
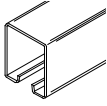

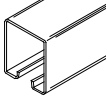

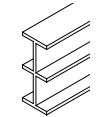

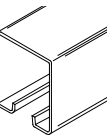

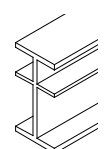

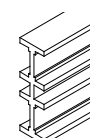

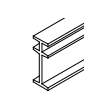

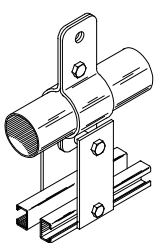





CURTAIN TRACK SELECTION GUIDE

Model No.	Cross Section	Isometric View	Recommended Working Load ^{1,2}	Carrier Length ³	Estimated Shipping Weight	Usage	Page No.
			per carrier	inches	lb/ft		
101 116	 1-3/4"W x 2"H		3 5	1-3/16 1-5/16	2.5	Standard-duty straight track for curtains up to 40 feet. Can be walk-along or cord operated.	6-9
201 221 228	 1-3/4"W x 2"H		5 4 10	1-3/4 1-1/4 1-3/4	3	Black finished, medium-duty straight track for curtains up to 48 feet. Can be walk-along or cord operated.	10-15
301 316 328	 1"W x 2-1/2"H		5 7 7	1-5/16	2	Standard-duty curved or straight track for curtains up to 60 feet. Can be walk-along or cord operated. Cord operated tracks cannot be reverse curved. Ideal for TV studios or stage use.	16-23
401 416 418 428	 2-5/8"W x 2-3/4"H		6 25 25 15	1-5/8 2-1/16 2-1/16 2-1/16	4.5	Model 401 straight track for curtains up to 60 feet. Can be walk-along or cord operated. Model Nos. 416, 418, and 428 for curtains of almost any length.	24-33
501 516	 1-5/8"W x 3-1/4"H		25 25	2-1/4	4.5	Heavy-duty curved or straight track for curtains of almost any length. Can be reverse curved for walk-along or cord operated use. Ideal for TV studios, stage, and auditorium dividers.	34-38
601 616 628	 1"W x 3-3/8"H		5 7 7	1-5/16	2	Medium-duty curved or straight track for curtains up to 60 feet. Walk-along or cord operated. Cord operated tracks cannot be reversed curved.	39-43
701 716 728	 5/8"W x 1-11/16"H		2 4 4	1-1/16	1	Light-duty curved or straight track for curtains up to 40 feet. Walk-along use only.	44-45
818			25	2-1/8	9	Heavy-duty curved or straight open style track for TV studios. Available in single and double configurations for walk-along use only.	46
1018	 3-1/4"W x 9-3/8"H		25	2-1/4	10	Heavy-duty, exceptionally quiet open style straight track for professional theatre and TV studio use. Cord operated only.	47-49

1. Recommended working load per carrier for cord operated tracks. Total weight of drapery, track length, and model used will determine ease of operation of the track system. Curtain weight per carrier is based upon a typical spacing of 12" on center across the top of the curtain.
2. Hanger spacing dependent on carrier load, see page 4 for recommendations. Track hangers must be supported from overhead structure by appropriate means.
3. Per carrier. To determine stacking space, see explanation page 3.



ORDERING COMPLETE TRACKS

Individual bi-parting, one-way, or walk-along curtain tracks can be ordered on an even per-foot basis and supplied with components for normal operation. Model numbers for COMPLETE tracks are indicated by the model number of the carrier supplied with a suffix to further describe construction of the track. Note: COMPLETE tracks do not include hardware to attach hangers or floor block to building structure.

Example: Model No. 401S COMPLETE indicates use of No. 401 Single Carrier, No. 402 Master Carrier, and No. 410S steel track.

If a 40 foot No. 401S COMPLETE curtain track is required for manually operated bi-parting curtains 20 feet high, you would order the following:

40 feet No. 401S COMPLETE, 20 feet high.

Components for this track would include the following:

- 40 each No. 401 Single Carrier
- 1 pair No. 402 Master Carrier
- 1 each No. 403 Double End Pulley
- 1 each No. 404 Single End Pulley
- 1 set No. 405 Overlap Clamp
- 8 pair No. 406 Clamp Hanger
- 1 each No. 408 Adjustable Floor Block
- 1 pair No. 409 End Stop & Cord Support
- 2 pieces No. 410S-20 Track
- 120 feet No. 414 Operating Line
(Quantity of line = 2 times track length + 2 times curtain height)

Note: Bi-parting curtain tracks are usually installed with a center overlap of 2 feet. Thus, a 40 foot COMPLETE track would have an overall length of 38 feet once installed.

SUFFIX LEGEND:

- A- Aluminum
- B- Black
- C- Curved
- P- Premier
- S- Steel (or Straight for 500 Series)
- W- Walk-Along

DETERMINING STACKING SPACE

Stacking space required for any curtain is determined by many variables. These include fabric type, added fullness, and linings, if any. The carrier length will most often be the governing factor on light to medium weight curtains. Heavyweight and lined curtains require additional stacking space to accommodate the density of the fabric(s). A stacking space estimator is available on our website, www.hhspecialties.com, under the resources tab.

To determine minimum stacking space required for the hardware:

1. Length of master carrier
(from dimensioned drawings in each track section)
2. Length of end pulley
(from dimensioned drawings in each track section)
3. Total carrier length.
(qty. of carriers x carrier length from chart on page 2)
4. Total of Item Nos. 1-3 and add 10%.

EXAMPLE

Model 401S COMPLETE x 40 feet, bi-parting traveler. Estimate stacking space required for each half of track.

1. Length of Master Carrier: 4-3/8"
2. Length of End Pulley: 4-1/4"
3. Length of Each Carrier: 1-5/8"
20 carriers X 1-5/8" = 32-1/2"
4. Total: 4-3/8" + 4-1/4" + 32-1/2" = 41-1/8". Add 10% = 45-1/4" total stacking space per each half.

The 10% additional value calculated into the stacking space is considered an industry average. The value computed is the stacking space required for the track hardware. Heavy curtains and curtains with linings may require additional stacking space for the curtains themselves. Allowances should be made for those conditions. Consult your curtain supplier for additional information.

Note: The addition of rear fold guides (Series 100, 200, and 400) requires an extra 1/4" stacking space per carrier.



Curtain Weight Per Carrier (pounds)	RECOMMENDED TRACK HANGER SPACING (in Feet)										
	110A	110S	210B	310	410A	410S	510	610	710	810	1010
2	6	8	7.5	4.5	8	10	6	5	2.5	4	6
3	6	8	7.5	4	8	10	6	5	2	4	6
4	5.5	6.5	6.5	3.8	8	10	6	4.5	2	4	6
5	5	5.5	6.5	3.5	8	10	6	4.3	-	4	6
6	-	-	6.5	3.3	8	10	6	4.25	-	4	6
7	-	-	6	3.3	7	8	6	4	-	4	6
10	-	-	4	-	7	8	5.75	-	-	4	6
15	-	-	-	-	5.5	5.5	5	-	-	4	6
20	-	-	-	-	4	4	3.8	-	-	4	6
25	-	-	-	-	3.25	3.5	3.1	-	-	4	6

NOTES TO THE VALUES LISTED ON THIS CHART

- Note:** Recommended spacing of hangers is based upon the worst-case condition; curtains in the open or storage position based upon the various curtain weight per track listed. In this condition, the load subjected on the track and its associated hanging hardware is substantial. It is the customer's responsibility to determine the weight of the curtain to be supported by our track and determine the proper support spacing required. For curved tracks, additional hangers are required to stabilize the tracks. Consult the factory for curved applications.
- Curtain weight per carrier is based upon typical carrier spacing of 12" on center across the top of the curtain.
- The analysis of the curtain track and components presented in this chart is based upon generally accepted principles of structural engineering and the following specific analysis design guides:
 Aluminum Association, Aluminum Design Manual, 2005.
 American Iron & Steel Institute, North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition.
 All calculations are based upon a continuously supported span. Deflection criteria is based upon span/240.
- The values listed are based upon applications involving curtains only. Scenery carriers are available for several of our tracks. Consult the factory for your specific application when using scenery carriers. Scenery carriers may be found on page 54. **WARNING:** Do not use curtain track master carriers for supporting scenery.
- Recommended hanger spacing for 300 and 600 Series Tracks is based upon use of 306 or 606 Clamp Hanger. Consult factory when using ceiling hangers.
- Direct ceiling attachment of tracks (100, 200 and 400 Series) has not been evaluated as the support structure, method of attachment, and attachment requirements may vary widely from project to project. A qualified person should be consulted for this application.
- All recommendations stated are presented in good faith and based upon generally accepted engineering principles. The user, however, is cautioned that H & H Specialties Inc. cannot guarantee the accuracy of the data presented in this table for every situation. It is the customer's responsibility to determine the suitability of H & H Specialties' products for any given application, taking into account the specific requirements, the environment of use, and any possible peculiarities of the application.

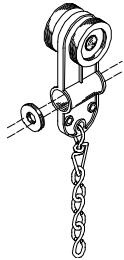
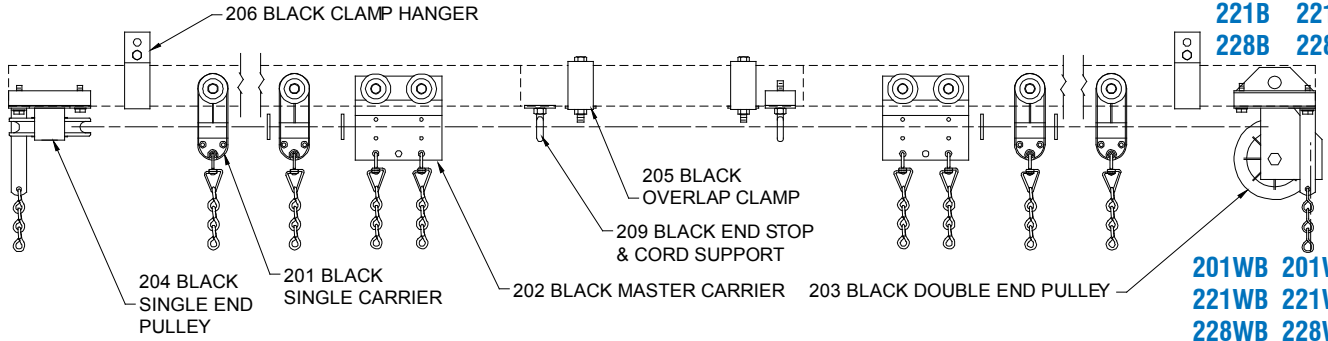


200 SERIES BLACK MEDIUM-DUTY STRAIGHT TRACK

COMPLETE TRACK MODEL NUMBERS

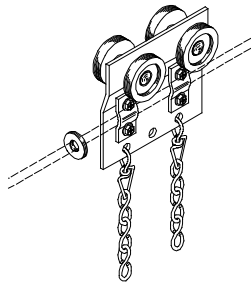
201B 201S
221B 221S
228B 228S

201WB 201WS
221WB 221WS
228WB 228WS



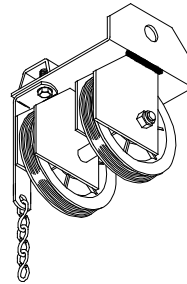
No. 201 BLACK SINGLE CARRIER

2 polyethylene wheels riveted to black Super Tough nylon body with shielded ball bearing. Heavy-duty hook, swivel, and trim chain for curtain attachment. Supplied with 1 No. 231 rubber bumper.



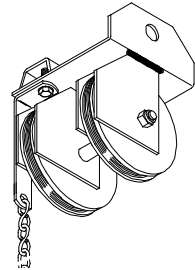
No. 202 BLACK MASTER CARRIER

4 polyethylene wheels riveted to steel body with 2 shielded ball bearings. 2 clamps provided for anchoring operating line or cable. Supplied with 1 No. 231 rubber bumper. 1 pair required for overlapping tracks.



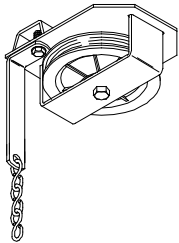
No. 203 BLACK DOUBLE END PULLEY

4" diameter Nylatron GS sheaves with shielded ball bearings. Steel housing clamps to underside of track. Chain bracket for securing offstage curtain edge.



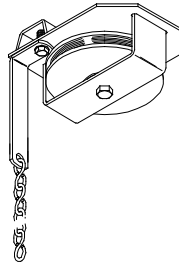
No. 203M BLACK DOUBLE END PULLEY

Heavy-duty 4" diameter Nylatron GSM sheaves with sealed precision ball bearings. Steel housing clamps to underside of track. Chain bracket for securing offstage curtain edge. 3/16" groove for use with motorized tracks.



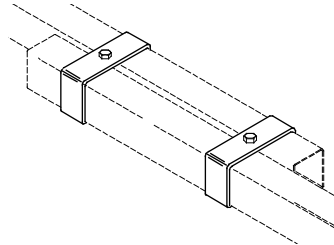
No. 204 BLACK SINGLE END PULLEY

4" diameter Nylatron GS sheave with shielded ball bearing. Steel housing clamps to underside of track. Chain bracket for securing offstage curtain edge.



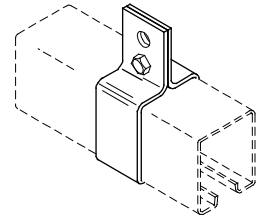
No. 204M BLACK SINGLE END PULLEY

Heavy-duty 4" diameter Nylatron GSM sheave with sealed precision ball bearings. Steel housing clamps to underside of track. Chain bracket for securing offstage curtain edge. 3/16" groove for use with motorized tracks.



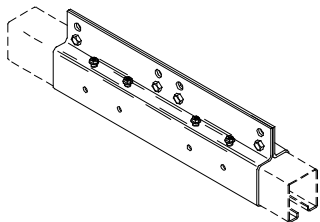
No. 205 BLACK OVERLAP CLAMP

Formed steel clamps to align track at overlap. 1 set pictured.



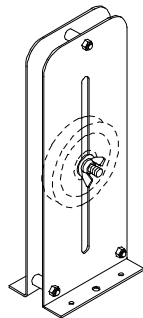
No. 206 BLACK CLAMP HANGER

Formed steel brackets clamp to track. Adjusts to any position. Suspend track with welded chain or wire rope. 1 pair pictured.



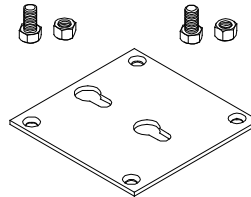
No. 207 BLACK SPLICE

Formed steel brackets align and lock track sections together. 1 pair pictured.



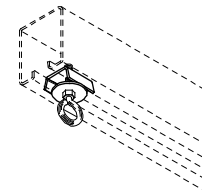
No. 208 BLACK ADJUSTABLE FLOOR BLOCK

4" diameter Nylatron GS sheave with shielded ball bearing in steel housing. 9" vertical adjustment.



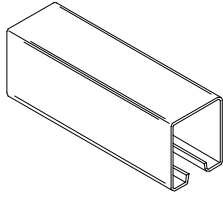
No. 208DK BLACK DETACHABLE FLOOR BLOCK KIT

7 gauge steel plate with hardware for use with No. 208 Adjustable Floor Block for quick release.



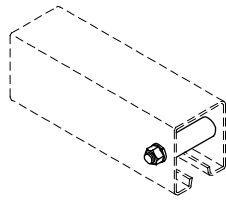
No. 209 BLACK END STOP & CORD SUPPORT

Steel clamp with eye to support operating line and prevent carriers from traveling beyond desired location. 1 pair required for overlapping tracks. **DO NOT USE WITH PIVOT DEVICES.**



No. 210B BLACK TRACK

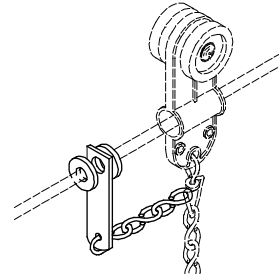
16 gauge galvanized steel, roll-formed to 1-3/4" wide x 2" high with semi-gloss black powder coat finish. 16', 20' and 24' stock lengths.



END STOP

Bolt with horizontal pipe spacer to prevent carriers from traveling beyond desired location. For use with walk-along tracks and tracks with pivot devices.

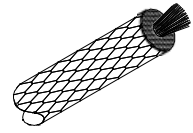
No. 211 - Black finish.



BLACK REAR FOLD GUIDE

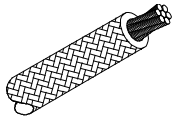
For use with No. 201 carriers. Allows curtain to fold at offstage edges. Supplied with 1 rubber bumper.

No. 212 - for use with 3/8" operating line.
No. 213 - for use with 3/16" operating cable.



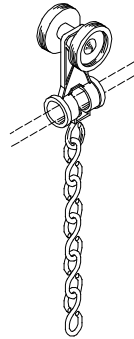
No. 214 BLACK OPERATING LINE

3/8" diameter black polyester braided over Dyneema core for manual operation.



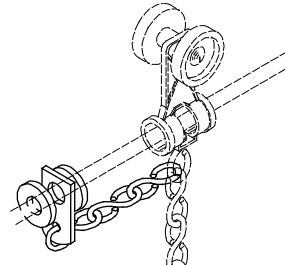
No. 215 BLACK OPERATING CABLE

3/16" diameter black polyester jacket braided over 3/32" specialty cord wire rope. For use with motorized tracks.



No. 221 BLACK SINGLE CARRIER

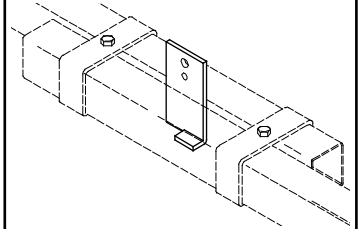
2 polyethylene wheels riveted to black Super Tough nylon body having free turning hook and trim chain for curtain attachment.



BLACK REAR FOLD GUIDE

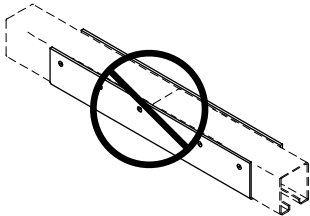
For use with No. 221 carriers. Allows curtain to fold at offstage edges. Supplied with 1 rubber bumper.

No. 222 - for use with 3/8" operating line.
No. 223 - for use with 3/16" operating cable.



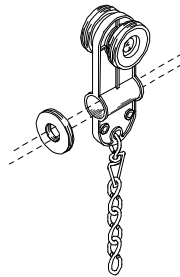
No. 226 BLACK CENTER PIPE SUPPORT

Formed steel bracket used to support tracks at overlap.



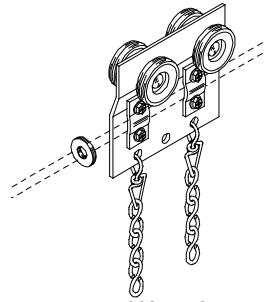
CEILING SPLICE NOT AVAILABLE

Note: Ceiling splice cannot be used with 200 Series Carriers and Pivot Devices due to interference with the wheels



No. 228 BLACK SINGLE CARRIER

2 urethane-tired wheels riveted to black Super Tough nylon body with shielded ball bearing. Heavy-duty hook, swivel, and trim chain for curtain attachment. Supplied with 1 rubber bumper.



No. 229 BLACK MASTER CARRIER

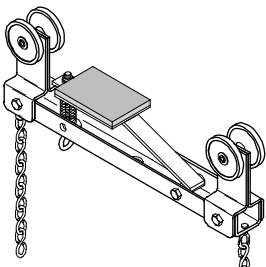
4 urethane-tired wheels riveted to steel body with 2 shielded ball bearings. 2 clamps provided for anchoring operating line or cable. Supplied with 1 rubber bumper. 1 pair required for overlapping tracks.



ROUND RUBBER BUMPER

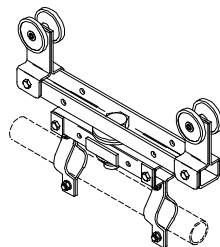
1/8" neoprene bumper placed between carriers on operating line to reduce noise.

No. 230 - for use with 3/16" operating cable.
No. 231 - for use with 3/8" operating line.



No. 237 BLACK LOCKING MASTER CARRIER

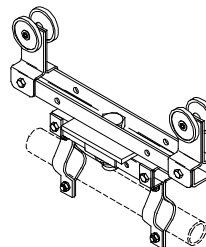
Heavy steel construction with nylon wheels and brake to keep master carrier in desired location. Equipped with swivels and trim chains for curtain attachment. Note: All carriers used with this device must have a trim chain of 6" total length.



No. 20 BLACK PIVOT DEVICE

Heavy steel construction with nylon wheels. Supplied with brackets for 1-3/8" O.D. pipe or tubing (6' max. recommended length). Allows masking draperies to be rotated to any angle.

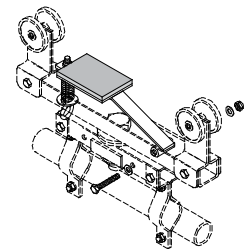
Working Load Limit: 60 pounds.



No. 20X BLACK INDEXING PIVOT DEVICE

Pivot device with special plate to index rotation at 22-1/2 degree increments. Supplied with brackets for 1-3/8" O.D. pipe or tubing (6' max. recommended length).

Working Load Limit: 60 pounds.



No. 20BK BLACK BRAKE KIT

Spring equipped arm with neoprene pad. Add to pivot device to prevent undesired movement along track.



200 SERIES COMPLETE BLACK TRACK COMPONENT GUIDE

PART No.	DESCRIPTION	201B	221B	228B	201S**	221S**	228S**
201	Black Single Carrier	•			•		
202	Black Master Carrier	•	•		•	•	
203	Black Double End Pulley	•	•	•			
204	Black Single End Pulley	•	•	•			
205	Black Overlap Clamp	•	•	•			
206	Black Clamp Hanger	•	•	•			
207*	Black Splice	•	•	•			
208	Black Adjustable Floor Block	•	•	•	•	•	•
209	Black End Stop & Cord Support	•	•	•			
210B*	Black Track	•	•	•			
214	3/8" Operating Line	•	•	•	•	•	•
221	Black Single Carrier		•			•	
228	Black Urethane Single Carrier			•			•
229	Black Urethane Master Carrier			•			•
110S*	Track				•	•	•
403	Double End Pulley				•	•	•
404	Single End Pulley				•	•	•
105	Overlap Clamp				•	•	•
106	Clamp Hanger				•	•	•
107	Splice*				•	•	•
409	End Stop & Cord Support				•	•	•

* Track lengths and splices supplied as required from stock sizes. Ceiling splices not available due to interference with carrier wheels.

** Components in Models 201S , 221S and 228S are a mixture of black, zinc plated, and galvanized finish.

200 SERIES COMPLETE BLACK WALK-ALONG TRACK COMPONENT GUIDE

PART No.	DESCRIPTION	201WB	221WB	228WB	201WS**	221WS**	228WS**
201	Black Single Carrier	•			•		
202	Black Master Carrier	•	•		•	•	
206	Black Clamp Hanger	•	•	•			
207*	Black Splice	•	•	•			
209	Black End Stop & Cord Support	•	•	•			
210B*	Black Track	•	•	•			
221	Black Single Carrier		•			•	
228	Black Urethane Single Carrier			•			•
229	Black Urethane Master Carrier			•			•
110S*	Track				•	•	•
106	Clamp Hanger				•	•	•
107	Splice*				•	•	•
409	End Stop & Cord Support				•	•	•

* Track lengths and splices supplied as required from stock sizes. Ceiling splices not available due to interference with carrier wheels.

** Components in Models 201WS , 221WS and 228WS are a mixture of black, zinc plated, and galvanized finish.

GENERAL SPECIFICATIONS: BLACK MEDIUM-DUTY STRAIGHT TRACK

Provide **Model 201WB** as manufactured by H & H Specialties Inc., South El Monte, CA.

Track shall be 16 gauge galvanized steel, roll-formed to 1-3/4" wide X 2" high with continuous slot in bottom. Provide unspliced in lengths up to 24'.

Suspend track with two-piece clamp hanger formed from 11 gauge steel. Install end stop with cord support at each track end. Where lengths exceed 24', connect tracks with 12" long, two-piece splicing clamp of 12 gauge steel.

Provide single carriers, spaced on 12" centers, constructed of two polyethylene wheels fastened parallel to shielded ball bearing carrier body and supplied with heavy-duty hook, swivel eye and trim chain for attachment of curtain. Black Super Tough nylon shall be molded around shielded and greased ball bearing to form carrier body.

Master carriers shall be 4-wheel assemblies with bodies formed from 11 gauge steel with press-fit shielded ball bearings. Supply each master carrier with two heavy-duty hooks, swivel eyes and trim chains for attachment of leading edge of curtain.

Track shall be finished with a semi-gloss black powder coat. All other steel components shall be black oxide finished.

GENERAL SPECIFICATIONS: (Continued)

Provide **Model 201B** as manufactured by H & H Specialties Inc., South El Monte, CA.

Track shall be 16 gauge galvanized steel, roll-formed to 1-3/4" wide X 2" high with continuous slot in bottom. Provide unspliced in lengths up to 24'.

Suspend track with two-piece clamp hanger formed from 11 gauge steel. Provide 2' overlap at center, rigidly separated by two overlap clamps. Install end stop with cord support at each track end. Where lengths exceed 24', connect tracks with 12" long, two-piece splicing clamp of 12 gauge steel.

Provide single carriers, spaced on 12" centers, constructed of two polyethylene wheels fastened parallel to shielded ball bearing carrier body and supplied with heavy-duty hook, swivel eye and trim chain for attachment of curtain. Black Super Tough nylon shall be molded around shielded and greased ball bearing to form carrier body. Install round neoprene bumper between each carrier on operating line to reduce noise.

Master carriers shall be 4-wheel assemblies with bodies formed from 11 gauge steel with press-fit shielded ball bearings. Connect to operating line with two formed steel cord clamps attached to each body. Supply each master carrier with two heavy-duty hooks, swivel eyes and trim chains for attachment of leading edge of curtain.

Single and double end pulleys shall clamp securely to the underside of the track channel and shall contain 4" diameter sheaves enclosed in steel housings to prevent operating line from escaping the grooves. Sheaves shall be Nylatron GS molded around shielded and greased ball bearings and grooved to accommodate up to 3/8" operating line.

Provide floor block in 12 gauge steel housing containing 4" Nylatron GS shielded ball bearing sheave. Sheave axle shall lock at any point within 9" vertical slots to allow tension adjustment of operating line.

Black operating line shall be 3/8" diameter, stretch-resistant rope with spun polyester outer jacket braided over Dyneema core.

Track shall be finished with a semi-gloss black powder coat. All other steel components shall be black oxide finished.

Provide **Model 228B** as manufactured by H & H Specialties Inc., South El Monte, CA.

Track shall be 16 gauge galvanized steel, roll-formed to 1-3/4" wide X 2" high with continuous slot in bottom. Provide unspliced in lengths up to 24'.

Suspend track with two-piece clamp hanger formed from 11 gauge steel. Provide 2' overlap at center, rigidly separated by two overlap clamps. Install end stop with cord support at each track end. Where lengths exceed 24', connect tracks with 12" long, two-piece splicing clamp of 12 gauge steel.

Provide single carriers, spaced on 12" centers, constructed of two urethane-tired wheels fastened parallel to shielded ball bearing carrier body and supplied with heavy-duty hook, swivel eye and trim chain for attachment of curtain. Black Super Tough nylon shall be molded around shielded and greased ball bearing to form carrier body. Install round neoprene bumper between each carrier on operating line to reduce noise.

Master carriers shall be 4-wheel assemblies with bodies formed from 11 gauge steel with press-fit shielded ball bearings. Connect to operating line with two formed steel cord clamps attached to each body. Supply each master carrier with two heavy-duty hooks, swivel eyes and trim chains for attachment of leading edge of curtain.

Single and double end pulleys shall clamp securely to the underside of the track channel and shall contain 4" diameter sheaves enclosed in steel housings to prevent operating line from escaping the grooves. Sheaves shall be Nylatron GS molded around shielded and greased ball bearings and grooved to accommodate up to 3/8" operating line.

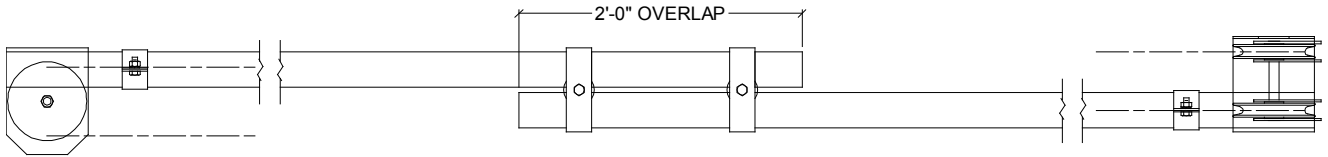
Provide floor block in 12 gauge steel housing containing 4" Nylatron GS shielded ball bearing sheave. Sheave axle shall lock at any point within 9" vertical slots to allow tension adjustment of operating line.

Black operating line shall be 3/8" diameter, stretch-resistant rope with spun polyester outer jacket braided over Dyneema core.

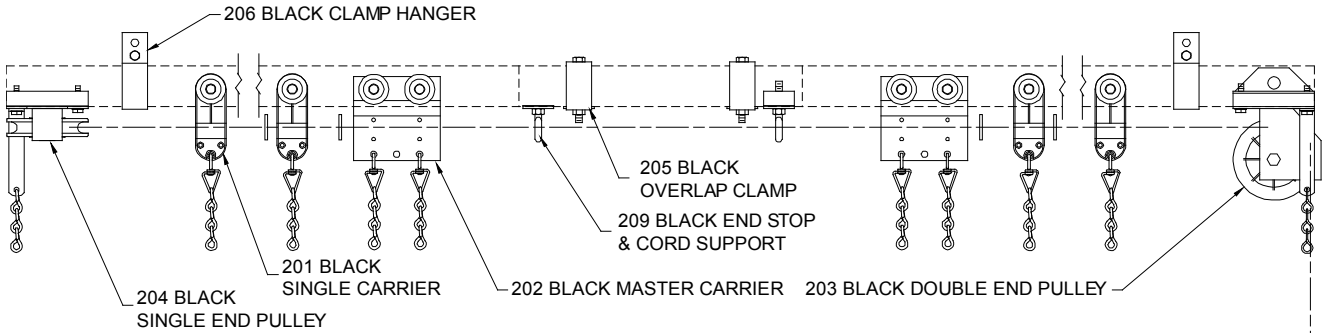
Track shall be finished with a semi-gloss black powder coat. All other steel components shall be black oxide finished.



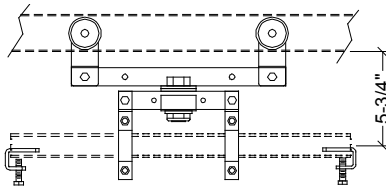
201B SERIES BLACK TRACK



PLAN - 201B COMPLETE BLACK TRACK



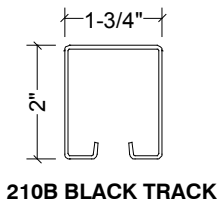
ELEVATION - 201B COMPLETE BLACK TRACK



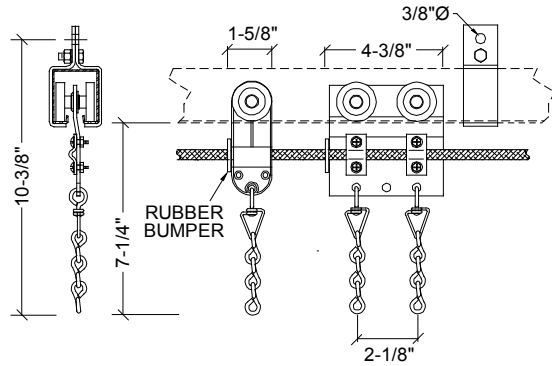
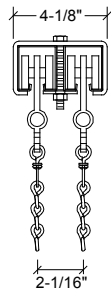
20 BLACK PIVOT DEVICE

214 BLACK OPERATING LINE

208 BLACK ADJUSTABLE FLOOR BLOCK

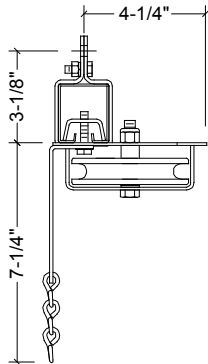


210B BLACK TRACK

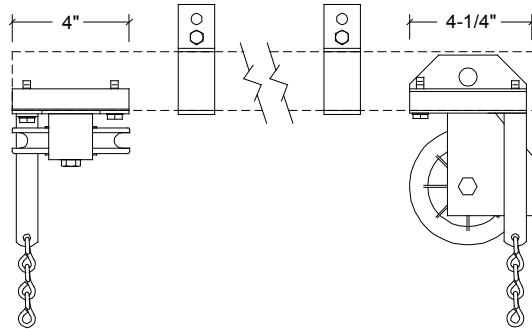


TRACKS AT CENTER OVERLAP

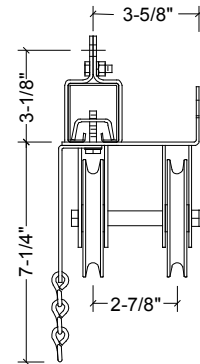
201 BLACK SINGLE CARRIER AND 202 BLACK MASTER CARRIER



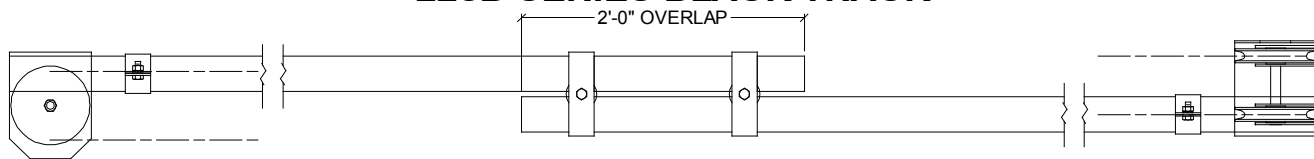
204 BLACK SINGLE END PULLEY



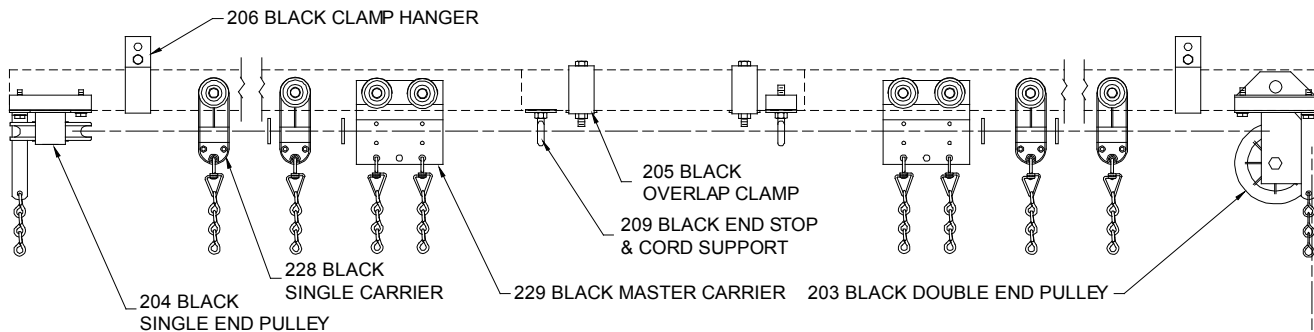
203 BLACK DOUBLE END PULLEY



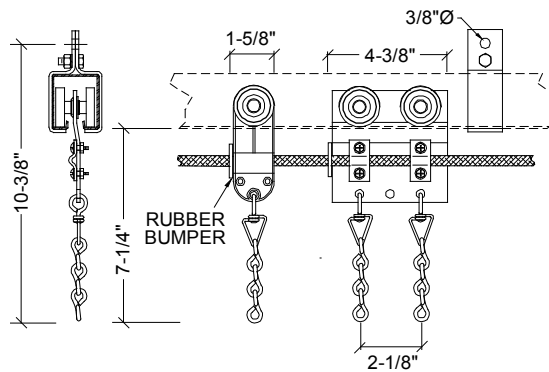
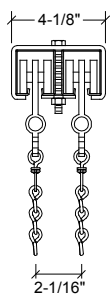
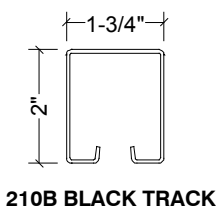
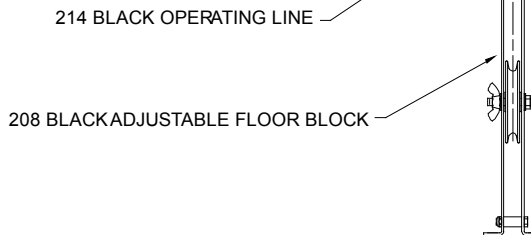
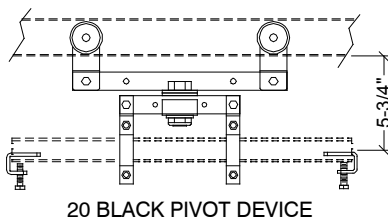
228B SERIES BLACK TRACK



PLAN - 228B COMPLETE BLACK TRACK

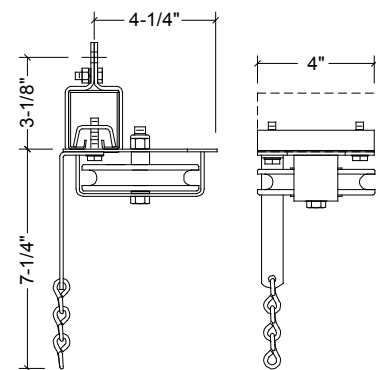


ELEVATION - 228B COMPLETE BLACK TRACK

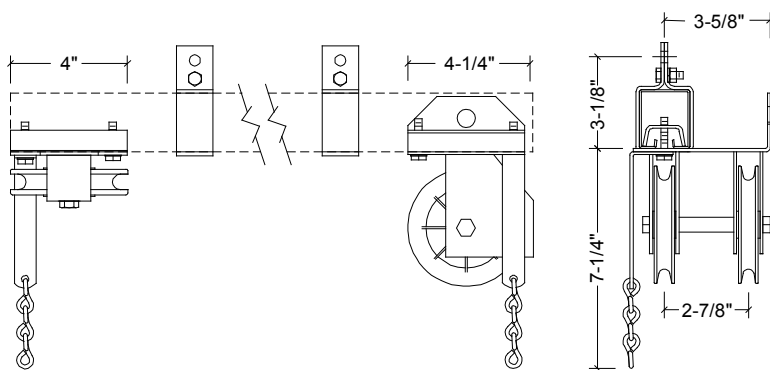


TRACKS AT CENTER OVERLAP

228 BLACK SINGLE CARRIER AND 229 BLACK MASTER CARRIER



204 BLACK SINGLE END PULLEY



203 BLACK DOUBLE END PULLEY