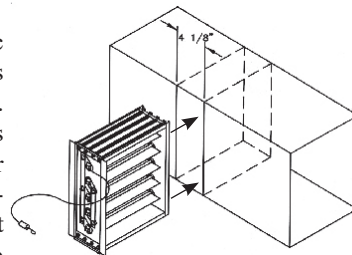


SUBMITTAL RECORD

JOB _____
 LOCATION _____
 SUBMITTED TO _____
 SUBMITTAL PREPARED BY _____
 APPROVED BY _____
 DATE _____

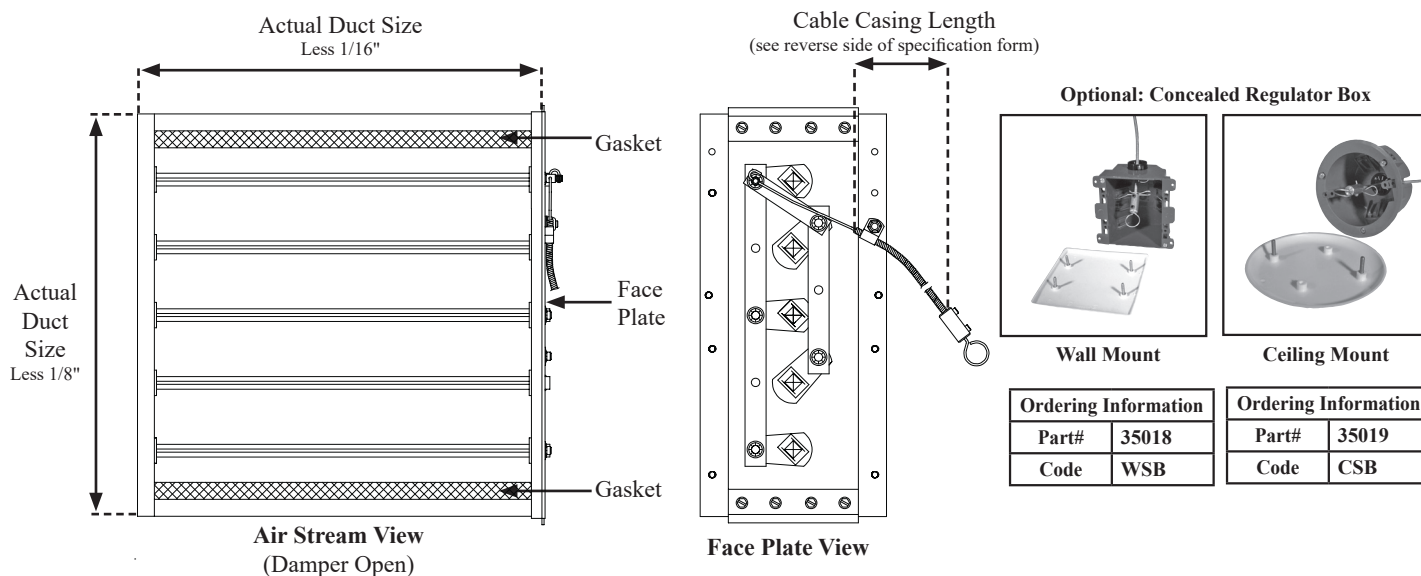
**Submittal Form**
**Rectangular Opposed Blade
 External Cable Operated Damper**
DESCRIPTION:

Duct systems are designed to supply a specific volume of air to a space. However, air flow adjustment is sometimes required to achieve original design parameters. Installation of a cable operated balancing damper allows the balancing contractor a convenient way to adjust air volume from a more accessible location. The cable operated damper is inserted through a slot in the side of the duct upstream of the diffuser. The adjustment cable is routed to an appropriate area. Once the air volume is satisfactory, the cable position is locked with a set screw.

**SUGGESTED SPECIFICATIONS:**

Rectangular Opposed Blade External Cable Operated Dampers shall be Duro Dyne XCODS type dampers. Damper blades and frames shall be manufactured of extruded aluminum. Cable case shall be galvanized steel; solid core control wire shall be stainless steel. Installation shall be as described in the Duro Dyne cable operated damper instructions. Sizes and locations shall be as indicated on the mechanical drawings.

External Cable Operated Damper



Damper Specifications

Damper Component	Material	Width	Depth
Frame	Extruded Aluminum	4-1/16"	1/2"
Face Plate	Extruded Aluminum	5-9/16" (includes two 3/4" flanges)	5/16"
Blade	Extruded Aluminum	2-3/4"	3/32"
Gasket (on even heights only)	Vinyl Nitrile	3/4"	1/2"
Bushings for blades are nylon 5/8" outside diameter with a 3/8" square hole			
All blade linkage is 16 gage galvanized steel. Damper blades are 22 gage galvanized steel.			

Cable Specifications

Case O.D.	Case I.D.	Casing Material	Solid Core Wire Size
.187	.080	Galvanized Steel	.055 Stainless Steel

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Submittal Form Rectangular Opposed Blade External Cable Operated Damper

Item#	Code	Size	Cable Length
55276	XCODS080403	8x4	3ft
55277	XCODS080405		5ft
55278	XCODS080408		8ft
55279	XCODS080410		10ft
55280	XCODS080415		15ft
55281	XCODS100403	10x4	3ft
55282	XCODS100405		5ft
55283	XCODS100408		8ft
55284	XCODS100410		10ft
55285	XCODS100415		15ft
55286	XCODS120403	12x4	3ft
55287	XCODS120405		5ft
55288	XCODS120408		8ft
55289	XCODS120410		10ft
55290	XCODS120415		15ft
55291	XCODS140403	14x4	3ft
55292	XCODS140405		5ft
55293	XCODS140408		8ft
55294	XCODS140410		10ft
55295	XCODS140415		15ft
55001	XCODS060603	6x6	3ft
55002	XCODS060605		5ft
55003	XCODS060608		8ft
55004	XCODS060610		10ft
55005	XCODS060615		15ft
55006	XCODS080603	8x6	3ft
55007	XCODS080605		5ft
55008	XCODS080608		8ft
55009	XCODS080610		10ft
55010	XCODS080615		15ft
55011	XCODS100603	10x6	3ft
55012	XCODS100605		5ft
55013	XCODS100608		8ft
55014	XCODS100610		10ft
55015	XCODS100615		15ft
55016	XCODS120603	12x6	3ft
55017	XCODS120605		5ft
55018	XCODS120608		8ft
55019	XCODS120610		10ft
55020	XCODS120615		15ft
55021	XCODS140603	14x6	3ft
55022	XCODS140605		5ft
55023	XCODS140608		8ft
55024	XCODS140610		10ft
55025	XCODS140615		15ft
55026	XCODS160603	16x6	3ft
55027	XCODS160605		5ft
55028	XCODS160608		8ft
55029	XCODS160610		10ft
55030	XCODS160615		15ft
55031	XCODS180603	18x6	3ft
55032	XCODS180605		5ft
55033	XCODS180608		8ft
55034	XCODS180610		10ft
55035	XCODS180615		15ft

Item#	Code	Size	Cable Length
55036	XCODS200603	20x6	3ft
55037	XCODS200605		5ft
55038	XCODS200608		8ft
55039	XCODS200610		10ft
55040	XCODS200615		15ft
55041	XCODS220603	22x6	3ft
55042	XCODS220605		5ft
55043	XCODS220608		8ft
55044	XCODS220610		10ft
55045	XCODS220615		15ft
55046	XCODS240603	24x6	3ft
55047	XCODS240605		5ft
55048	XCODS240608		8ft
55049	XCODS240610		10ft
55050	XCODS240615		15ft
55051	XCODS080803	8x8	3ft
55052	XCODS080805		5ft
55053	XCODS080808		8ft
55054	XCODS080810		10ft
55055	XCODS080815		15ft
55056	XCODS100803	10x8	3ft
55057	XCODS100805		5ft
55058	XCODS100808		8ft
55059	XCODS100810		10ft
55060	XCODS100815		15ft
55061	XCODS120803	12x8	3ft
55062	XCODS120805		5ft
55063	XCODS120808		8ft
55064	XCODS120810		10ft
55065	XCODS120815		15ft
55066	XCODS140803	14x8	3ft
55067	XCODS140805		5ft
55068	XCODS140808		8ft
55069	XCODS140810		10ft
55070	XCODS140815		15ft
55071	XCODS160803	16x8	3ft
55072	XCODS160805		5ft
55073	XCODS160808		8ft
55074	XCODS160810		10ft
55075	XCODS160815		15ft
55076	XCODS180803	18x8	3ft
55077	XCODS180805		5ft
55078	XCODS180808		8ft
55079	XCODS180810		10ft
55080	XCODS180815		15ft
55081	XCODS200803	20x8	3ft
55082	XCODS200805		5ft
55083	XCODS200808		8ft
55084	XCODS200810		10ft
55085	XCODS200815		15ft
55086	XCODS220803	22x8	3ft
55087	XCODS220805		5ft
55088	XCODS220808		8ft
55089	XCODS220810		10ft
55090	XCODS220815		15ft

Item#	Code	Size	Cable Length
55091	XCODS240803	24x8	3ft
55092	XCODS240805		5ft
55093	XCODS240808		8ft
55094	XCODS240810		10ft
55095	XCODS240815		15ft
55096	XCODS101003	10x10	3ft
55097	XCODS101005		5ft
55098	XCODS101008		8ft
55099	XCODS101010		10ft
55100	XCODS101015		15ft
55101	XCODS121003	12x10	3ft
55102	XCODS121005		5ft
55103	XCODS121008		8ft
55104	XCODS121010		10ft
55105	XCODS121015		15ft
55106	XCODS141003	14x10	3ft
55107	XCODS141005		5ft
55108	XCODS141008		8ft
55109	XCODS141010		10ft
55110	XCODS141015		15ft
55111	XCODS161003	16x10	3ft
55112	XCODS161005		5ft
55113	XCODS161008		8ft
55114	XCODS161010		10ft
55115	XCODS161015		15ft
55116	XCODS181003	18x10	3ft
55117	XCODS181005		5ft
55118	XCODS181008		8ft
55119	XCODS181010		10ft
55120	XCODS181015		15ft
55121	XCODS201003	20x10	3ft
55122	XCODS201005		5ft
55123	XCODS201008		8ft
55124	XCODS201010		10ft
55125	XCODS201015		15ft
55126	XCODS221003	22x10	3ft
55127	XCODS221005		5ft
55128	XCODS221008		8ft
55129	XCODS221010		10ft
55130	XCODS221015		15ft
55131	XCODS241003	24x10	3ft
55132	XCODS241005		5ft
55133	XCODS241008		8ft
55134	XCODS241010		10ft
55135	XCODS241015		15ft
55136	XCODS121203	12x12	3ft
55137	XCODS121205		5ft
55138	XCODS121208		8ft
55139	XCODS121210		10ft
55140	XCODS121215		15ft
55141	XCODS141203	14x12	3ft
55142	XCODS141205		5ft
55143	XCODS141208		8ft
55144	XCODS141210		10ft
55145	XCODS141215		15ft

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Item#	Code	Size	Cable Length
55146	XCODS161203	16x12	3ft
55147	XCODS161205		5ft
55148	XCODS161208		8ft
55149	XCODS161210		10ft
55150	XCODS161215		15ft
55151	XCODS181203	18x12	3ft
55152	XCODS181205		5ft
55153	XCODS181208		8ft
55154	XCODS181210		10ft
55155	XCODS181215		15ft
55156	XCODS201203	20x12	3ft
55157	XCODS201205		5ft
55158	XCODS201208		8ft
55159	XCODS201210		10ft
55160	XCODS201215		15ft
55161	XCODS221203	22x12	3ft
55162	XCODS221205		5ft
55163	XCODS221208		8ft
55164	XCODS221210		10ft
55165	XCODS221215		15ft
55166	XCODS241203	24x12	3ft
55167	XCODS241205		5ft
55168	XCODS241208		8ft
55169	XCODS241210		10ft
55170	XCODS241215		15ft
55171	XCODS141403	14x14	3ft
55172	XCODS141405		5ft
55173	XCODS141408		8ft
55174	XCODS141410		10ft
55175	XCODS141415		15ft
55176	XCODS161403	16x14	3ft
55177	XCODS161405		5ft
55178	XCODS161408		8ft
55179	XCODS161410		10ft
55180	XCODS161415		15ft
55181	XCODS181403	18x14	3ft
55182	XCODS181405		5ft
55183	XCODS181408		8ft
55184	XCODS181410		10ft
55185	XCODS181415		15ft
55186	XCODS201403	20x14	3ft
55187	XCODS201405		5ft
55188	XCODS201408		8ft
55189	XCODS201410		10ft
55190	XCODS201415		15ft

Item#	Code	Size	Cable Length
55191	XCODS221403	22x14	3ft
55192	XCODS221405		5ft
55193	XCODS221408		8ft
55194	XCODS221410		10ft
55195	XCODS221415		15ft
55196	XCODS241403	24x14	3ft
55197	XCODS241405		5ft
55198	XCODS241408		8ft
55199	XCODS241410		10ft
55200	XCODS241415		15ft
55201	XCODS161603	16x16	3ft
55202	XCODS161605		5ft
55203	XCODS161608		8ft
55204	XCODS161610		10ft
55205	XCODS161615		15ft
55206	XCODS181603	18x16	3ft
55207	XCODS181605		5ft
55208	XCODS181608		8ft
55209	XCODS181610		10ft
55210	XCODS181615		15ft
55211	XCODS201603	20x16	3ft
55212	XCODS201605		5ft
55213	XCODS201608		8ft
55214	XCODS201610		10ft
55215	XCODS201615		15ft
55216	XCODS221603	22x16	3ft
55217	XCODS221605		5ft
55218	XCODS221608		8ft
55219	XCODS221610		10ft
55220	XCODS221615		15ft
55221	XCODS241603	24x16	3ft
55222	XCODS241605		5ft
55223	XCODS241608		8ft
55224	XCODS241610		10ft
55225	XCODS241615		15ft
55226	XCODS181803	18x18	3ft
55227	XCODS181805		5ft
55228	XCODS181808		8ft
55229	XCODS181810		10ft
55230	XCODS181815		15ft
55231	XCODS201803	20x18	3ft
55232	XCODS201805		5ft
55233	XCODS201808		8ft
55234	XCODS201810		10ft
55235	XCODS201815		15ft

Item#	Code	Size	Cable Length
55236	XCODS221803	22x18	3ft
55237	XCODS221805		5ft
55238	XCODS221808		8ft
55239	XCODS221810		10ft
55240	XCODS221815		15ft
55241	XCODS241803	24x18	3ft
55242	XCODS241805		5ft
55243	XCODS241808		8ft
55244	XCODS241810		10ft
55245	XCODS241815		15ft
55246	XCODS202003	20x20	3ft
55247	XCODS202005		5ft
55248	XCODS202008		8ft
55249	XCODS202010		10ft
55250	XCODS202015		15ft
55251	XCODS222003	22x20	3ft
55252	XCODS222005		5ft
55253	XCODS222008		8ft
55254	XCODS222010		10ft
55255	XCODS222015		15ft
55256	XCODS242003	24x20	3ft
55257	XCODS242005		5ft
55258	XCODS242008		8ft
55259	XCODS242010		10ft
55260	XCODS242015		15ft
55261	XCODS222203	22x22	3ft
55262	XCODS222205		5ft
55263	XCODS222208		8ft
55264	XCODS222210		10ft
55265	XCODS222215		15ft
55266	XCODS242203	24x22	3ft
55267	XCODS242205		5ft
55268	XCODS242208		8ft
55269	XCODS242210		10ft
55270	XCODS242215		15ft
55271	XCODS242403	24x24	3ft
55272	XCODS242405		5ft
55273	XCODS242408		8ft
55274	XCODS242410		10ft
55275	XCODS242415		15ft

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