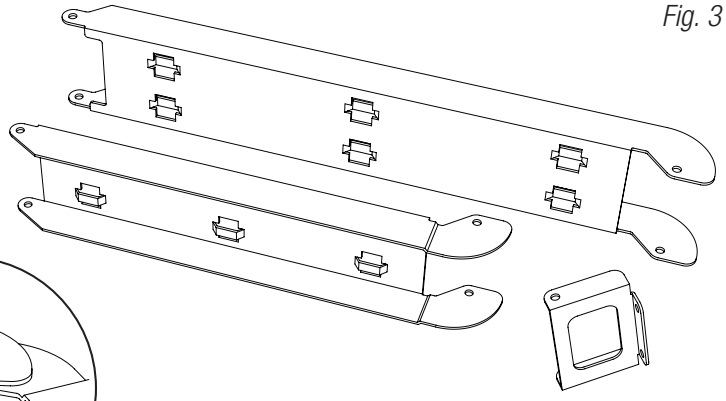
Altronix Trove Rack enclosures include Z Bracket, a convenient and reliable wire management accessory.

Hardware (included)**:**

Ten (10) bolts and eight (8) lock nuts.

1. Carefully unpack Z Bracket. Do not discard hardware (included) *(Fig. 3, pg. 3)*.
2. Attach arms to each other using bolts and lock nuts *(Fig. 3a, pg. 3)*.
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on *(Fig. 3b, pg. 3)*.
4. Make sure that all nuts are tightened.

Fig. 3



Two (2)

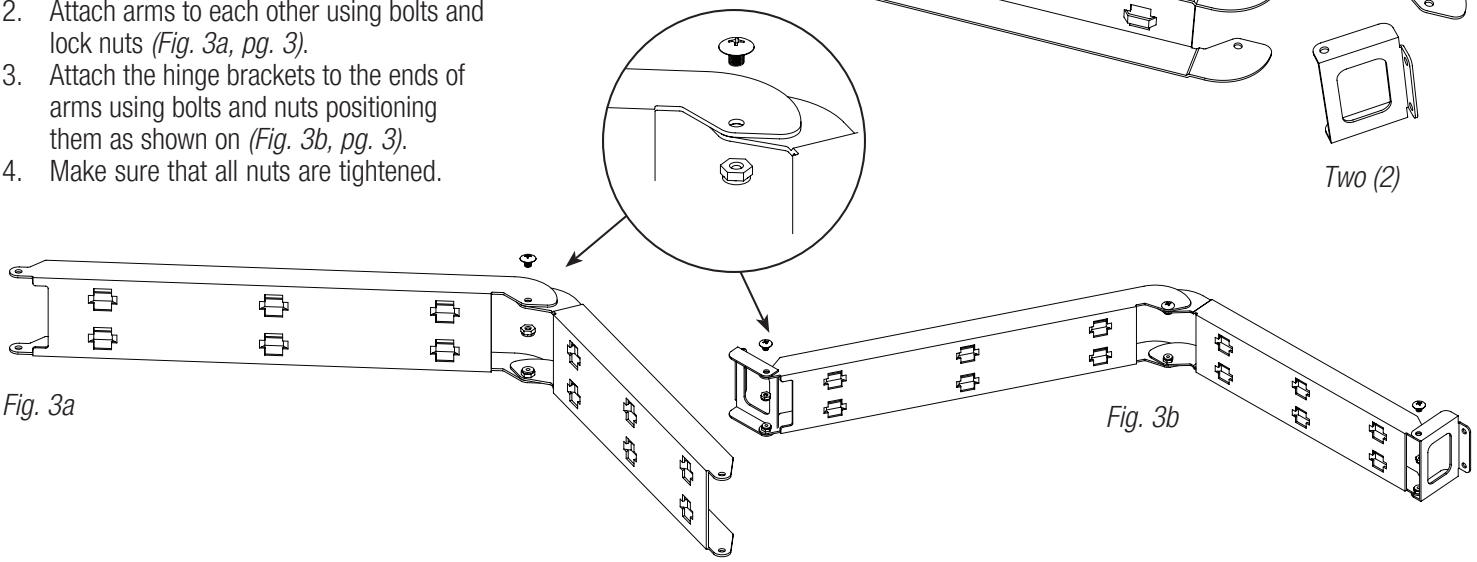


Fig. 3a

Fig. 3b

5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable slide using bolts and lock nuts (included) *(Fig. 4, 4a, pg. 3)*.
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).

Fig. 4

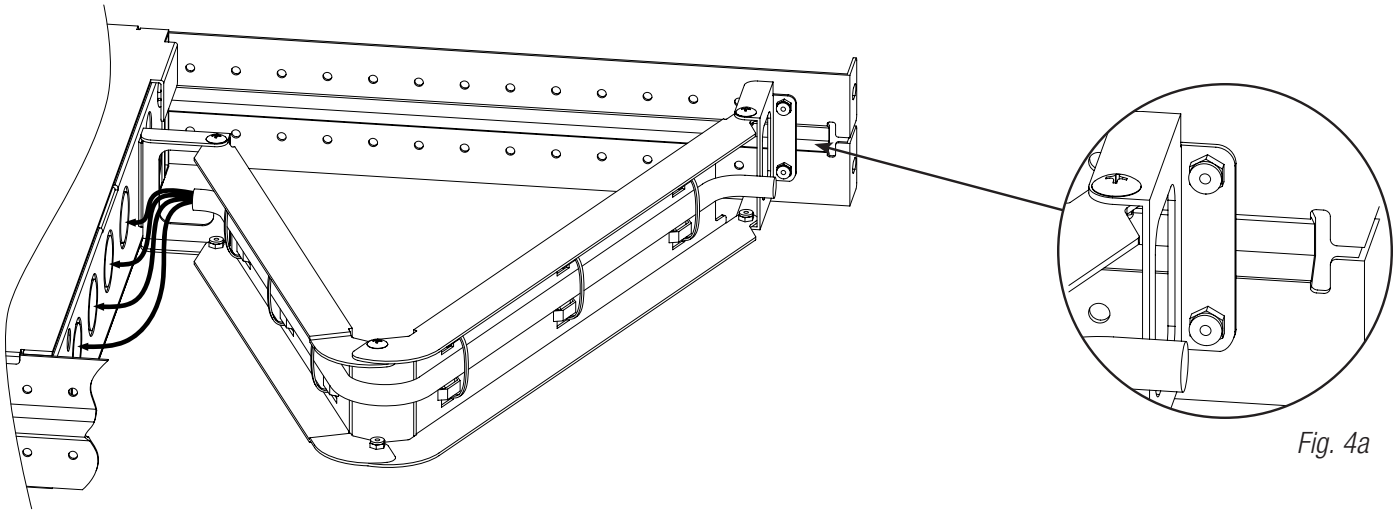
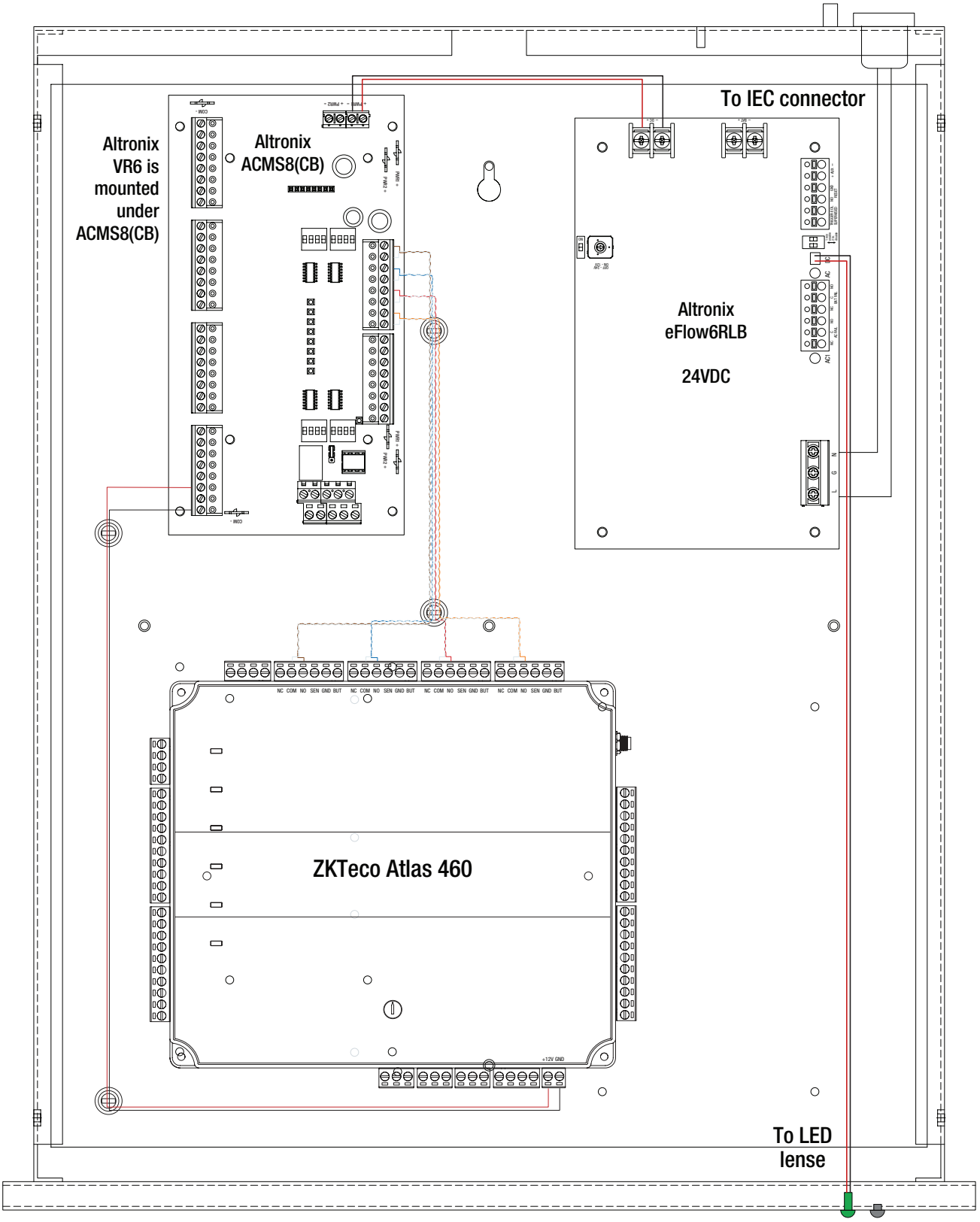


Fig. 4a

T1RZ3CK1(D): Configuration of ZK Teco Atlas 460 Module:

1. Fasten DIN Rail (provided by ZKTeco) to pem spacers, utilizing 5/16” pan head screws (included) *(Fig. 5, pg. 4)*.
2. Mount Atlas 460 Module to DIN Rail *(Fig. 5, pg. 4)*.
3. Fasten TAL1R backplane to Trove1R enclosure utilizing hardware.

Fig. 5



Notes:

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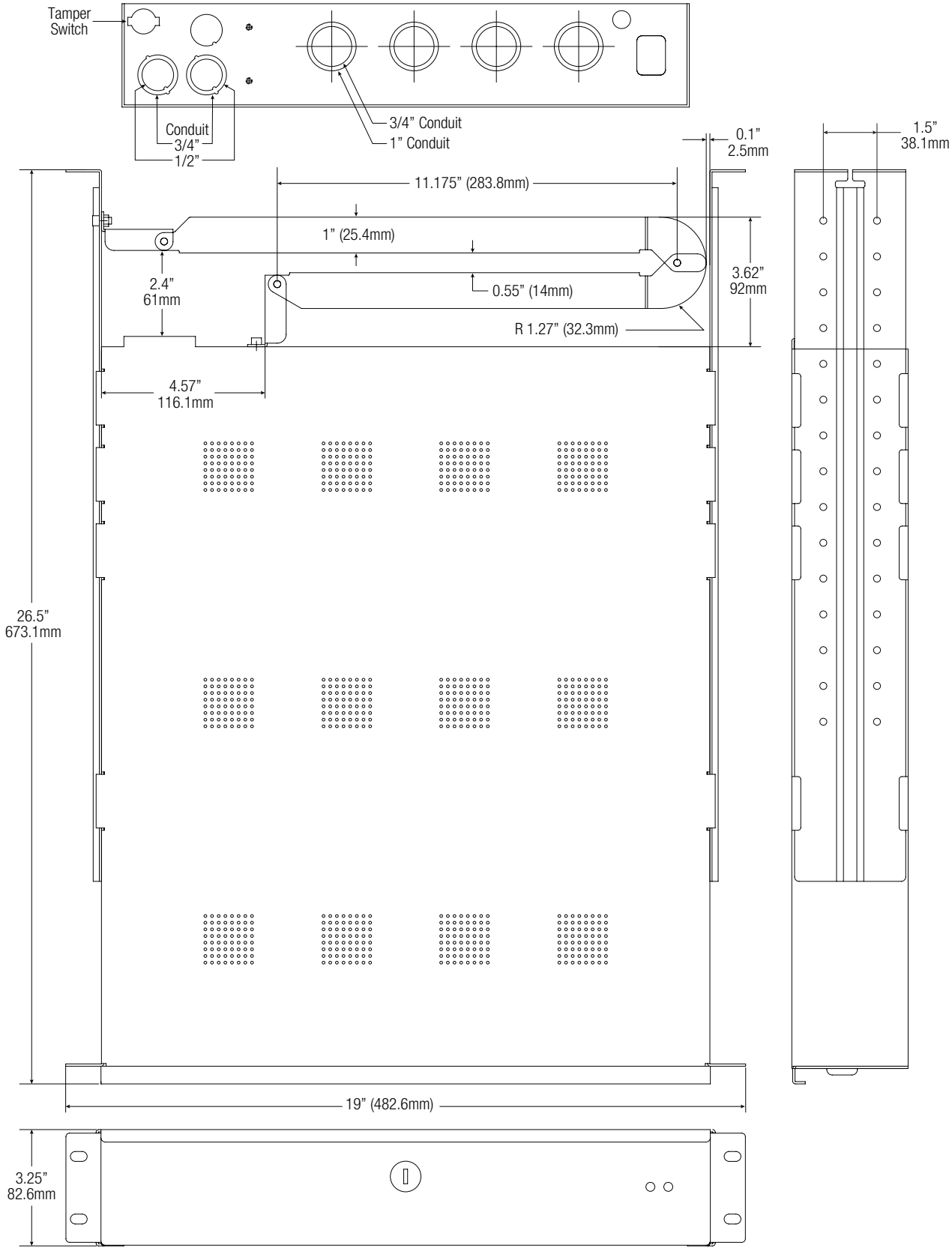
Trove1R Enclosure Dimensions (H x W x D approximate)**:**

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm). Shown with Z Bracket attached



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