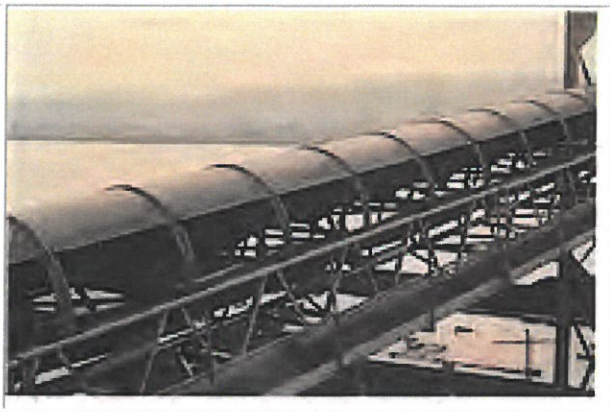
RPS ENGINEERING'S CONVEYOR COVERS

CH Series is a full smooth cover and is among our most economical full cover systems. These covers are fully covered and hinged with a retaining bar to allow the cover to be held in an open position.



CH-75 Series is a ¾ stationary smooth cover. These covers allow coverage of the belt and are open 45 degrees, standard, for viewing at a glance. Hinged ¾ covers are available as an option.

CHCO Series is a full corrugated cover. These covers are more rigid because of perpendicular corrugations. They are hinged for convenient viewing.

CHLC Series is a ¾ stationary corrugated cover. These corrugated covers are great for the overland conveyor. The corrugations run parallel with the conveyor.

CHCS Series is a ¾ stationary corrugated cover. These covers are more rigid because of perpendicular corrugations. ¾ hinged are available as an option.

CHFG Series is designed for corrosive applications such as salt or fertilizer. The cover is fiberglass reinforced plastic with stainless steel bands in full or ¾ coverage.

RPS Engineering INCORPORATED

R.P.S. Engineering, Inc. P.O. Box 5186 Elgin Illinois 60121-5186
(847) 931-1950 Office 1-800-931-1950 Outside Illinois 1-847-931-4274 Fax

CH Conveyor Cover Series (Smooth 180° Coverage)

RPS Engineering's CH-Series hood assembly is a full 180° coverage and are hinged so they can be quickly and easily opened for inspecting or viewing the items being conveyed. They also allow for ease of repairing, replacing, greasing or inspecting of the idlers. Conveyor hoods help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements.

Our standard CH Cover Assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60", 72", 84", & 96" belt widths. Custom sizes are also available. Standard covers are made from 22 gauge, G-90, galvanized steel with support bands made from 12 gauge, G-90, galvanized steel for belt widths up to 36" wide or 10 gauge, G-90, galvanized steel support bands for belt widths 42" wide and above.

The assemblies come with heavy duty galvanized steel mounting foot brackets and a retaining bar to hold the cover in an open position for maintenance issues. Standard hardware is zinc plated. These assemblies can be made to accommodate 3' through 5' idler spacing with 4'-0" being our standard. If required, RPS is able to cut covers shorter or taper covers for the special section(s) on your project. Optional cover and band material include Aluminum, Stainless Steel and our Fiberglass – CHFG series.

RPS Engineering, Inc. manufactures everything to order, therefore we are able to manufacture most custom dimensions that may be required for your specific project. If heavier gauges are required for our assemblies for loading requirements, RPS can meet those special requirements.

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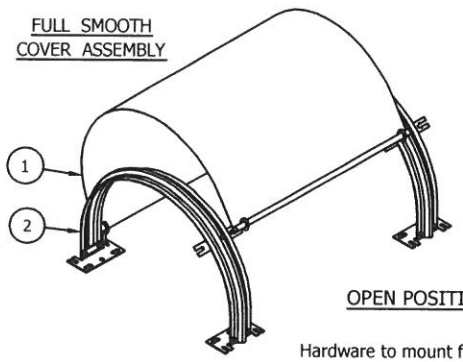
CH-SERIES FULL SMOOTH COVERS

(All Dimensions are standard. Other options for band spacing and cover sizes are available upon request)

Item	Part Number	Description	Per Cover	Per Band	Total Qty
1	CH__GC__	Cover, Full Smooth, Galvanized G90, standard 22 ga			0
2	CH__GB	Support Band, Galv G90, std 12ga for BW<42", 10ga ≥ BW42"			0
3	12-6EBS-ZN	Eye bolt set, 1/2"-13 x 6", w/2 flanged hex nuts & 1 lock washer	4		0
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		5	0
5	516FW-ZN	Washer, flat, 5/16"		9	0
6	516HN-ZN	Nut, hex, 5/16-18		5	0
7	516LW-ZN	Washer, lock, 5/16"		4	0
8	FB-G	Foot bracket/Base Bracket, 8 ga galvanized		2	0
9	RB-G	Retaining/Inspection bar, 7 ga galvanized		1	0

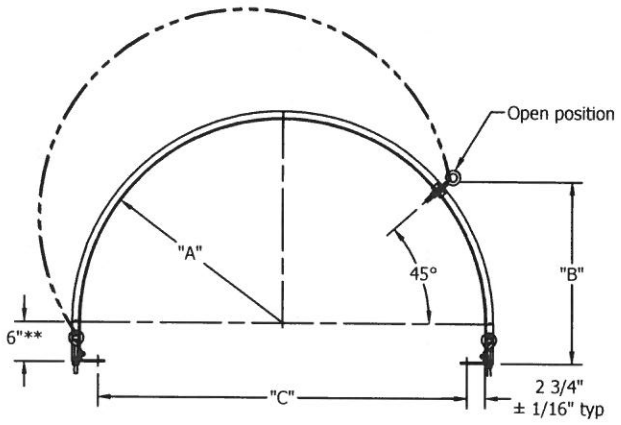
Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.

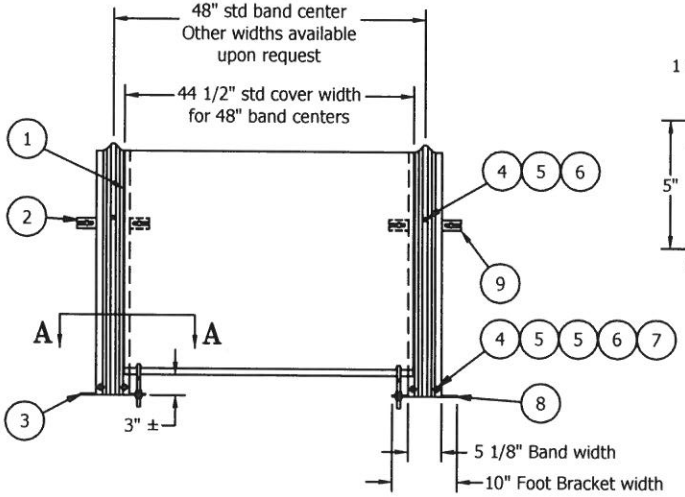
FULL SMOOTH COVER ASSEMBLY

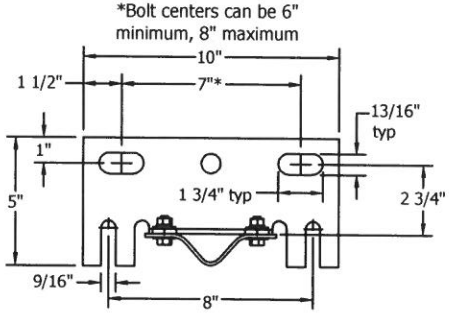


OPEN POSITION

Hardware to mount foot brackets to conveyor is normally provided by other, but is available as an option.







Section A–A

SPECIFICATIONS					
ASSEMBLY NO.	BELT WIDTH	"A"	"B"	"C"	WT in LB
CH18GA40	18"	16-1/4"	19-1/4"	27"	52
CH20GA40	20"	17-1/4"	20"	29"	54
CH24GA40	24"	19-1/4"	21-7/8"	33"	58
CH30GA40	30"	22-1/4"	24"	39"	65
CH36GA40	36	25-1/4"	26-1/8"	45"	71
CH42GA40	42"	28-1/4"	28-1/4"	51"	78
CH48GA40	48"	31-1/4"	30-3/8"	57"	84
CH54GA40	54"	34-1/4"	32-1/2"	63"	90
CH60GA40	60"	37-1/4"	34-5/8"	69"	97
CH72GA40	72"	43-1/4"	39"	81"	104
CH84GA40	84"	49-1/4"	43"	93"	118

** 6" is standard tangent, other available upon request.

Material:
Standard covers are 22 ga G90 galvanized steel. Bands are G90, 12 ga for belt widths up less than 42", 10 ga for belt widths 42" and up. Aluminum, Stainless Steel and Powder-coated are available.

DESIGN NOTE
Standard CH180 Series Covers are designed for conveyor frames with outside dimensions of belt width +12".
Eye bolts may hit conveyor structure when top chords are "T" or "W" structural shapes. This should be verified before ordering.
Special brackets are available for these circumstances.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

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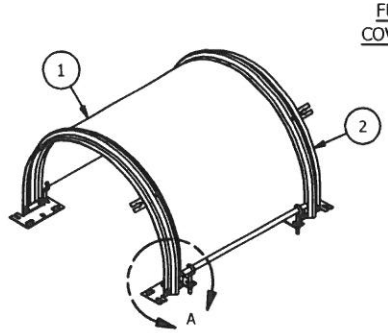
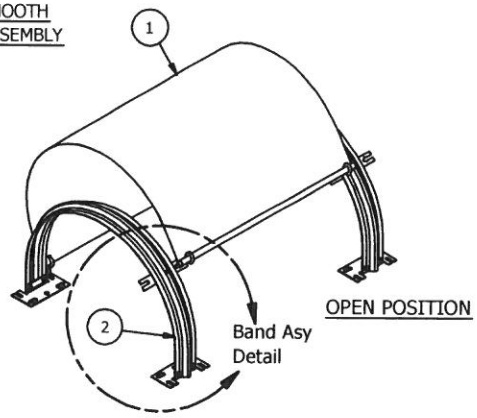
STANDARD INSTALLATION PROCEDURE

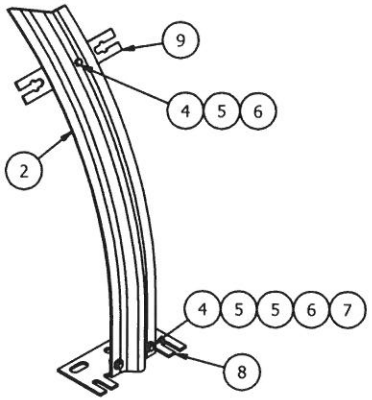
FULL SMOOTH
COVER ASSEMBLY



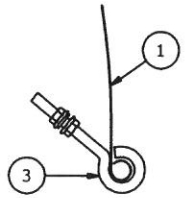
CLOSED POSITION



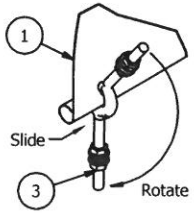
OPEN POSITION



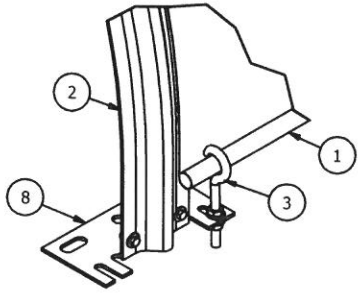
BAND ASSEMBLY
Cover not shown for clarity



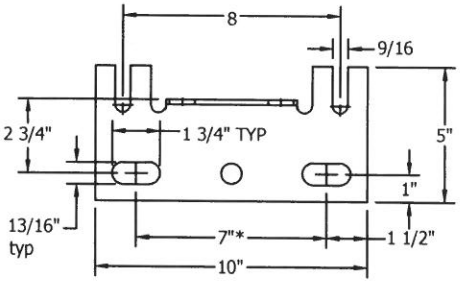
EYEBOLT INSTALLATION
Step 1
Slip eyebolt loop over cover end roll.



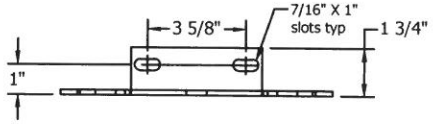
EYEBOLT INSTALLATION
Step 2
Slide eyebolt down to hole and rotate into position.



DETAIL A
COVER ATTACHMENT



*Bolt centers can be 6" minimum, 8" maximum



FOOT BRACKET DETAIL
Material: 8ga galvanized steel

INSTALLATION PROCEDURE

1. Bolt foot brackets [8] and retaining bar [9] to support band [2], using 5/16" hardware [4-7].
2. Locate support band on conveyor frame at desired spacing.
3. Drill 11/16" dia. holes on 7" centers in conveyor frame to match foot brackets. Foot bracket slots are 13/16" x 1-3/4" to allow for minor adjustments.
4. Bolt bands to conveyor with retaining bar on desired side. This 5/8" hardware is normally not furnished by RPS, but is available as an option.
5. Position cover [1] over support bands, and attach to foot brackets with 1/2" eyebolts [3]. See Eyebolt Installation Details and Cover Attachment Detail.
6. Make sure bands are perpendicular to conveyor support. Tighten all hardware.

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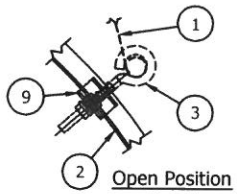

Open Position
Detail

Note: To move covers to Open Position, loosen (do not remove) lower nuts of front eyebolts. Then prop the eyebolts into the retaining brackets.

CH-SERIES FULL SMOOTH COVERS

Item	Part Number	Description	Per Cover	Per Band
1	CH__GC__	Cover, Full Smooth, Galvanized G90, standard 22 ga		
2	CH__GB	Support Band, Galv G90, std 12ga for BW<42", 10ga ≥ BW42"		
3	12-6EBS-ZN	Eye bolt set, 1/2"-13 x 6", w/2 flanged hex nuts & 1 lock washer	4	
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		5
5	516FW-ZN	Washer, flat, 5/16"		9
6	516HN-ZN	Nut, hex, 5/16-18		5
7	516LW-ZN	Washer, lock, 5/16"		4
8	FB-G	Foot bracket/Base Bracket, 8 ga galvanized		2
9	RB-G	Retaining/Inspection bar, 7 ga galvanized		1

Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.

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CH75 Conveyor Cover Series (Smooth 135° Coverage)

RPS Engineering's CH75-Series hood assembly is ¾, 135° coverage with a 45° degree open. This series is stationary. They help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements but still allow one to view the belt and items conveyed without having to touch the covers.

RPS also offers a CHEB75-Series hood assembly that is ¾ hinged and can be quickly and easily opened.

Our standard CH75 & CHEB75 Cover Assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60", 72", 84", & 96" belt widths. Custom sizes are also available.

Standard covers are made from 22 gauge, G-90, galvanized steel with support bands made from 12 gauge, G-90, galvanized steel for belt widths up to 36" wide or 10 gauge, G-90, galvanized steel support bands for belt widths 42" wide and above. The assemblies come with heavy duty galvanized steel mounting foot brackets. Standard hardware is zinc plated.

These assemblies can be made to accommodate 3' through 5' idler spacing with 4'-0" being our standard. If required, RPS is able to cut covers shorter or taper covers for the special section(s) on your project.

Optional cover and band materials include Aluminum, Stainless Steel and our Fiberglass – CHFG75 series.

Because RPS Engineering, Inc. manufactures everything to order, we are able to manufacture most custom dimensions that may be required for your specific project. If heavier gauges are required for our assemblies for loading requirements, special tangents, special radius or an opening different than the standard 45°, RPS can meet those special requirements.

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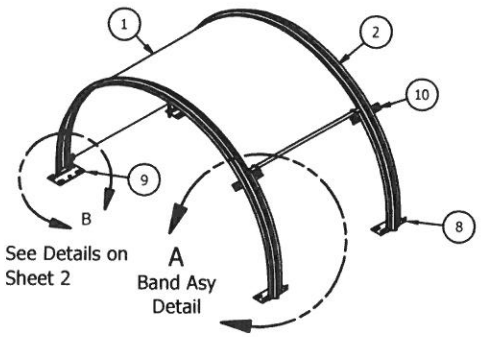
Note: It is the customer's (or customer's representative's) responsibility to check the compatibility between the cover opening and the conveyor idlers. RPS Engineering, Inc. can not be held responsible for errors that would lead to water on the belt or interference problems.

CH75-SERIES 3/4 SMOOTH COVERS

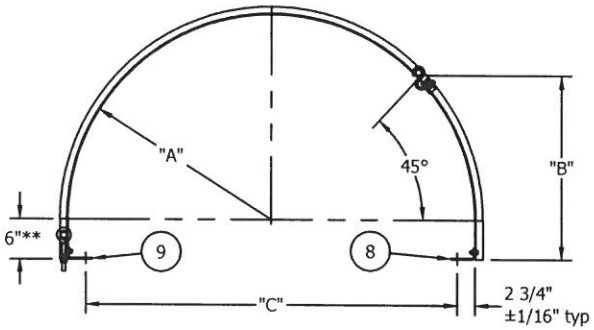
(All Dimensions are standard. Other options for band spacing, cover sizes are available upon request)

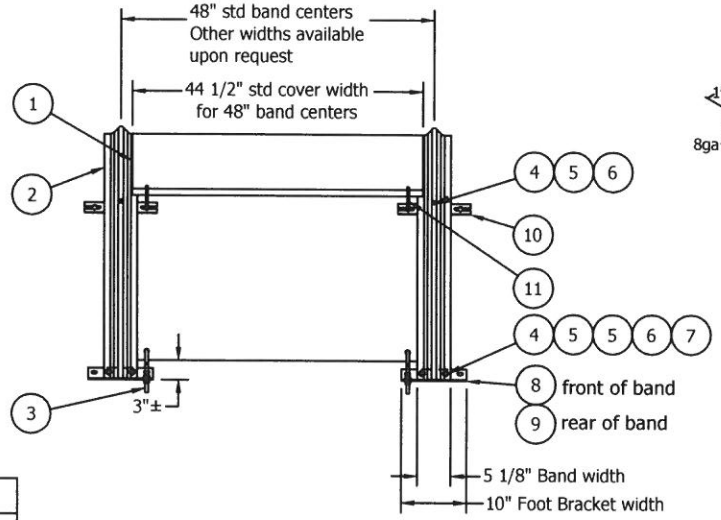
Item	Part Number	Description	Per Cover	Per Band	Total Qty
1	CH75__GC__	Cover, Full Smooth, Galvanized G90, standard 22 ga			0
2	CH75__GB	Support Band, Galv G90, std 12ga for BW<42", 10ga ≥ BW42"			0
3	12-6EBS-ZN	Eye bolt set, 1/2"-13 x 6", w/2 flanged hex nuts & 1 lock washer	2		0
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		5	0
5	516FW-ZN	Washer, flat, 5/16"		9	0
6	516HN-ZN	Nut, hex, 5/16-18		5	0
7	516LW-ZN	Washer, lock, 5/16"		4	0
8	CA358-G	Clip Angle, 7"mtg hole spcg, 8"& 3 5/8" band hole spcg, galv G90		1	0
9	FB-G	Foot Bracket/Base Bracket, galvanized		1	0
10	RB-G	Retaining/Inspection bar, 7 ga galvanized		1	0
11	SH-ZN	S-Hook, 3 1/4" overall length	2		0

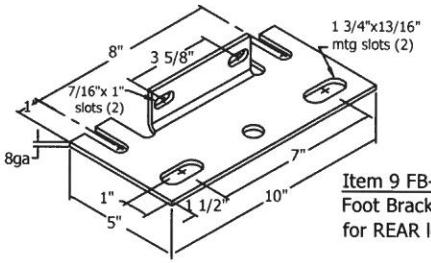
Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.



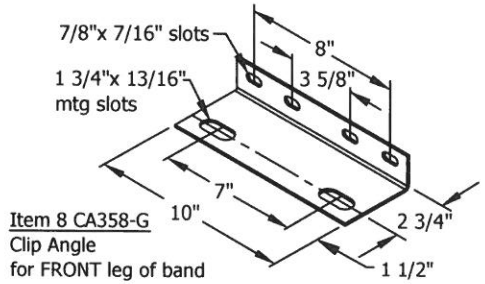
Hardware to mount foot brackets to conveyor is normally provided by other, but is available as an option.







Item 9 FB-G
Foot Bracket
for REAR leg of band



Item 8 CA358-G
Clip Angle
for FRONT leg of band

SPECIFICATIONS					
ASSEMBLY NO.	BELT WIDTH	"A"	"B"	"C"	WT in LB
CH7518GA40	18"	16-1/4"	19-1/4"	27"	45
CH7520GA40	20"	17-1/4"	20"	29"	48
CH7524GA40	24"	19-1/4"	21-7/8"	33"	50
CH7530GA40	30"	22-1/4"	24"	39"	54
CH7536GA40	36	25-1/4"	26-1/8"	45"	61
CH7542GA40	42"	28-1/4"	28-1/4"	51"	67
CH7548GA40	48"	31-1/4"	30-3/8"	57"	72
CH7554GA40	54"	34-1/4"	32-1/2"	63"	77
CH7560GA40	60"	37-1/4"	34-5/8"	69"	83
CH7572GA40	72"	43-1/4"	39"	81"	93
CH7584GA40	84"	49-1/4"	43"	93"	104

** 6" is standard tangent, other available upon request.

Material:
Standard covers are 22 ga G90 galvanized steel. Bands are G90, 12 ga for belt widths up less than 42", 10 ga for belt widths 42" and up. Aluminum, Stainless Steel and Powder-coated are available.

DESIGN NOTE
Standard CH75 Series Covers are designed for conveyor frames with outside dimensions of belt width +12".
Eye bolts may hit conveyor structure when top chords are "T" or "W" structural shapes. This should be verified before ordering. Special brackets are available for the rear leg of the bands for these circumstances.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

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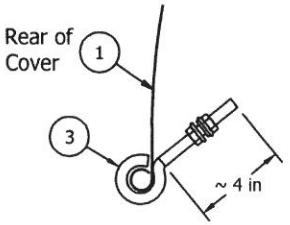
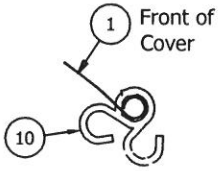
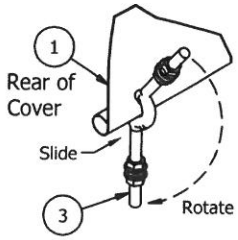
STANDARD INSTALLATION PROCEDURE





EYEBOLT / S-HOOK INSTALLATION
Step 1
Slip eyebolt or S-hook loop over cover end roll.

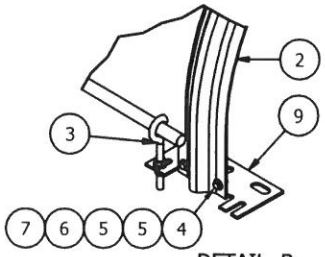


EYEBOLT / S-HOOK INSTALLATION
Step 2
Slide eyebolt or S-hook down to hole & rotate into position.

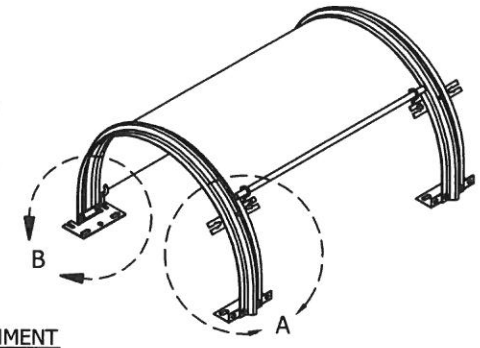
CH75-SERIES 3/4 SMOOTH COVERS

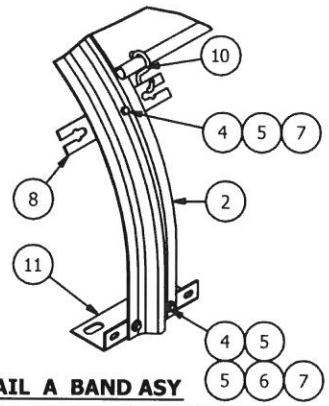
Item	Part Number	Description	Per Cover	Per Band
1	CH75__GC__	Cover, Full Smooth, Galvanized G90, standard 22 ga		
2	CH75__GB	Support Band, Galv G90, std 12ga for BW<42", 10ga ≥ BW42"		
3	12-6EBS-ZN	Eye bolt set, 1/2"-13 x 6", w/2 flanged hex nuts & 1 lock washer	2	
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		5
5	516FW-ZN	Washer, flat, 5/16"		9
6	516HN-ZN	Nut, hex, 5/16-18		5
7	516LW-ZN	Washer, lock, 5/16"		4
8	CA358-G	Clip Angle, 7"mtg hole spcg, 8"& 3 5/8" band hole spcg, galv G90		1
9	FB-G	Foot Bracket/Base Bracket, galvanized		1
10	RB-G	Retaining/Inspection bar, 7 ga galvanized		1
11	SH-ZN	S-Hook, 3 1/4" overall length	2	

Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.



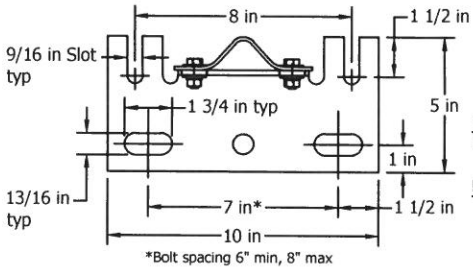
DETAIL B
REAR COVER ATTACHMENT
Shown from rear for clarity





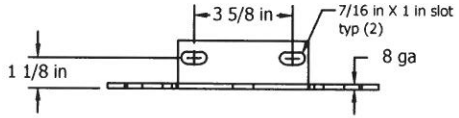
DETAIL A BAND ASY
FRONT COVER ATTACHMENT

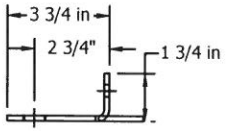
INSTALLATION PROCEDURE
1. Bolt foot brackets [9]in rear of support band [2]. Bolt clip angles [11] & retaining bar [8] in front of band, using 5/16" hardware [4-7].
2. Locate support band on conveyor frame at desired spacing.
3. Drill 11/16" dia. holes in conveyor frame to match foot brackets.
4. Bolt bands to conveyor with retaining bar on desired side. This 5/8" hardware is normally not furnished by RPS.
5. Position cover [1] over support bands, and attach to foot brackets with 1/2" eyebolts [3] in the rear and S-hooks [10] in front. See Eyebolt / S-hook Installation Details and Cover Attachment Detail.
6. Make sure bands are perpendicular to conveyor. Tighten all hardware.

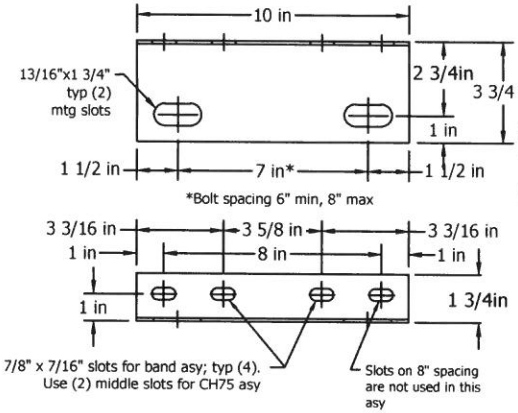


FOOT BRACKET FB-G
Material: 8 ga Galv Steel G90

FOR REAR OF BAND ONLY

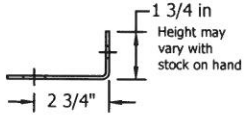






CLIP ANGLE CA358
Material: 10 ga Galv Steel G90

FOR FRONT OF BAND ONLY



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Note: It is the customer's (or customer's representative's) responsibility to check the compatibility between the cover opening and the conveyor idlers. RPS Engineering, Inc. can not be held responsible for errors that would lead to water on the belt or interference problems.

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CHCO Conveyor Cover Series (Corrugated 180° Coverage)

RPS Engineering's CHCO-Series hood assembly is full corrugated cover and band with a 180° coverage. Because these are corrugated, these are more rigid and made from a heavier gauge material than our standard CH smooth series. They are quick opening and hinged for inspecting or viewing the items being conveyed. They also allow for ease of repairing, replacing, greasing or inspecting of the idlers. They help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements.

Our CHCO Cover Assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60", 72", 84", & 96" belt widths. Custom sizes are also available.

Standard covers and bands are made from 20 gauge, G-90, galvanized steel. They assemblies come with heavy duty galvanized steel mounting clip angles and standard zinc plated hardware. These assemblies can be made to accommodate 3' through 5' idler spacing with 4'-0" being our standard.

Optional cover and band materials include Aluminum, Stainless Steel, and painted galvanized steel.

Because RPS Engineering, Inc. manufactures everything to order, we are able to manufacture custom dimensions that may be required for your specific project. If a heavier gauge is required for our assemblies for loading requirements, RPS can meet those special requirements.

RPS Engineering INCORPORATED

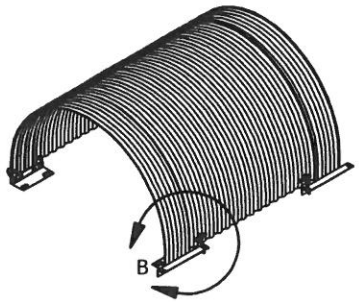
R.P.S. Engineering, Inc. P.O. Box 5186 Elgin Illinois 60121-5186
(847) 931-1950 Office 1-800-931-1950 Outside Illinois 1-847-931-4274 Fax

CHCO-SERIES CORRUGATED FULL QUICK-OPENING COVERS

(All Dimensions are standard. Other options for band spacing and cover sizes are available upon request)

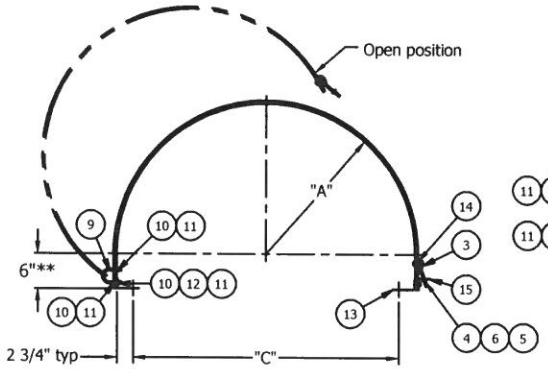
Item	Part#	Description	Per Cover	Per Band
1	CHCO__GC42	Cover, Quick-Opening, Corrugated 2 2/3" x 1/2", Galvanized Steel G90		
2	CHCO__GB10	Support Band, Corrugated 2 2/3" x 1/2", Galv G90		
3	38-5EB-ZN	Eyebolt, 3/8-16 x 5"	2	0
4	38FW-ZN	Flat Washer, 3/8"	2	0
5	38HN-ZN	Hex Nut, 3/8-16	2	0
6	38LW-ZN	Lock Washer, 3/8"	2	0
7	516-112HHB-ZN	Bolt, Hex Head, 5/16-18 x 1 1/2"	0	2
8	516-1HHB-ZN	Bolt, Hex Head, 5/16-18 x 1"	4	0
9	516-214UB-ZN	U-Bolt, 5/16 x 18, 2 1/4"	2	0
10	516FW-ZN	Flat Washer, 5/16"	14	4
11	516HN-ZN	Hex Nut, 5/16-18	10	2
12	516LW-ZN	Lock Washer, 5/16"	6	2
13	CA7-G	Clip Angle, 7" Mtg slot spacing, 8" band slot spacing, galv	0	2
14	FLP-ZN	Latch Plate, Flat, 3/4" x 3 3/4"	2	0
15	LA15-G	Locking Angle, 15" long for 10" corrugated bands, galvanized	0	1

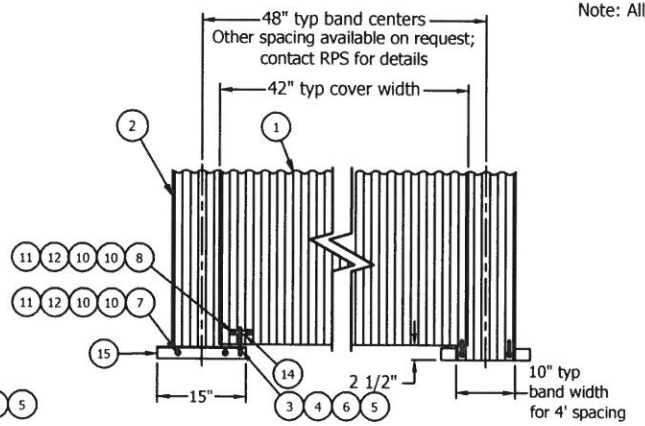
Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.



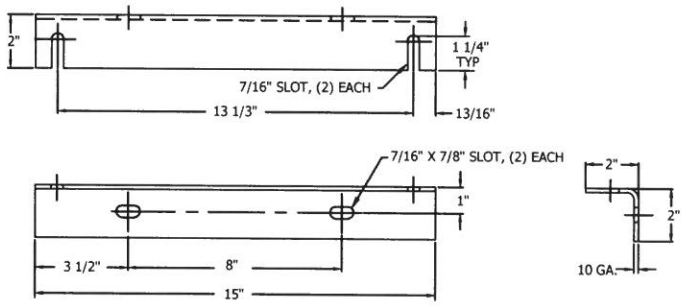
Hardware to mount clip angles to conveyor provided by other.

For Details & Installation Procedure see Standards on Sheet 2





FRONT VIEW **REAR VIEW**



LA15-G STANDARD LOCKING ANGLE FOR CHCO 10" BANDS FOR FULL COVERS

SPECIFICATIONS				
ASSEMBLY NO.	BELT WIDTH	"A"	"C"	WT in LB
CHCO18GA40	18"	16-1/4"	27"	51
CHCO20GA40	20"	17-1/4"	29"	54
CHCO24GA40	24"	19-1/4"	33"	58
CHCO30GA40	30"	22-1/4"	39"	64
CHCO36GA40	36	25-1/4"	45"	70
CHCO42GA40	42"	28-1/4"	51"	76
CHCO48GA40	48"	31-1/4"	57"	82
CHCO54GA40	54"	34-1/4"	63"	88
CHCO60GA40	60"	37-1/4"	69"	95
CHCO72GA40	72"	43-1/4"	81"	107
CHCO84GA40	84"	49-1/4"	93"	119

** 6" is standard tangent, other available upon request.

Material:
Standard covers and bands are 20 ga G90 galvanized steel.
Aluminum, Stainless Steel and Powder-coated are available.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

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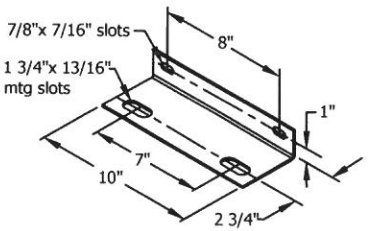

STANDARD CA7-G

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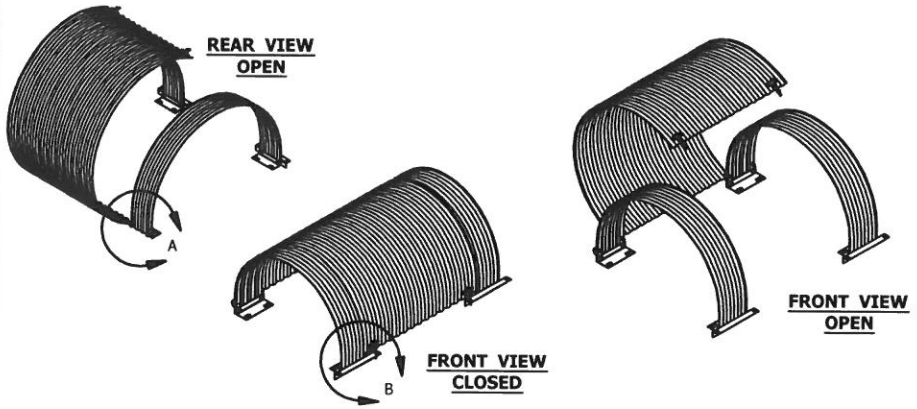
www.rpsengineering.com

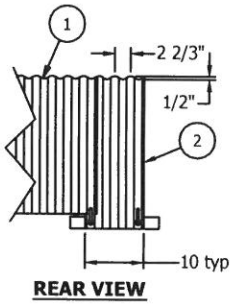
STANDARD INSTALLATION PROCEDURE

CHCO-SERIES CORRUGATED FULL QUICK-OPENING COVERS

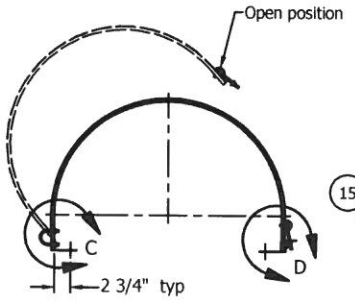
Item	Part#	Description	Per Cover	Per Band
1	CHCO__GC42	Cover, Quick-Opening, Corrugated 2 2/3" x 1/2", Galvanized Steel G90		
2	CHCO__GB10	Support Band, Corrugated 2 2/3" x 1/2", Galv G90		
3	38-5EB-ZN	Eyebolt, 3/8-16 x 5"	2	0
4	38FW-ZN	Flat Washer, 3/8"	2	0
5	38HN-ZN	Hex Nut, 3/8-16	2	0
6	38LW-ZN	Lock Washer, 3/8"	2	0
7	516-112HHB-ZN	Bolt, Hex Head, 5/16-18 x 1 1/2"	0	2
8	516-1HHB-ZN	Bolt, Hex Head, 5/16-18 x 1"	4	0
9	516-214UB-ZN	U-Bolt, 5/16 x 18, 2 1/4"	2	0
10	516FW-ZN	Flat Washer, 5/16"	14	4
11	516HN-ZN	Hex Nut, 5/16-18	10	2
12	516LW-ZN	Lock Washer, 5/16"	6	2
13	CA7-G	Clip Angle, 7" Mtg slot spacing, 8" & 3 5/8" vertical leg slot spacing, galv	0	2
14	FLP-ZN	Latch Plate, Flat, 3/4" x 3 3/4"	2	0
15	LA15-G	Locking Angle, 15" long for 10" corrugated bands, galvanized	0	1

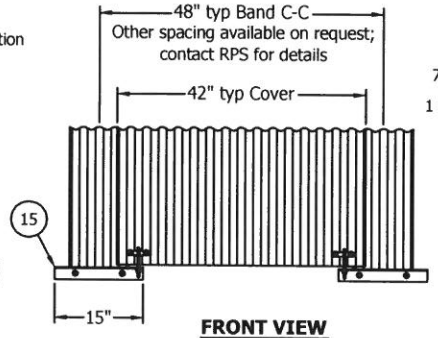
Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.



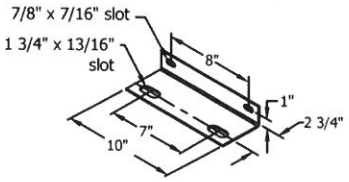


REAR VIEW





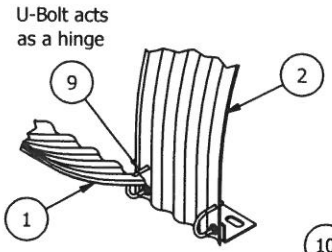
FRONT VIEW



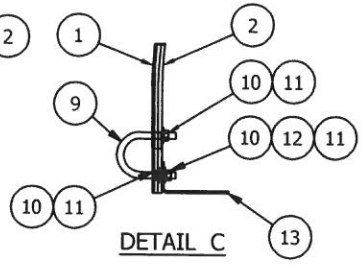
STANDARD CA7-G
CLIP ANGLE

INSTALLATION PROCEDURE

1. Bolt clip angles [13] to conveyor with 5/8" fasteners, which are normally not provided by RPS.
2. Fasten support band [2] and locking angle [15] on opening side ("front") to clip angles with 5/16" hardware [7 & 10-12].
3. Insert flat latch plate [14] thru eyebolt [3] and attach latch plate to cover with 5/16" hardware [8 & 10-12].
4. Position cover [1] over support bands, and connect cover to rear side of bands with 5/16" U-bolts [9]. See Hinge Details A & C.
5. Secure front side of cover with 3/8" eyebolts [3-6]. See Latch Details B & D.
6. Be sure bands are perpendicular to conveyor support and that cover fits in band corrugations. Tighten all fasteners.

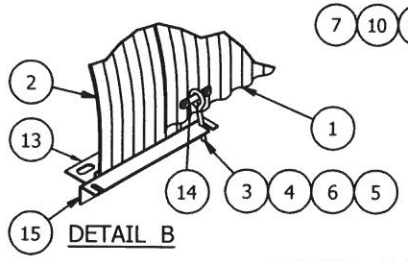


DETAIL A
Open position

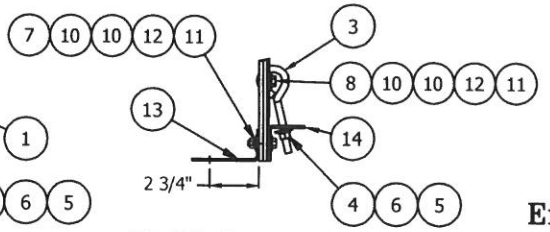


DETAIL C

REAR of COVER



DETAIL B



DETAIL D

FRONT of COVER

Note: Loosen (do not remove) hex nut to open cover

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CHCS Conveyor Cover Series (Corrugated 135° Coverage)

RPS Engineering's CHCS-Series hood assembly is a ¾ corrugated cover and band with a 135° coverage. Because these are corrugated, these are more rigid and made from a heavier material than our standard CH smooth series. They are stationary with a standard 45° opening. This allows for inspecting or viewing the items being conveyed and the ease of repairing, replacing, greasing or inspecting of the idlers without touching the cover assemblies. They help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements.

Our CHCS Cover assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60", 72", 84", & 96" belt widths. Custom sizes are also available.

Standard covers and bands are made from 20 gauge, G-90, corrugated galvanized steel. The assemblies come with heavy duty galvanized steel mounting clip angles and standard zinc plated hardware.

These assemblies can be made to accommodate 3' through 5' idler spacing with 4'-0" being our standard.

Optional cover and band material include Aluminum, Stainless Steel and painted galvanized steel.

Because RPS Engineering manufactures everything to order, we are able to manufacture custom dimensions to meet what is required for your specific project. If a heavier gauge material is required for loading, RPS can meet those special requirements.

RPS Engineering INCORPORATED

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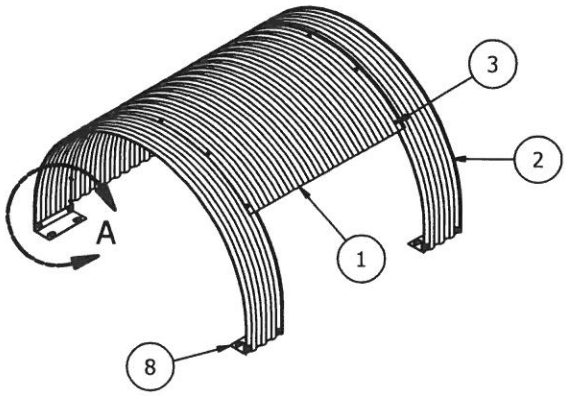
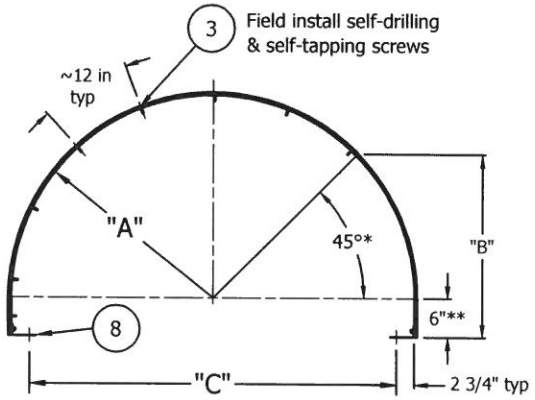
CHCS75 SERIES 3/4 CORRUGATED STATIONARY COVERS

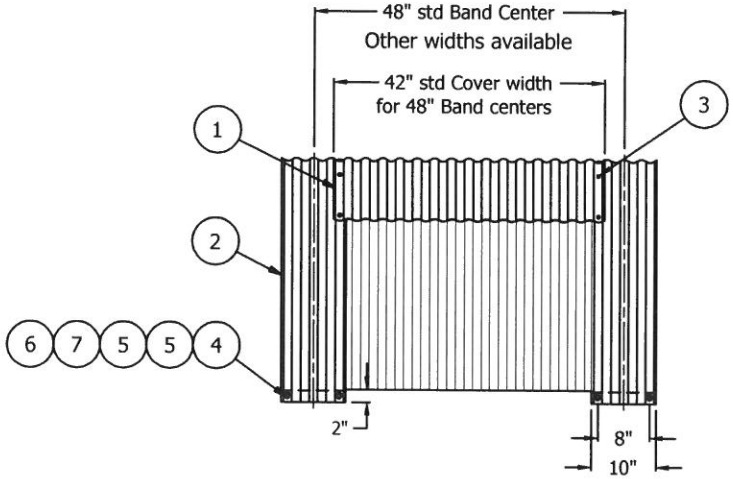
(All Dimensions are standard. Other options for band spacing, cover length are available upon request)

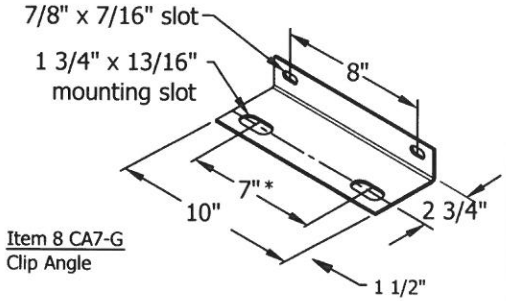
Item	Part #	Description	Per Cover	Per Band
1	CHCS__GC42	Cover, 3/4 corrugated 2 2/3" x 1/2", stationary, galv G90	0	
2	CHC__GB10	Support band, corrugated 2 2/3" x 1/2", galv G90		0
3	14-78LS/W-ZN	Lap screw with washer, 1/4" x 7/8"	varies	
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		4
5	516FW-ZN	Washer, flat, 5/16"		8
6	516HN-ZN	Nut, hex, 5/16-18		4
7	516LW-ZN	Washer, lock, 5/16"		4
8	CA7-G	Clip angle, 7" mtg hole spacing, 8" band hole spacing, galvanized		2

Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.









CLIP ANGLE DETAIL

* Bolt centers can be 6" minimum, 8" maximum

SPECIFICATIONS					
ASSEMBLY NO.	BELT WIDTH	"A"	"B"	"C"	WT / ASY
CHCS7518GA40	18"	16-1/4"	19-1/4"	27"	37 lbs
CHCS7520GA40	20"	17-1/4"	20"	29"	39 lbs
CHCS7524GA40	24"	19-1/4"	21-7/8"	33"	43 lbs
CHCS7530GA40	30"	22-1/4"	24"	39"	49 lbs
CHCS7536GA40	36	25-1/4"	26-1/8"	45"	52 lbs
CHCS7542GA40	42"	28-1/4"	28-1/4"	51"	57 lbs
CHCS7548GA40	48"	31-1/4"	30-3/8"	57"	62 lbs
CHCS7554GA40	54"	34-1/4"	32-1/2"	63"	67 lbs
CHCS7560GA40	60"	37-1/4"	34-5/8"	69"	72 lbs
CHCS7572GA40	72"	43-1/4"	39"	81"	82 lbs
CHCS7584GA40	84"	49-1/4"	43"	93"	91 lbs

* 45° is standard opening; other available upon request.
** 6" is standard tangent; other available upon request.

Material:
Standard covers and bands are 20 ga G90 galvanized steel.
Aluminum, Stainless Steel and Powder-coated are available.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

Note: It is the customer's (or customer's representative's) responsibility to check the compatibility between the cover opening and the conveyor idlers. RPS Engineering, Inc. can not be held responsible for errors that would lead to water on the belt or interference problems.

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STANDARD INSTALLATION PROCEDURE

CHCS75 SERIES 3/4 CORRUGATED STATIONARY COVERS

Item	Part #	Description	Per Cover	Per Band
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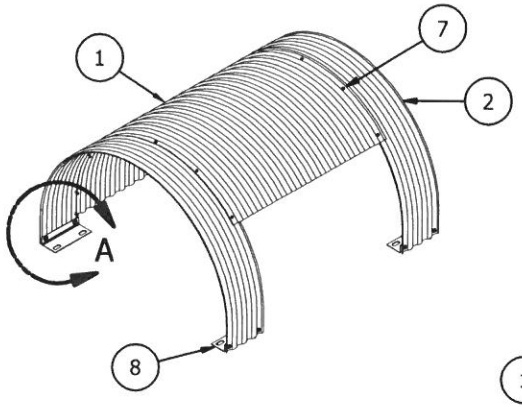
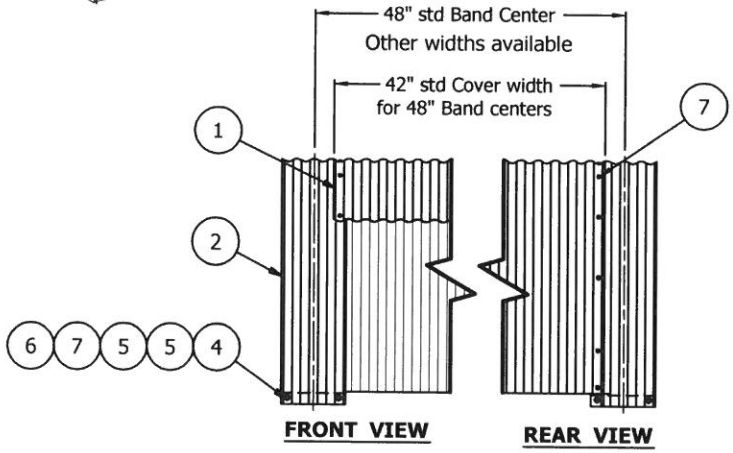
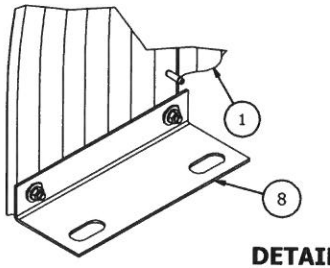
3	14-78LS/W-ZN	Lap screw with washer, 1/4" x 7/8"	varies	
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1"		4
5	516FW-ZN	Washer, flat, 5/16"		8
6	516HN-ZN	Nut, hex, 5/16-18		4
7	516LW-ZN	Washer, lock, 5/16"		4
8	CA7-G	Clip angle, 7" mtg hole spacing, 8" upright hole spacing, galvanized		2

Note: All standard hardware is grade 2, zinc plated. Hot dipped galvanized and stainless steel are options.

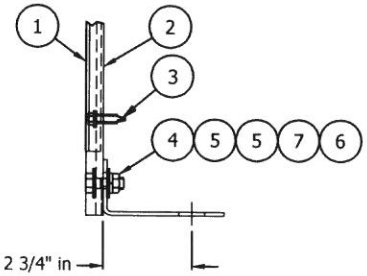


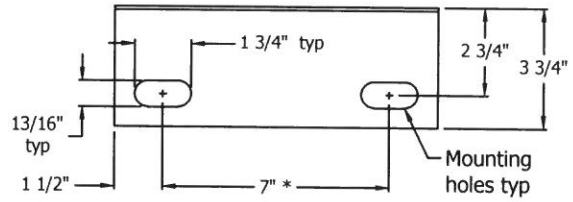


FRONT VIEW **REAR VIEW**

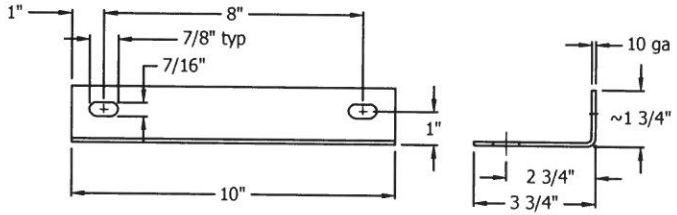


DETAIL A





* Bolt centers can be 6" minimum, 8" maximum



CLIP ANGLE (Item 8)

Material: 10 ga galvanized steel

INSTALLATION PROCEDURE

1. Drill 11/16" dia. holes in conveyor support to match clip angles [8] and desired support band spacing.
2. Bolt clip angles to bands [2] using 5/16" hardware [4-7]. See Detail A.
3. Locate bands on conveyor and attach with 5/8" fasteners. Normally this hardware not furnished by RPS. Bands must be perpendicular to conveyor support.
4. Position covers [1] on bands and attach with lap screws [3] on ~12" spacing.

Note: It is the customer's (or customer's representative's) responsibility to check the compatibility between the cover opening and the conveyor idlers. RPS Engineering, Inc. can not be held responsible for errors that would lead to water on the belt or interference problems.

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CHLC Conveyor Cover Series (Longitudinal Corrugated Covers)

RPS Engineering's CHLC-Series hood assembly is a ¾ corrugated cover and band assembly with a 135° coverage. The corrugations are parallel with the belt, therefore these are a more economical cover system. They are stationary with a standard 45° opening. This allows for inspecting or viewing the items being conveyed and the ease of repairing, replacing, greasing or inspecting of the idlers without touching the cover assemblies. They help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements.

Our CHLC Cover assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60", 72", 84", & 96" belt widths. Custom sizes are also available.

Standard cover panels are made from 24 gauge, G-90, corrugated galvanized steel with the bands made from 20 gauge, G-90 corrugated galvanized steel. The assemblies come with heavy duty galvanized steel mounting clip angles and standard zinc plated hardware.

These assemblies can be made to accommodate 3' through 5' idler spacing with 4'-0" being our standard.

Optional cover and band material includes Aluminum and Stainless Steel. Because RPS Engineering, Inc. manufactures everything to order, we are able to manufacture most custom dimensions that may be required for your specific project. If heavier gauges are required for loading, RPS can meet those special requirements.

RPS Engineering INCORPORATED

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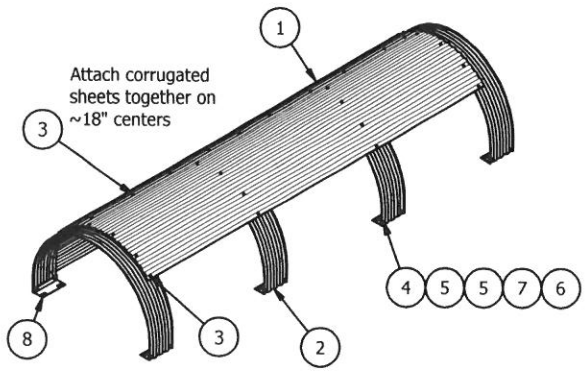
CHLC75 SERIES 3/4 CORR'D LONGITUDINAL FIXED COVERS

(All Dimensions are standard. Other options for band spacing, cover length are available upon request)



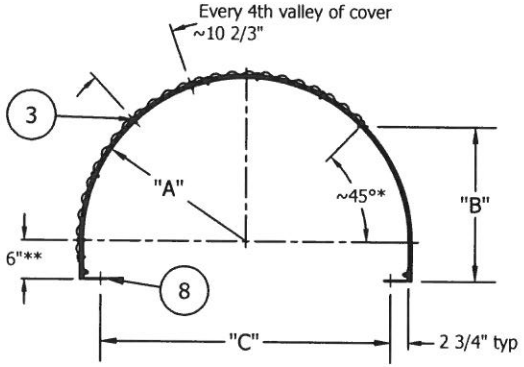
Hardware to mount clip angles to conveyor provided by others.

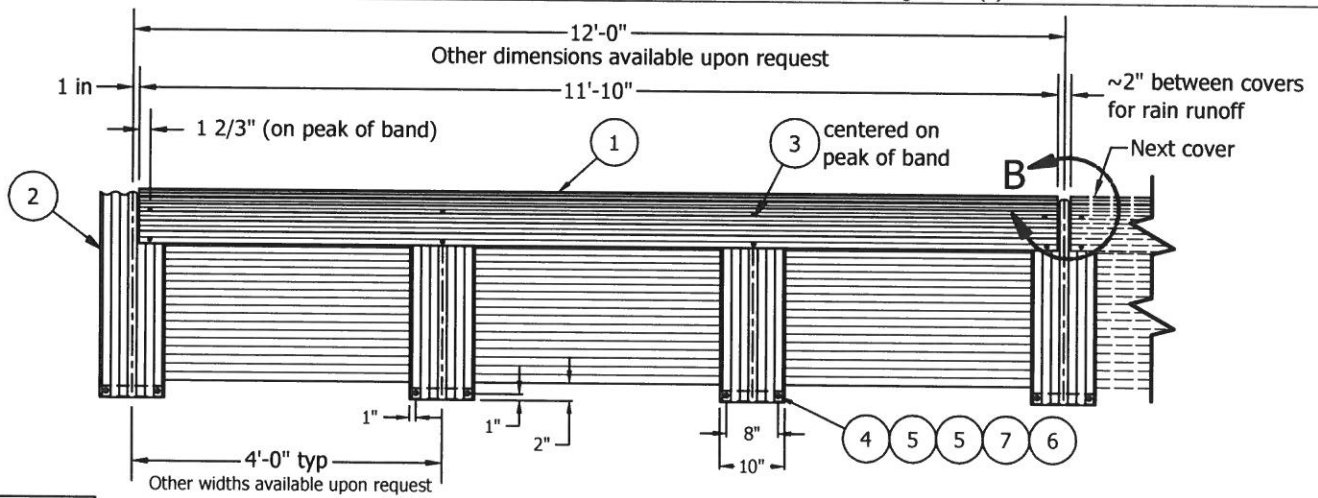
For Details and Installation Procedure, see Standards on CHLC75 p. 2

Item	Part No.	Description	Per Cover	Per Band
1	CHLC75__GC40120	Cover Asy^, 3/4 corr'd longitunally, stationary, Galv G90		
2	CHC36GB10	Support band, corrugated 2 2/3" x 1/2", Galv G90		
3	14-78LS/W-ZN	Lap screw** with washer, 1/4" x 7/8", zinc plate	varies	varies
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1", zinc plate		4
5	516FW-ZN	Flat washer, 5/16", zinc plate		8
6	516HN-ZN	Nut, hex, 5/16-18, zinc plate		4
7	516LW-ZN	Lock washer, 5/16", zinc plate		4
8	CA7-G	Clip Angle, 7" Mtg slot spacing, 8" vertical leg slot spcg, galv		2

^ Cover Assemblies typically consist of more than one corrugated sheet

Note: Every 3rd band needs twice as many lap screws for fastening ends of (2) covers





SPECIFICATIONS					
ASSEMBLY NO.	BELT WIDTH	"A"	"B"	"C"	WT / LF
CHLC7518GA40	18"	16-1/4"	19-1/4"	27"	8.60 lbs
CHLC7520GA40	20"	17-1/4"	20"	29"	9.17 lbs
CHLC7524GA40	24"	19-1/4"	21-7/8"	33"	10.00 lbs
CHLC7530GA40	30"	22-1/4"	24"	39"	11.08 lbs
CHLC7536GA40	36	25-1/4"	26-1/8"	45"	12.42 lbs
CHLC7542GA40	42"	28-1/4"	28-1/4"	51"	13.58 lbs
CHLC7548GA40	48"	31-1/4"	30-3/8"	57"	14.67 lbs
CHLC7554GA40	54"	34-1/4"	32-1/2"	63"	15.83 lbs
CHLC7560GA40	60"	37-1/4"	34-5/8"	69"	19.88 lbs
CHLC7572GA40	72"	43-1/4"	39"	81"	21.08 lbs
CHLC7584GA40	84"	49-1/4"	43"	93"	23.75 lbs

* 45° is std opening; other available upon request.
** 6" is std tangent; other available upon request.

Material:
Standard covers are 24 ga G90 galvanized steel, corrugated 1/2"x 2.67".
Standard bands are 20 ga G90 galvanized steel, corrugated 1/2"x 2.67".
Aluminum, Stainless Steel and Powder-coated are available.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

Note: It is the customer's (or customer's representative's) responsibility to check the compatibility between the cover opening and the conveyor idlers. RPS Engineering, Inc. can not be held responsible for errors that would lead to water on the belt or interference problems.

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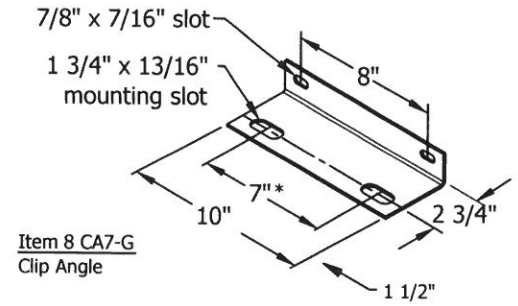
STANDARD INSTALLATION PROCEDURE

CHLC75 SERIES 3/4 CORR'D LONGITUDINAL FIXED COVERS

Item	Part No.	Description	Per Cover	Per Band
1	CHLC75__GC40120	Cover Asy*, 3/4 corr'd longitunally, stationary, Galv G90		
2	CHC36GB10	Support band, corrugated 2 2/3" x 1/2", Galv G90		
3	14-78LS/W-ZN	Lap screw** with washer, 1/4" x 7/8", zinc plate	varies	varies
4	516-1HHB-ZN	Bolt, hex head, 5/16"-18 x 1", zinc plate		4
5	516FW-ZN	Flat washer, 5/16", zinc plate		8
6	516HN-ZN	Nut, hex, 5/16-18, zinc plate		4
7	516LW-ZN	Lock washer, 5/16", zinc plate		4
8	CA7-G	Clip Angle, 7" Mtg slot spacing, 8" vertical leg slot spcg, galv		2

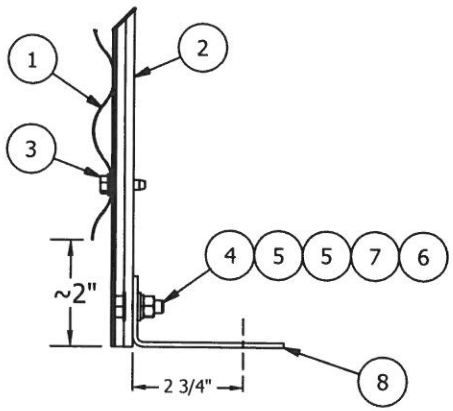
^Cover Assemblies typically consist of more than one corrugated sheet, attached together with lap screws on ~18" centers

Note: End bands need twice as many lap screws for fastening (2) covers

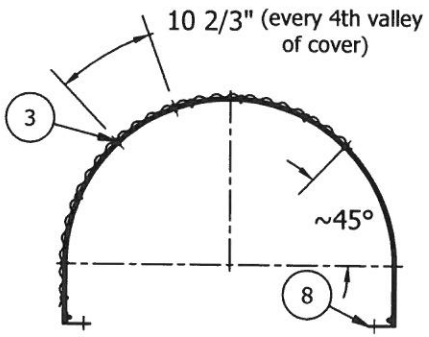


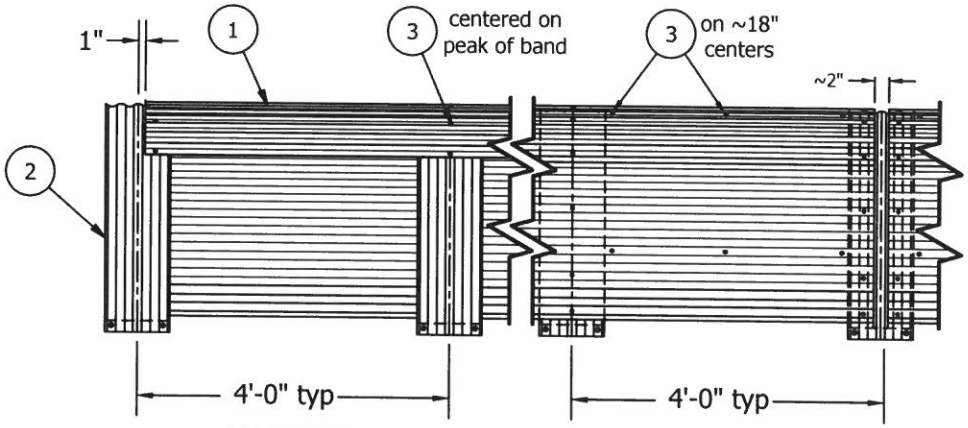
CLIP ANGLE DETAIL

* Bolt centers can be 6" minimum, 8" maximum



DETAIL C

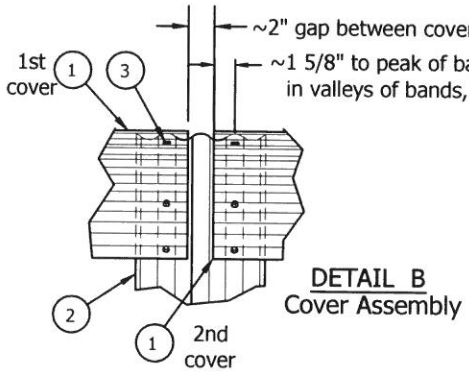




FRONT VIEW **REAR VIEW**

INSTALLATION PROCEDURE

1. Bolt clip angles [8] to support bands [2] using 5/16" hardware [4-7].
2. Locate support bands on conveyor and attach with hardware that is normally provided by other. Bands must be perpendicular to conveyor support.
3. Lap covers [1] one corrugation at adjoining edges using [3] to attach. See Detail A. Attach covers to bands with more lap screws [3] on approx. 10 2/3" spacing (1 lap screw every 4 corrugations.) See Detail B.
4. Secure side laps with lap screws on approximate 18" spacing.



DETAIL B
Cover Assembly

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CHFG Conveyor Cover Series (Smooth Fiberglass)

RPS Engineering's CHFG-Series hood assembly has a full 180° coverage. These are great for a more corrosive atmosphere and many times used in the salt and fertilizer industries amongst others.

Standard covers are made from white .090" thick fiberglass with bands made from 12 gauge, stainless steel. Type 304 is standard. The assemblies come with heavy duty stainless steel mounting foot brackets and a retaining bar to hold the cover in an open position for maintenance issues. Standard fasteners are type 304 stainless steel. Custom Molded fiberglass support bands are also available.

These are hinged and can be quickly and easily opened for inspecting or viewing the items being conveyed. They also allow for ease of repairing, replacing, greasing or inspecting of the idlers. They help to protect the belt, idlers and material being conveyed from the hot sun, wind, snow, rain and other damaging weather elements.

Our CHFG Cover Assemblies can be made for 18", 20", 24", 30", 36", 42", 48", 54", 60 and 72" belt widths. Custom sizes are also available.

These assemblies can be made to accommodate 3' through 4' idler spacing with 4'-0" being our standard. If required, RPS is able to cut covers shorter for the special section(s) on your project.

Because RPS Engineering, Inc. manufactures everything to order, we are able to manufacture most custom dimensions that may be required for your specific project.

RPS Engineering INCORPORATED

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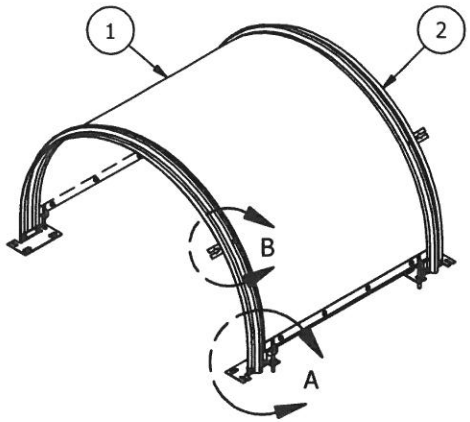
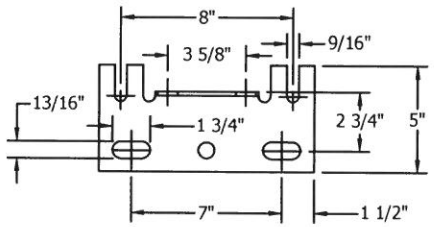
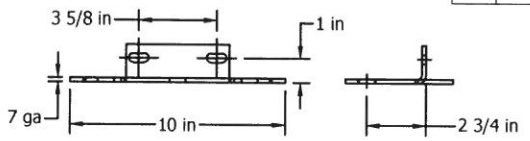
STANDARD INSTALLATION PROCEDURE

CHFG-SERIES FULL SMOOTH FIBERGLASS COVERS

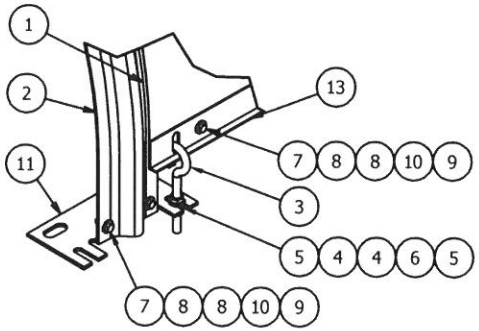
Item	Part Number	Description	Per Cover	Per Band
1	CHFG**C40	Cover, Full Smooth, .090" Fiberglass, White	1	
2	CHFG**B	Support Band, Type 304 Stainless Steel		1
3	12-6EB-304SS	Eye bolt, 1/2"-13 x 6" 304 SS	4	
4	12FW-304SS	Flat washers, 1/2" 304 SS	8	
5	12HN-304SS	Hex nut, 1/2"-13, 304 SS	8	
6	12LW-304SS	Lock washer, 1/2", 304 SS	4	
7	516-1HHB-304SS	Bolt, hex head, 5/16"-18 x 1", 304 Stainless Steel	8	5
8	516FW-304SS	Washer, flat, 5/16", 304 Stainless Steel	16	9
9	516HN-304SS	Nut, hex, 5/16"-18, 304 Stainless Steel	8	5
10	516LW-304SS	Washer, lock, 5/16", 304 Stainless Steel	8	5
11	FB-304SS	Foot bracket/Base Bracket, 304 Stainless Steel		2
12	RB-304SS	Retaining/Inspection bar, 304 Stainless Steel		1
13	SA4412-304SS	Stiffening Angle, 1"x 2" x Cover Width (44 1/2"), 12ga 304SS	2	



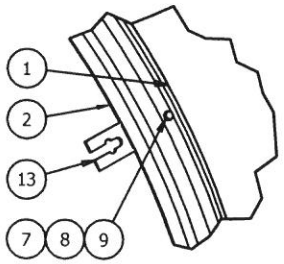




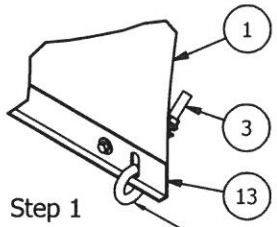
Foot Bracket
Material: 304 Stainless Steel



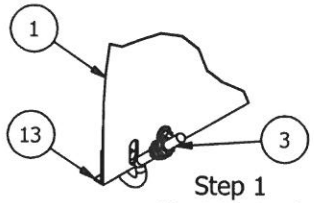
DETAIL A



DETAIL B

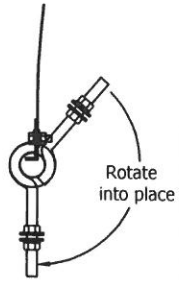


Step 1
(Outside view)

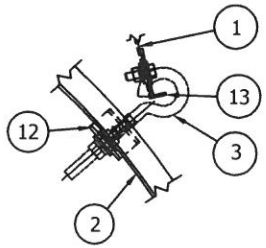


Step 1
(Inside view)

Position Eyebolt over end of Cover & Stiffening Angle and slide down to slot



Step 2



OPEN POSITION DETAIL "C"

Note: To move covers to Open Position, loosen (do not remove) lower nuts of front eyebolts. Then prop the eyebolts into the retaining brackets. See Open Position Detail.

EYEBOLT INSTALLATION DETAIL

INSTALLATION PROCEDURE

1. Bolt foot brackets [11] and retaining bar [12] to support band [2] using 5/16" hardware [7-10]. See Details A & B.
2. Locate bands on conveyor at desired spacing. Drill 11/16" holes in conveyor to match base brackets.
3. Bolt bands to conveyor with retaining bar on desired side. Bands must be perpendicular to conveyor support. Hardware for mounting bands and brackets to conveyor frame is normally not provided by RPS Engineering.
4. Fasten stiffening angles [13] to edges of covers [1] with 5/16" hardware [7-10].
5. Position cover over support bands and attach front and rear of covers to base brackets with 1/2" eyebolts [3-6]. See Eyebolt Installation Detail and Detail A.

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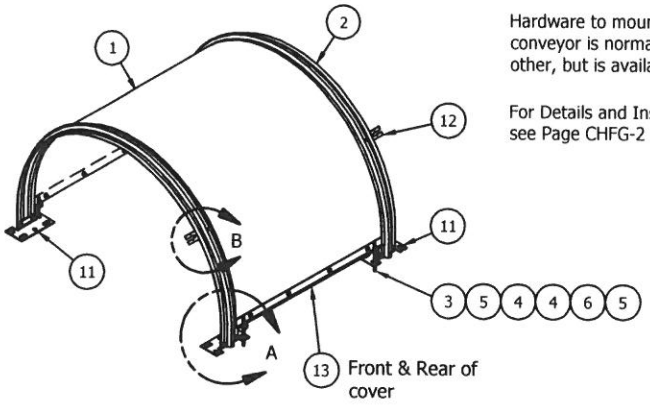
CHFG-SERIES FULL SMOOTH FIBERGLASS COVERS

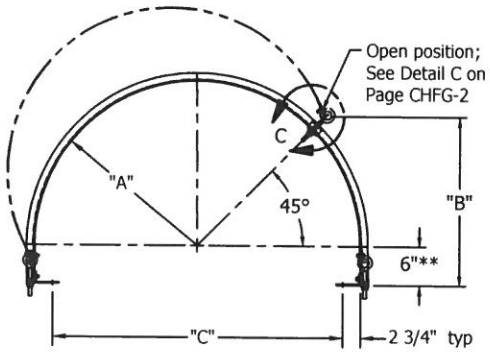
(All Dimensions are standard. Other options for band spacing and cover sizes are available upon request)

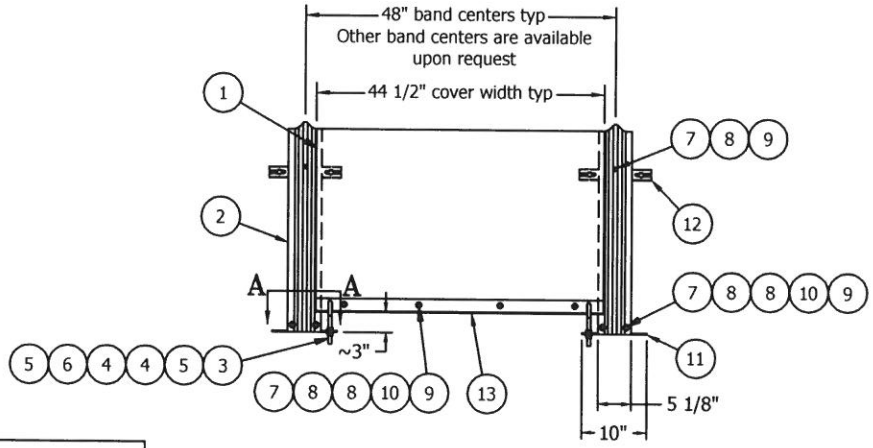
Item	Part Number	Description	Per Cover	Per Band
1	CHFG**C40	Cover, Full Smooth, .090" Fiberglass, White	1	
2	CHFG**B	Support Band, Type 304 Stainless Steel		1
3	12-6EB-304SS	Eye bolt, 1/2"-13 x 6" 304 SS	4	
4	12FW-304SS	Flat washers, 1/2" 304 SS	8	
5	12HN-304SS	Hex nut, 1/2"-13, 304 SS	8	
6	12LW-304SS	Lock washer, 1/2", 304 SS	4	
7	516-1HHB-304SS	Bolt, hex head, 5/16"-18 x 1", 304 Stainless Steel	8	5
8	516FW-304SS	Washer, flat, 5/16", 304 Stainless Steel	16	9
9	516HN-304SS	Nut, hex, 5/16"-18, 304 Stainless Steel	8	5
10	516LW-304SS	Washer, lock, 5/16", 304 Stainless Steel	8	5
11	FB-304SS	Foot bracket/Base Bracket, 304 Stainless Steel		2
12	RB-304SS	Retaining/Inspection bar, 304 Stainless Steel		1
13	SA4412-304SS	Stiffening Angle, 1"x 2" x Cover Width (44 1/2"), 12ga 304SS	2	

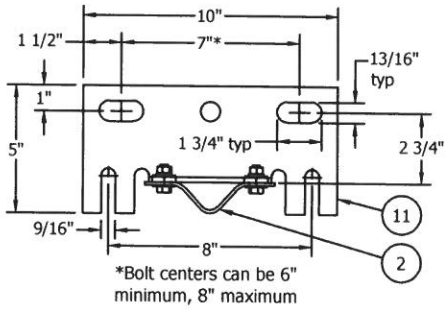


Hardware to mount foot brackets to conveyor is normally provided by other, but is available as an option.

For Details and Installation Procedure, see Page CHFG-2







*Bolt centers can be 6" minimum, 8" maximum

Section A–A

Cover & Eyebolt not shown for clarity

SPECIFICATIONS					
ASSEMBLY NO.	BELT WIDTH	"A"	"B"	"C"	WT in LB
CHFG18GA40	18"	16-1/4"	19-1/4"	27"	33
CHFG20GA40	20"	17-1/4"	20"	29"	34
CHFG24GA40	24"	19-1/4"	21-7/8"	33"	37
CHFG30GA40	30"	22-1/4"	24"	39"	40
CHFG36GA40	36	25-1/4"	26-1/8"	45"	44
CHFG42GA40	42"	28-1/4"	28-1/4"	51"	48
CHFG48GA40	48"	31-1/4"	30-3/8"	57"	51
CHFG54GA40	54"	34-1/4"	32-1/2"	63"	55
CHFG60GA40	60"	37-1/4"	34-5/8"	69"	59
CHFG72GA40	72"	43-1/4"	39"	81"	63
CHFG84GA40	84"	49-1/4"	43"	93"	67

** 6" is standard tangent, other available upon request.

Material:
Standard CHFG covers are Fiberglass, .090" thickness, white.
Standard Bands are 12 ga 304 Stainless Steel.
Molded Fiberglass Bands, 1/4" nominal thickness, are available as an option.

DESIGN NOTE
Standard CHFG Series Covers are designed for conveyor frames with outside dimensions of belt width +12".
Eye bolts may hit conveyor structure when top chords are "T" or "W" structural shapes. This should be verified before ordering.
Special brackets are available for these circumstances.

RPS Engineering, Inc. reserves the right to alter designs of its conveyor cover without notice unless certified drawings are supplied.

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