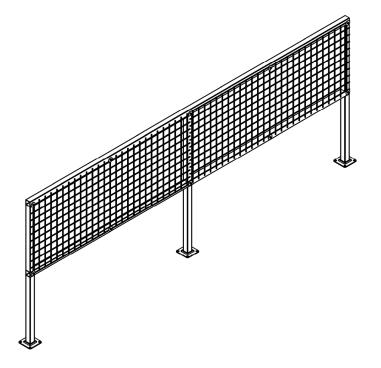


VESTIL MANUFACTURING CORP.

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SQ-SERIES SQUARE HANDRAIL INSTALLATION MANUAL



Receiving instructions:

After delivery, IMMEDIATELY remove the packaging from the product in a manner that preserves the packaging and maintains the orientation of the product in the packaging; then inspect the product closely to determine whether it sustained damage during transport. If damage is discovered during the inspection, <u>immediately</u> record a complete description of the damage on the bill of lading. If the product is undamaged, discard the packaging.

NOTES:

1) Compliance with laws, regulations, codes, and non-voluntary standards enforced in the location where the product is *used* is exclusively the responsibility of the owner/end-user.

2) VESTIL is **not liable** for any injury or property damage that occurs as a consequence of failing to apply either: a) the instructions in this manual; or b) information provided on labels affixed to the product. Neither is Vestil responsible for *any* consequential damages sustained as a result of failing to exercise sound judgment while assembling, installing, using or maintaining this product.

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SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage.

The signal words used appear below along with the meaning of each word:

	Identifies a hazardous situation which, if not avoided, <u>WILL</u> result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.
A WARNING	Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.
ACAUTION	Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.
NOTICE	Identifies practices likely to result in product/property damage, such as operation that might damage the product.

Each person who assembles, installs, uses, or maintains this product should read the entire manual and fully understand the directions in advance. If after reading the manual you do not understand an instruction, ask your supervisor or employer for clarification, because failure to adhere to the directions in this manual might result in serious personal injury.

Safe use recommendations:

Vestil diligently strives to identify foreseeable hazards associated with the use of its products. However, material handling is inherently dangerous and no manual can address every conceivable risk. The end-user ultimately is responsible for exercising sound judgment at all times.

A DANGER Electrocution might result if any part of the product contacts electrified wires. Reduce the likelihood of electrocution by applying common sense:

- > DO NOT contact electrified wires with any part of this device, your body, or clothing.
- > DO NOT use or store the product where contact with electrified wires is likely.
- Always inspect the usage area before using the product & implement precautions that account for conditions.

AWARNING If this product is used improperly or carelessly, the operator and/or bystanders might sustain serious personal injuries or even be killed. To reduce the likelihood of injury:

• Failure to read and understand the entire manual before assembling, installing, using or servicing the product is a misuse of the product. Read the manual to refresh your understanding of proper use and maintenance procedures.

• DO NOT attempt to resolve any problem(s) with the product unless you are both authorized to do so and certain that it will be safe to use afterwards.

•DO NOT modify the product in any way UNLESS you first obtain written approval from Vestil. Unauthorized modifications automatically void the Limited Warranty and might make the product unsafe to use.

• DO NOT partially assemble or install this product. Complete the assembly and installation procedures diagrammed and explained in this manual BEFORE opening for use the area where the railing system is installed.

• DO NOT exceed the maximum rated load (see Label 287 on product).

• Inspect the product periodically and assess the fitness of the railing system. DO NOT use this product if the inspection reveals structural damage. Examples of structural damage include, but are not limited to, the following: 1) Cracked, broken or significantly deformed posts or cross-members; 2) cracked welds; 3) corrosion, severe wear, or other condition that affects the ability of the product to support weight; or 4) loose anchorages (to the ground). Replace each part that fails to pass an inspection and tighten all loose fasteners including anchor bolts, and DO NOT use the product until it is fully restored to normal condition.

• DO NOT use this device UNLESS all product labels (see "Label Placement Diagram") are readable and undamaged.

NOTICE Proper use, maintenance, and storage are essential for this product to function properly.

• Always use this product in accordance with the instructions in this manual.

 The powder coating prevents the handrail system from rusting. Seal areas where the powder coating is damaged (e.g. chipped or scratched).

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FIG. 1: SQ-108-W/WM-108 Exploded Parts Diagram and Bill of Materials

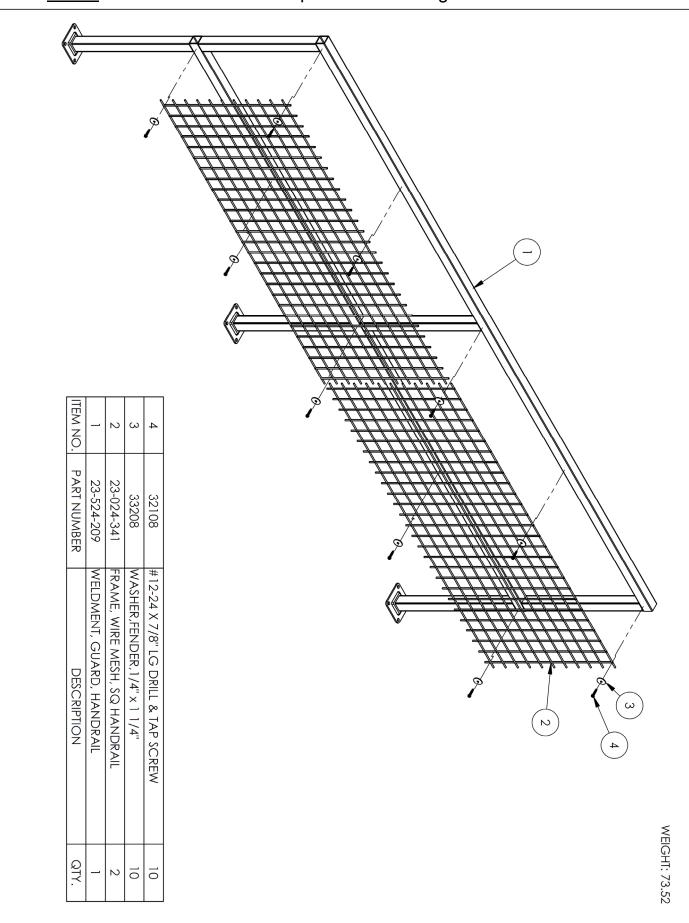


FIG. 2: SQ-120-W/WM-120 Exploded Parts Diagram and Bill of Materials

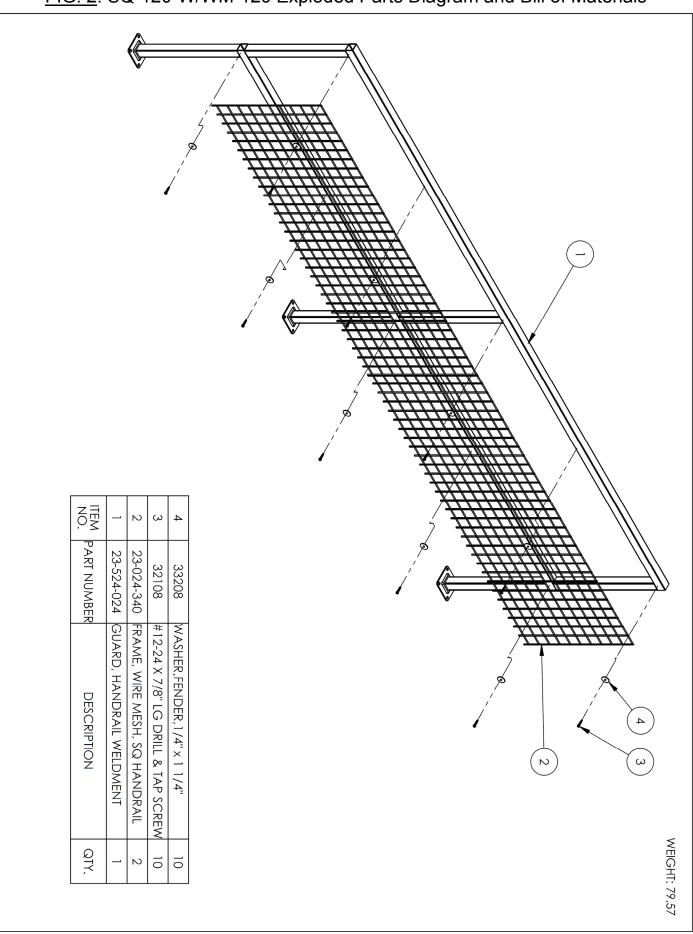


FIG. 3: SQ-48-W/WM-48 Exploded Parts Diagram and Bill of Materials

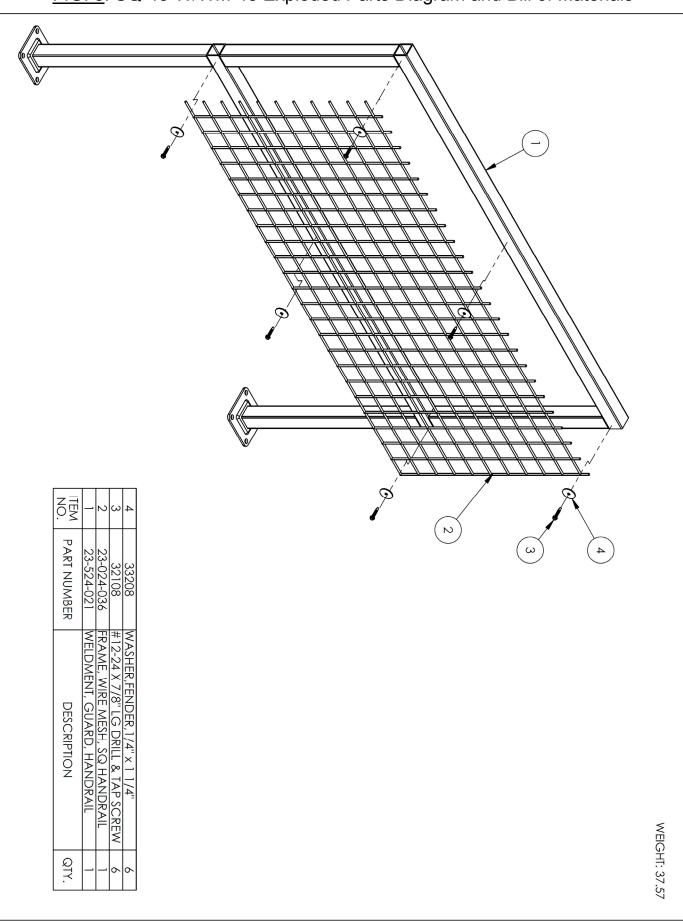


FIG. 4: SQ-60-W/WM-60 Exploded Parts Diagram and Bill of Materials

ITEM NO.	Νω	4	
23-524-214 PART NUMBER	33208 23-024-340	32108	
WELDMENT, GUARD, HANDRAIL DESCRIPTION	FRAME, WIRE MESH, SQ HANDRAIL	#12-24 X 7/8" LG DRILL & TAP SCREW	WEIGHT: 43.46
QTY.	- 6	6	43.46

FIG. 5: SQ-72-W/WM-72 Exploded Parts Diagram and Bill of Materials

7					
NO.		2	ω	4	
PART NUMBER	23-524-022	23-024-037	33208	32108	
DESCRIPTION	WELDMENT, GUARD, HANDRAIL	FRAME, WIRE MESH, SQ HANDRAIL	WASHER, FENDER, 1/4" x 1 1/4"	#12-24 X 7/8" LG DRILL & TAP SCREW	
QTY.			6	6	WEIGHT: 49.08

FIG. 6: SQ-96-W/WM-96 Exploded Parts Diagram and Bill of Materials

2 1 23-024-038 ITEM NO. PART NUMBER	3 4 3 33208
FRAME, WIRE MESH, SQ HANDRAIL WELDMENT, GUARD, HANDRAIL DESCRIPTION	#12:24 X 7/8"LG DRILL & TAP SCREW WASHER, FENDER, 1/4" x 1 1/4"
QTY.	WEIGHT: 60.76

FIG. 7: SQ-48-TB Exploded Parts Diagram and Bill of Materials

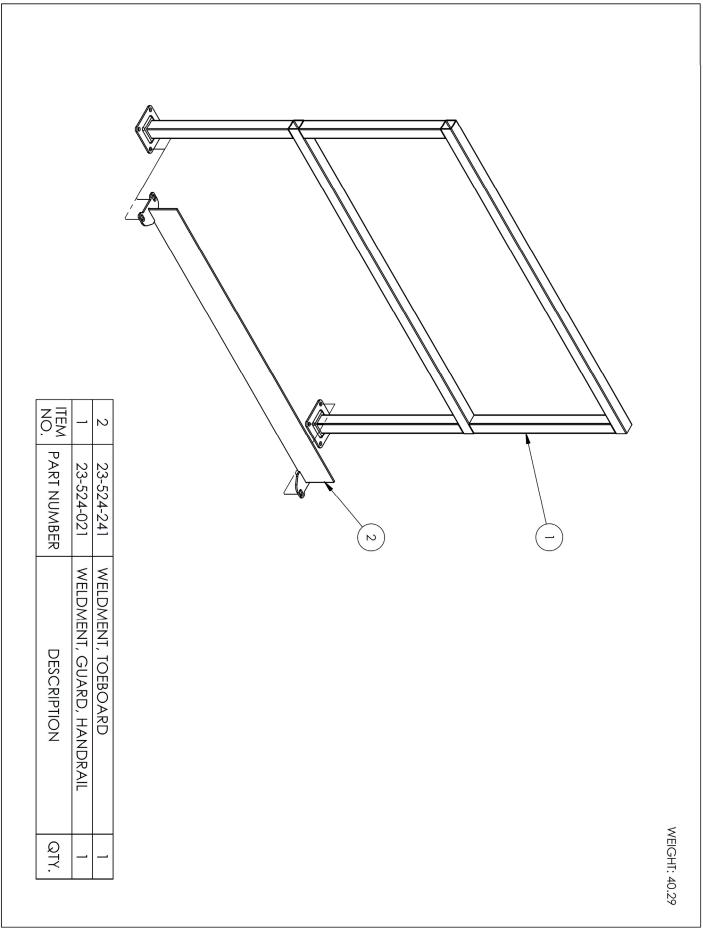


FIG. 8: SQ-72-TB Exploded Parts Diagram and Bill of Materials

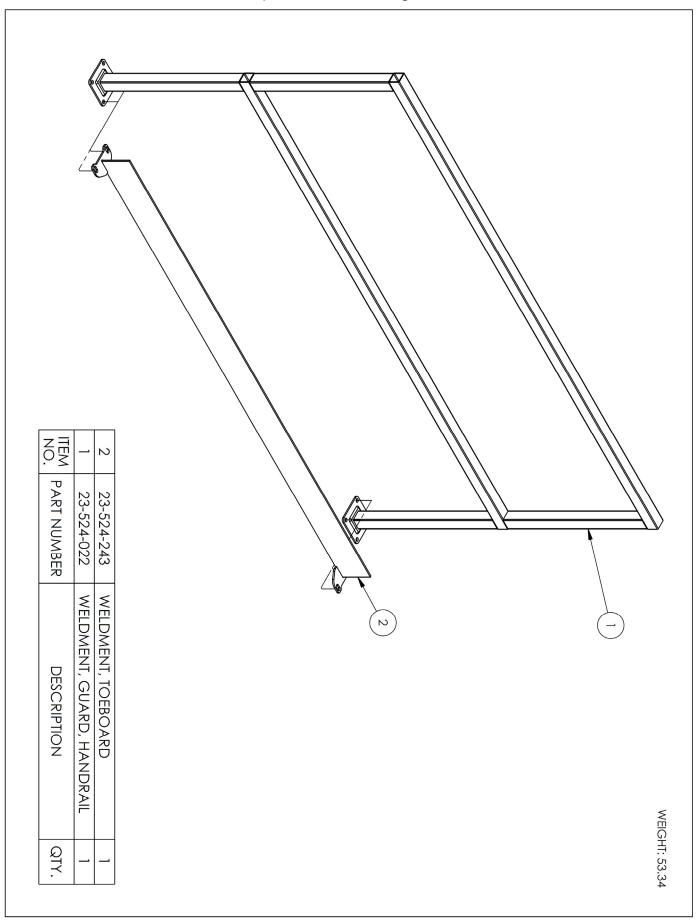


FIG. 9: SQ-96-TB Exploded Parts Diagram and Bill of Materials

2 23-524-245 1 23-524-023 ITEM NO. PART NUMBER	
WELDMENT, TOEBOARD WELDMENT, GUARD, HANDRAIL DESCRIPTION	WEIC
QTY.	WEIGHT: 66.39

FIG. 10: SQ-108-TB Exploded Parts Diagram and Bill of Materials

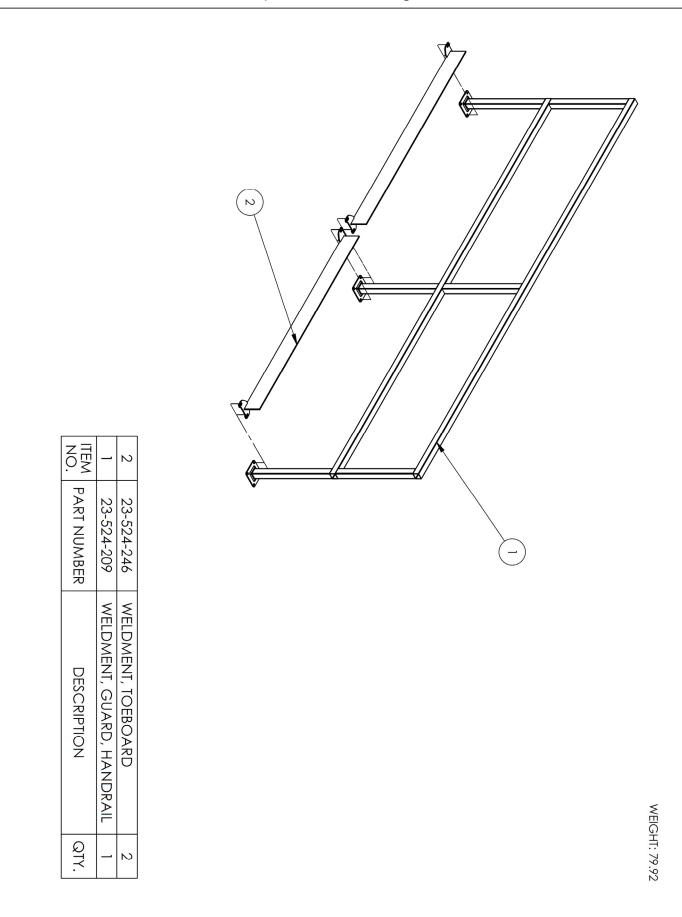
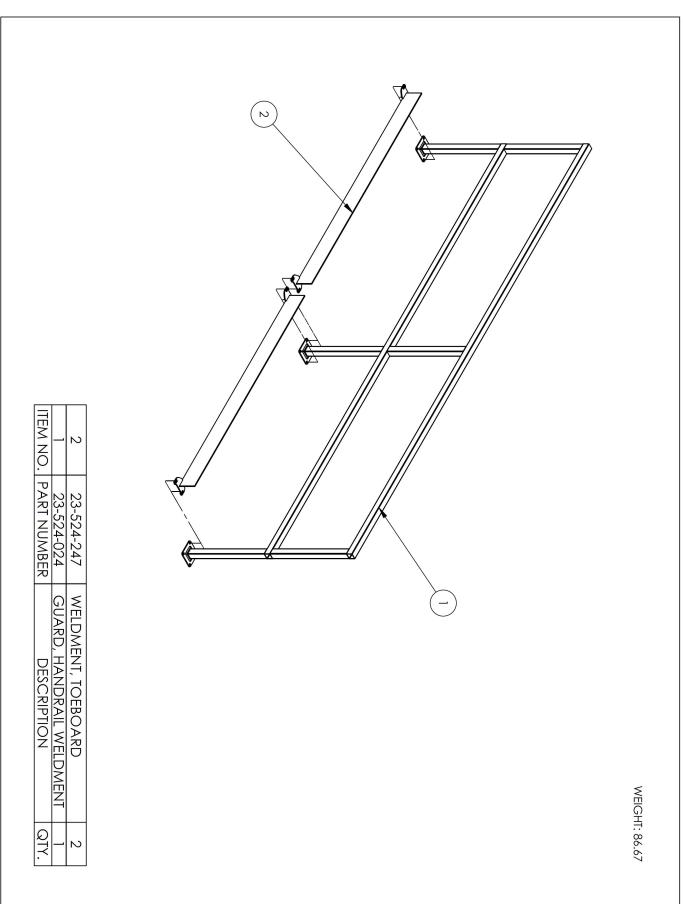


FIG. 11: SQ-120-TB Exploded Parts Diagram and Bill of Materials





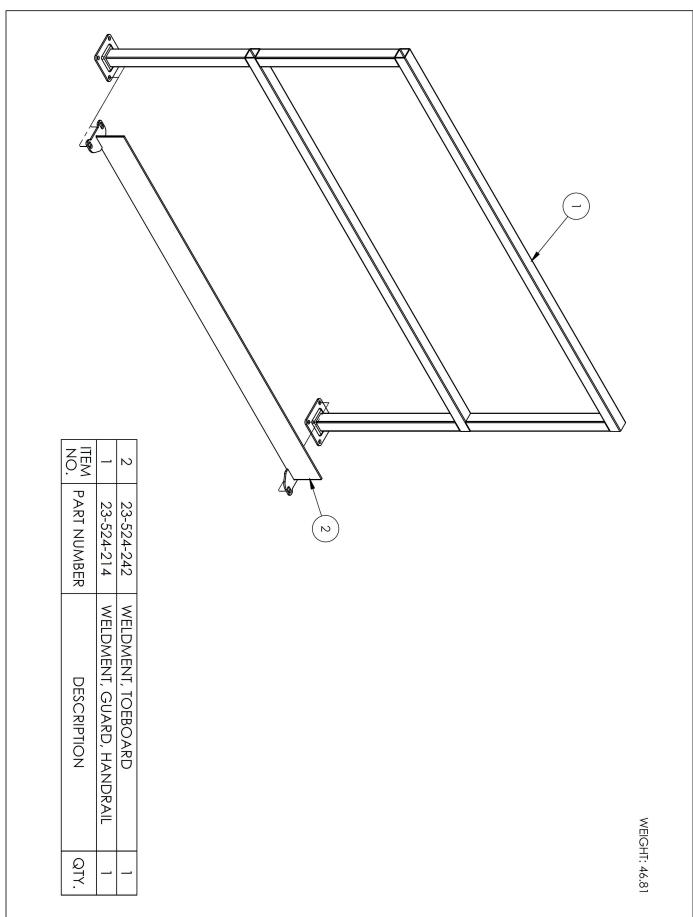
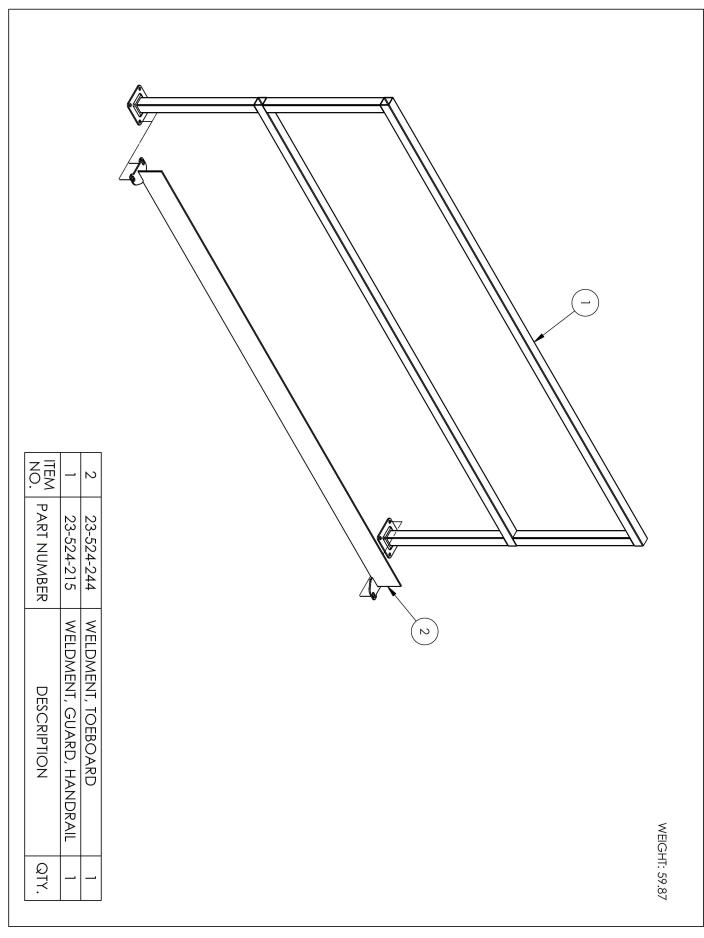
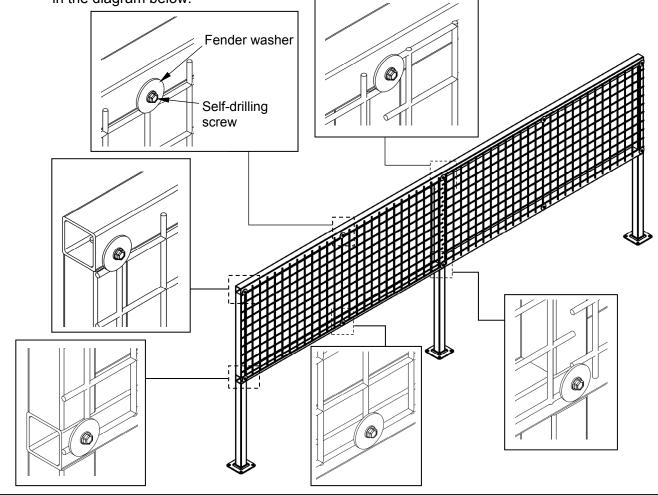


FIG. 13: SQ-84-TB Exploded Parts Diagram and Bill of Materials

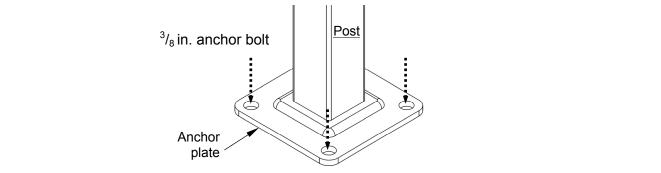


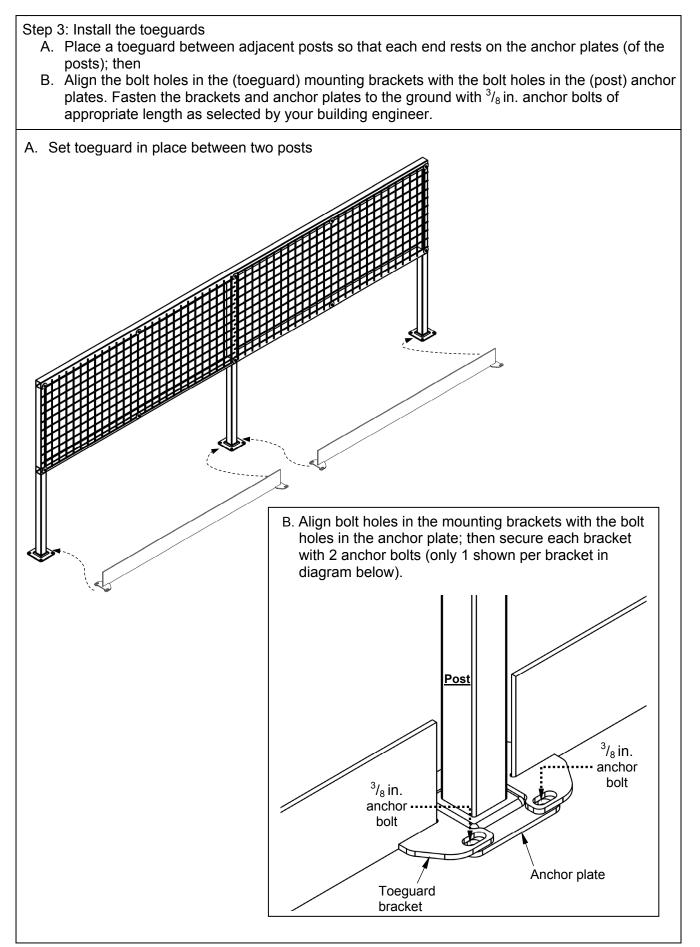
Installation & Assembly

- 1. Determine the layout of the handrail segments and note which side will face outwards. Fasten the mesh fencing to the <u>outside</u> of the segments.
 - a) Position the mesh pieces appropriately to cover the open areas midrail of each handrail segment. Use clamps to temporarily hold the mesh in position.
 - b) The product is shipped with #12 x $1^{1}/_{4}$ " long self-drilling screws. Fine tune the position of the mesh, if necessary, to allow screws to be driven into the top rail and midrail at the upper, outer corners of squares in the mesh as shown below. Put a $1/_{4}$ " x $1^{1}/_{4}$ " fender washer on each screw <u>before</u> driving it into the railing. Each washer should overlap the mesh as shown in the diagram below.



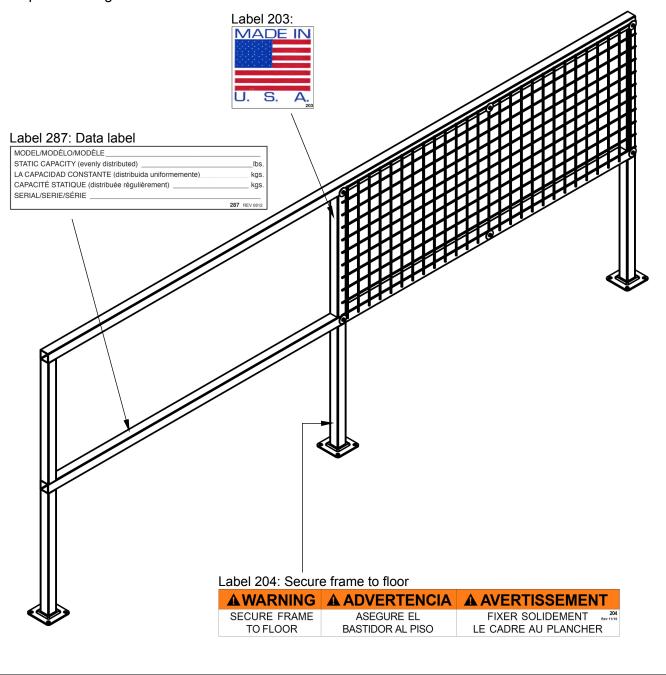
2. Fasten the machine to the floor with anchor bolts. At the base of each post is an anchor plate and there are 4 anchor bolt holes in each anchor plate. Your building engineer should evaluate the installation site and select ³/₈ in. anchor bolts of a length appropriate for the location. If your handrail system includes toeguards, complete step 3 on the next page before bolting the handrail segments to the ground.





Labeling Diagram

SQ-series handrails are labeled as shown below. Labels must remain undamaged and readable. Replace damaged labels.



LIMITED WARRANTY

Vestil Manufacturing Corporation ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. *Our warranty obligation is to provide a replacement for a defective original part if the part is covered by the warranty, after we receive a proper request from the warrantee (you) for warranty service.*

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

What is an "original part"?

An original part is a part <u>used to make the product as shipped</u> to the warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the <u>Customer Invoice</u> that displays the shipping date; AND 2) a <u>written request</u> for warranty service including your name and phone number. Send requests by any of the following methods:

<u>Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation	(260) 665-1339	sales@vestil.com
2999 North Wayne Street, PO Box 507	Phone	
Angola, IN 46703	(260) 665-7586	

In the written request, list the parts believed to be defective and include the address where replacements should be delivered.

What is covered under the warranty?

After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil may require you to send the entire product, or just the defective part or parts, to its facility in Angola, IN. The warranty covers defects in the following *original* dynamic components: motors, hydraulic pumps, electronic controllers, switches and cylinders. It also covers defects in *original* parts that wear under normal usage conditions ("wearing parts"): bearings, hoses, wheels, seals, brushes, batteries, and the battery charger.

How long is the warranty period?

The warranty period for original dynamic components is <u>15 days</u>. For wearing parts, the warranty period is <u>15 days</u>. The warranty periods begin on the date when Vestil ships the product to the warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend the warranty periods for products shipped from authorized distributors by *up to* 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any *covered* part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

- 1. Labor;
- 2. Freight;
- 3. Occurrence of any of the following, which automatically voids the warranty:
 - Product misuse;
 - Negligent operation or repair;
 - Corrosion or use in corrosive environments;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Collisions or other incidental contacts causing damage to the product;

• <u>Unauthorized modifications</u>: DO NOT modify the product IN ANY WAY without first receiving written authorization from Vestil. Modification(s) might make the product unsafe to use or might cause excessive and/or abnormal wear.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty.

