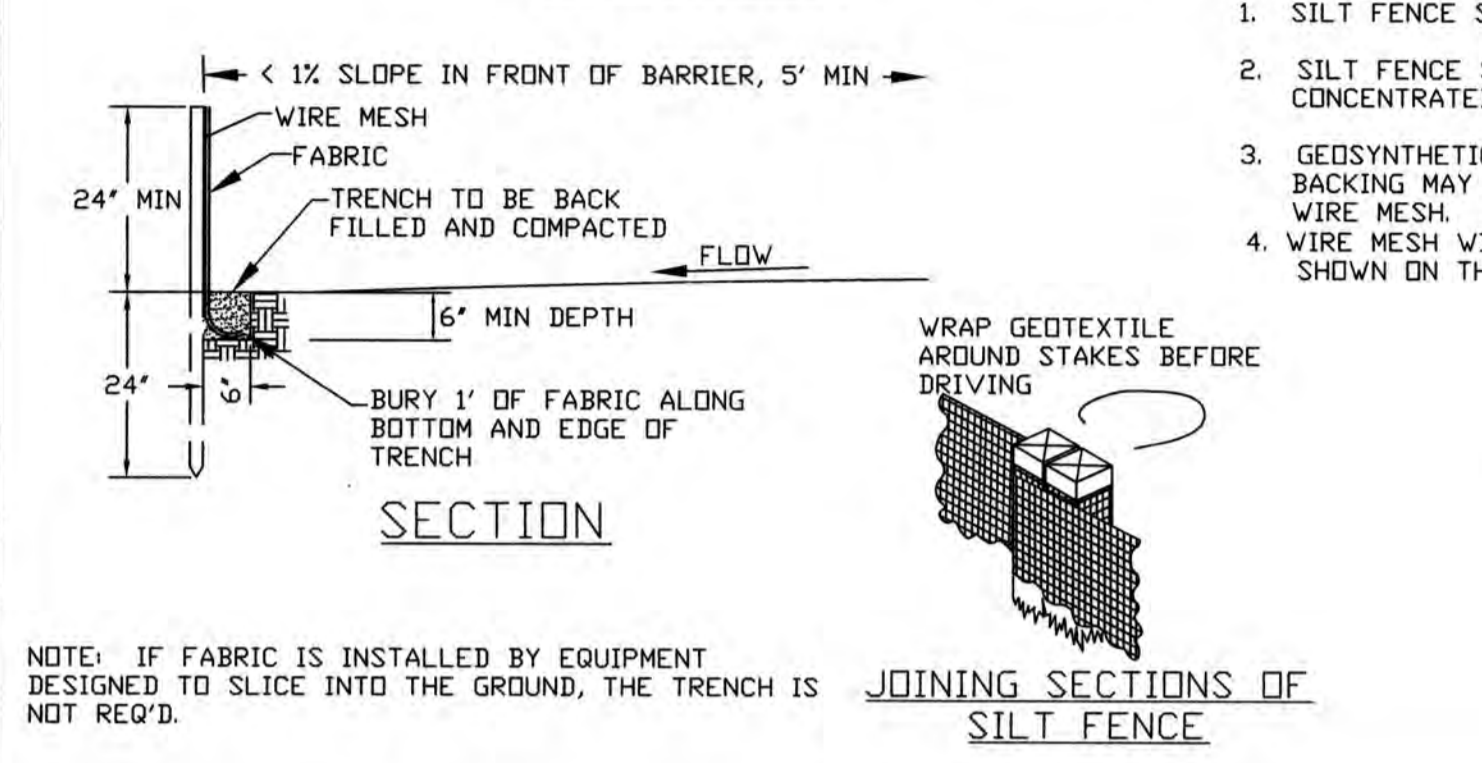
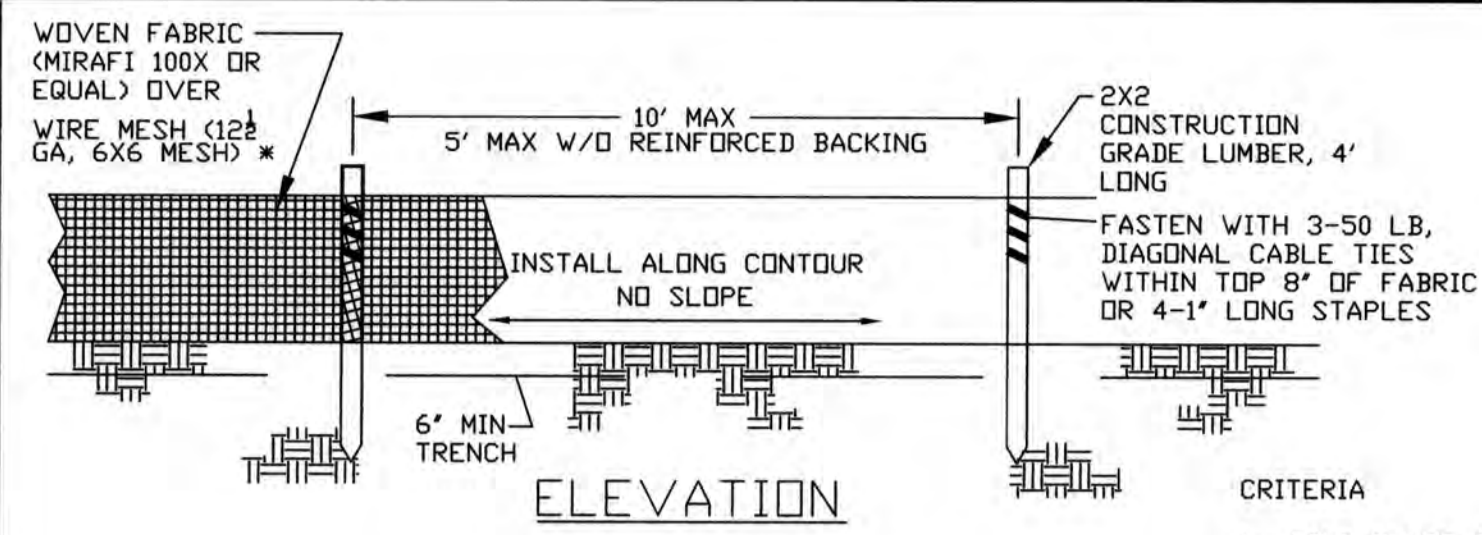


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - REFER TO INDIVIDUAL ESC FIGURES FOR INSTALLATION.
 - TERRACING INCLUDES LOGS, VATTLES & FILTER SOCKS.

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OTTAWA, MISSOURI**

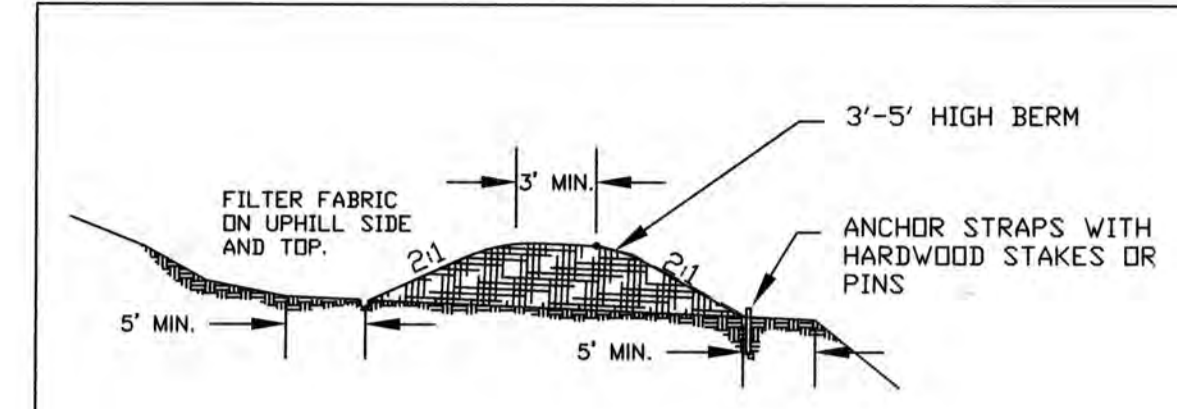
**SPACING CHART
FOR ESC DEVICES**



- CRITERIA**
- SILT FENCE SHALL BE 24 INCHES HIGH.
 - SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
 - GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
 - WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

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**SILT FENCE INSTALLATION
SHEET FLOW ONLY**



WOOD CHIP BARRIER DESIGN

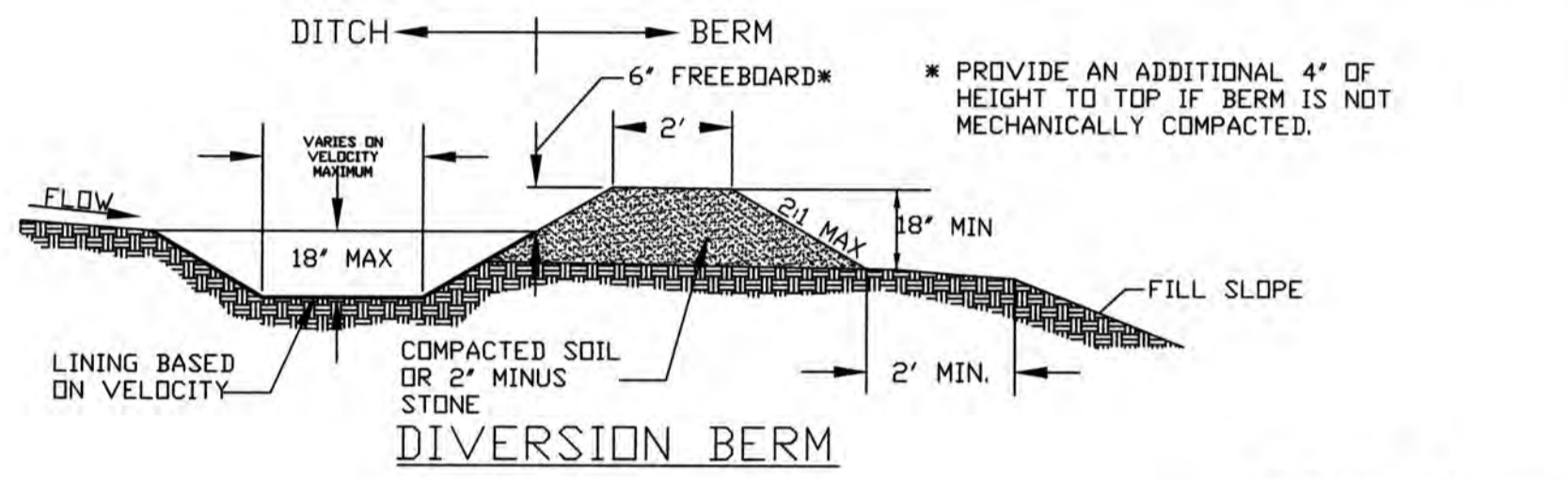
DA PER 100' BERM	FILTER FABRIC	BERM HEIGHT
0.5 AC	NO	3'
0.75 AC	YES	3'
1 AC MAX	YES	6'

- CRITERIA**
- WOOD CHIPS GENERATED FROM ON-SITE CLEARING OPERATIONS CAN BE USED.
 - THIS DEVICE MAY BE USED AS AN ALTERNATIVE FOR SILT FENCE.
 - BARRIER MUST BE AT LEAST 5' FROM A DISTURBED EMBANKMENT (EITHER SIDE).
 - REFER TO TABLE FOR DESIGN DETAILS.

**St. Charles County
Erosion & Sediment Controls
Standard Drawings**

**WOOD CHIP
BARRIER
INSTALLATION**

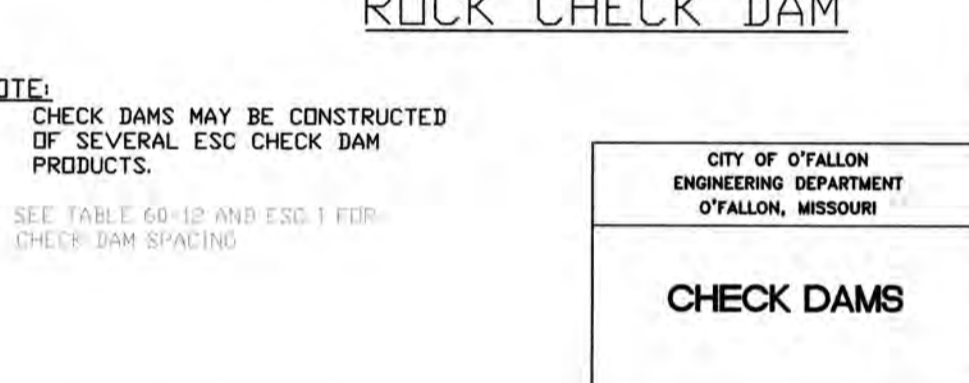
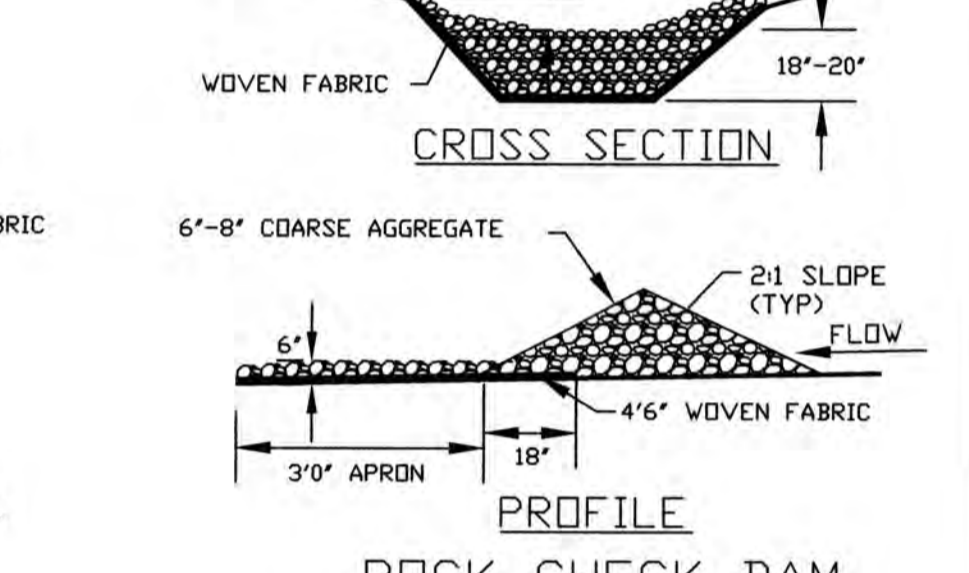
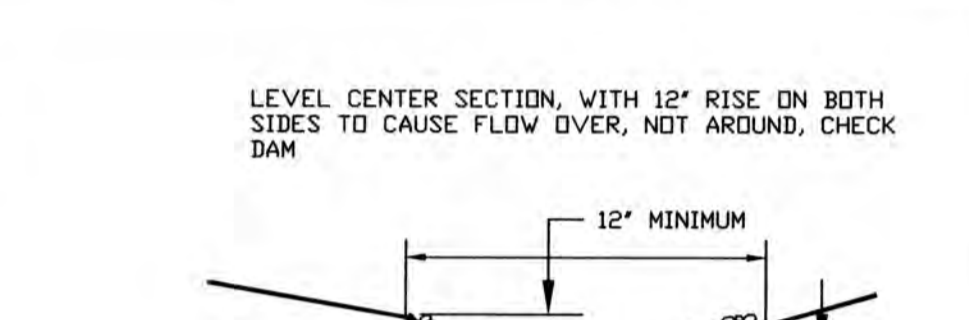
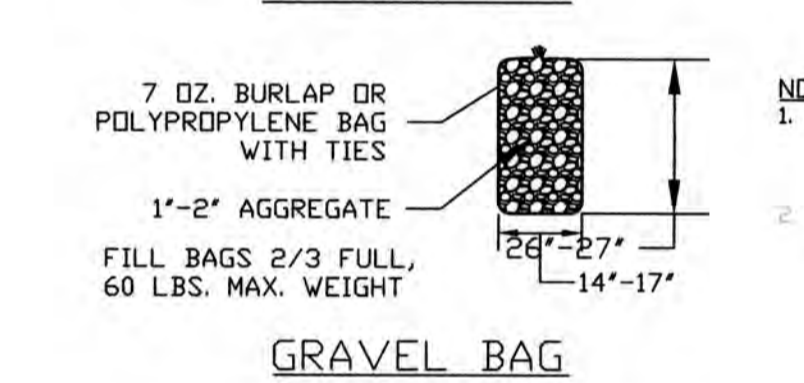
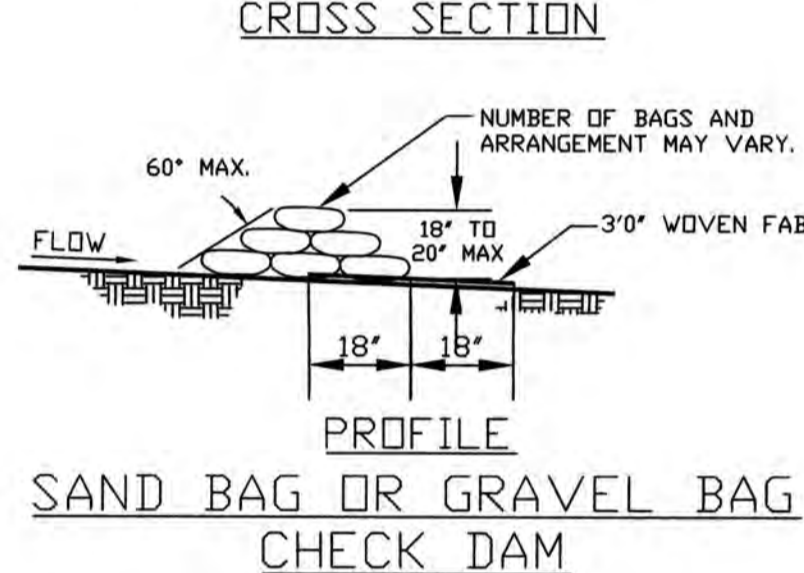
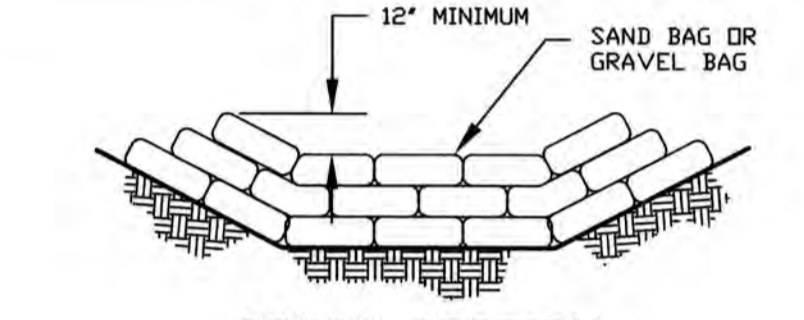
DATE: APRIL 2008 DRAWING: ESC-7



- DESIGN CRITERIA**
- DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS ≤ 3 ACRES.
 - DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
 - CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20MIN STORM.
 - MAXIMUM CHANNEL SLOPE OF 3% WITHOUT CHECK DAMS.
 - SWALE SEDIMENT TRAPS ARE TO BE USED IN HIGHLY ERODIBLE AREAS.
 - CHANNELS SHALL BE PROTECTED USING APPROPRIATE CHANNEL LINERS.
 - CHANNEL OUTLETS MUST BE STABILIZED.
 - STORM SEWERS MAY BE USED IN LIEU OF OPEN CHANNELS.

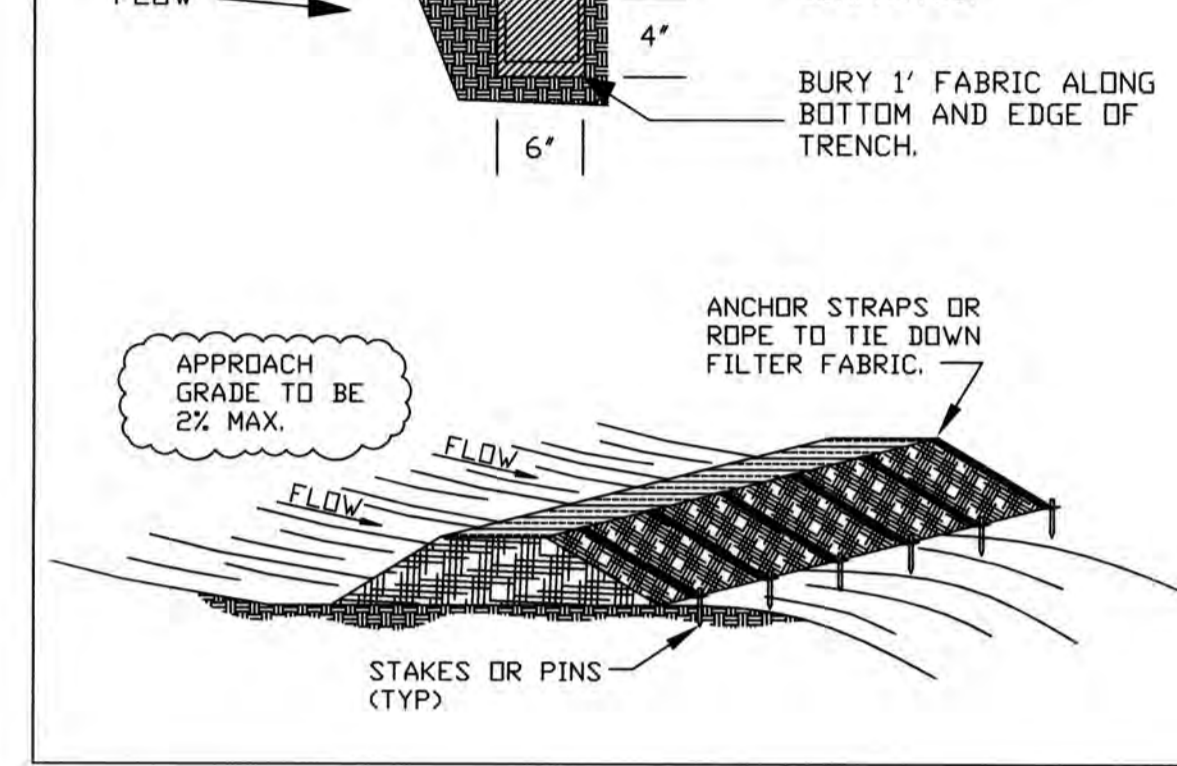
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ENGINEERING DEPARTMENT
OTTAWA, MISSOURI**

**DIVERSION BERMS
+ DIKES**



**CITY OF OTTAWA
ENGINEERING DEPARTMENT
OTTAWA, MISSOURI**

CHECK DAMS



- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
 - PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6-MONTH STORM EVENT.
 - OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FENCE FENCES.

**St. Charles County
Erosion & Sediment Controls
Standard Drawings**

**AREA INLET
PROTECTION
FABRIC DROP**

DATE: MARCH 2008 DRAWING: ESC-14

ENGINEERS SEAL DOES NOT APPLY TO DETAILS ON THIS SHEET.

FLEXSTORM P/Ns 62LHDPC & 62LHDPC
HD4 INLET TYPE: SQUARE/RECT PRECAST OPENING WITH 4 SEAT GRATE SUPPORT

ADS P/N	Flexstorm Size Code	Grade Size	Clear Opening	Flow at 50% of Max (CFD)	Flow at 100% of Max (CFD)	Flow at 150% of Max (CFD)	Flow at 200% of Max (CFD)	Flow at 250% of Max (CFD)	Flow at 300% of Max (CFD)	Flow at 350% of Max (CFD)	Flow at 400% of Max (CFD)	Flow at 450% of Max (CFD)	Flow at 500% of Max (CFD)	Flow at 550% of Max (CFD)	Flow at 600% of Max (CFD)	Flow at 650% of Max (CFD)	Flow at 700% of Max (CFD)	Flow at 750% of Max (CFD)	Flow at 800% of Max (CFD)	Flow at 850% of Max (CFD)	Flow at 900% of Max (CFD)	Flow at 950% of Max (CFD)	Flow at 1000% of Max (CFD)
62LHDPC	18	18	18	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6	22.8	24.0
62LHDPC	24	24	24	1.6	3.2	4.8	6.4	8.0	9.6	11.2	12.8	14.4	16.0	17.6	19.2	20.8	22.4	24.0	25.6	27.2	28.8	30.4	32.0
62LHDPC	30	30	30	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0
62LHDPC	36	36	36	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0	26.4	28.8	31.2	33.6	36.0	38.4	40.8	43.2	45.6	48.0
62LHDPC	42	42	42	2.8	5.6	8.4	11.2	14.0	16.8	19.6	22.4	25.2	28.0	30.8	33.6	36.4	39.2	42.0	44.8	47.6	50.4	53.2	56.0
62LHDPC	48	48	48	3.2	6.4	9.6	12.8	16.0	19.2	22.4	25.6	28.8	32.0	35.2	38.4	41.6	44.8	48.0	51.2	54.4	57.6	60.8	64.0
62LHDPC	54	54	54	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0
62LHDPC	60	60	60	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	56.0	60.0	64.0	68.0	72.0	76.0	80.0
62LHDPC	66	66	66	4.4	8.8	13.2	17.6	21.6	25.6	29.6	33.6	37.6	41.6	45.6	49.6	53.6	57.6	61.6	65.6	69.6	73.6	77.6	81.6
62LHDPC	72	72	72	4.8	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0	52.8	57.6	62.4	67.2	72.0	76.8	81.6	86.4	91.2	96.0
62LHDPC	78	78	78	5.2	10.4	15.6	20.8	26.4	31.2	36.0	40.8	45.6	50.4	55.2	60.0	64.8	69.6	74.4	79.2	84.0	88.8	93.6	98.4
62LHDPC	84	84	84	5.6	11.2	16.8	22.4	28.8	34.4	40.0	45.6	51.2	56.8	62.4	68.0	73.6	79.2	84.8	90.4	96.0	101.6	107.2	112.8
62LHDPC	90	90	90	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0
62LHDPC	96	96	96	6.4	12.8	19.2	25.6	32.0	38.4	44.8	51.2	57.6	64.0	70.4	76.8	83.2	89.6	96.0	102.4	108.8	115.2	121.6	128.0
62LHDPC	102	102	102	6.8	13.6	20.4	27.2	33.6	40.0	46.4	52.8	59.2	65.6	72.0	78.4	84.8	91.2	97.6	104.0	110.4	116.8	123.2	129.6
62LHDPC	108	108	108	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8	72.0	79.2	86.4	93.6	100.8	108.0	115.2	122.4	129.6	136.8	144.0
62LHDPC	114	114	114	7.6	15.2	22.8	30.4	38.4	46.4	53.6	60.8	68.0	75.2	82.4	89.6	96.8	104.0	111.2	118.4	125.6	132.8	140.0	147.2
62LHDPC	120	120	120	8.0	16.0	24.0	32.0	40.0	49.6	57.6	65.6	73.6	81.6	89.6	97.6	105.6	113.6	121.6	129.6	137.6	145.6	153.6	161.6
62LHDPC	126	126	126	8.4	16.8	25.2	33.6	42.0	51.2	59.2	67.2	75.2	83.2	91.2	99.2	107.2	115.2	123.2	131.2	139.2	147.2	155.2	163.2
62LHDPC	132	132	132	8.8	17.6	26.4	35.2	44.0	54.4	62.4	70.4	78.4	86.4	94.4	102.4	110.4	118.4	126.4	134.4	142.4	150.4	158.4	166.4
62LHDPC	138	138	138	9.2	18.4	27.6	36.8	46.4	57.6	65.6	73.6	81.6	89.6	97.6	105.6	113.6	121.6	129.6	137.6	145.6	153.6	161.6	169.6
62LHDPC	144	144	144	9.6	19.2	28.8	38.4	48.0	60.0	68.0	76.0	84.0	92.0	100.0	108.0	116.0	124.0	132.0	140.0	148.0	156.0	164.0	172.0
62LHDPC	150	150	150	10.0	20.0	30.0	40.0	50.0	62.4	70.4	78.4	86.4	94.4	102.4	110.4	118.4	126.4	134.4	142.4	150.4	158.4	166.4	174.4
62LHDPC	156	156	156	10.4	20.8	31.2	41.6	52.8	65.6	73.6	81.6	89.6	97.6	105.6	113.6	121.6	129.6	137.6	145.6	153.6	161.6	169.6	177.6
62LHDPC	162	162	162	10.8	21.6	32.4	43.2	54.4	68.0	76.0	84.0	92.0	100.0	108.0	116.0	124.0	132.0	140.0	148.0	156.0	164.0	172.0	180.0
62LHDPC	168	168	168	11.2	22.4	33.6	44.8	56.0	71.2	79.2	87.2	95.2	103.2	111.2	119.2	127.2	135.2	143.2	151.2	159.2	167.2	175.2	183.2
62LHDPC	174	174	174	11.6	23.2	34.8	46.4	57.6	73.6	81.6	89.6	97.6	105.6	113.6	121.6	129.6	137.6	145.6	153.6	161.6	169.6	177.6	185.6
62LHDPC	180	180	180	12.0	24.0	36.0	48.0	60.0	76.0	84.0	92.0	100.0	108.0	116.0	124.0	132.0	140.0	148.0	156.0	164.0	172.0	180.0	188.0
62LHDPC	186	186	186	12.4	24.8	37.2	49.6	62.4	78.4	86.4	94.4	102.4	110.4	118.4	126.4	134.4	142.4	150.4	158.4	166.4	174.4	182.4	190.4
62LHDPC	192	192	192	12.8	25.6	38.4	51.2	64.0	80.0	88.0	96.0	104.0	112.0	120.0	128.0	136.0	144.0	152.0	160.0	168.0	176.0	184.0	192.0
62LHDPC	198	198	198	13.2	26.4	39.6	52.8	66.4	83.2	91.2	99.2	107.2	115.2	123.2	131.2	139.2	147.2	155.2	163.2	171.2	179.2	187.2	195.2
62LHDPC	204	204	204	13.6	27.2	40.8	54.4	68.0	86.4	94.4	102.4	110.4	118.4	126.4	134.4	142.4	150.4	158.4	166.4	174.4	182.4	190.4	198.4
62LHDPC	210	210	210	14.0	28.0	42.0	56.0	70.4	90.0	98.0	106.0	114.0	122.0	130.0	138.0	146.0	154.0	162.0	170.0	178.0	186.0	194.0	202.0
62LHDPC	216	216	216	14.4	28.8	43.2	57.6	72.0	93.6	101.6	109.6	117.6	125.6	133.6	141.6	149.6	157.6	165.6	173.6	181.6	189.6	197.6	205.6
62LHDPC	222	222	222	14.8	29.6	44.4	59.2	74.4	97.2	105.2	113.2	121.2	129.2	137.2	145.2	153.2	161.2	169.2	177.2	185.2	193.2	201.2	209.2
62LHDPC	228	228	228	15.2	30.4	45.6	60.8	76.0	100.8	108.8	116.8	124.8	132.8	140.8	148.8	156.8	164.8	172.8	180.8	188.8	196.8	204.8	212.8
62LHDPC	234	234	234	15.6	31.2	46.8	62.4	78.4	105.6	113.6	121.6	129.6	137.6										