

Vedlegg 8

CO2-regnskap

Masse / Volum av materialer**Søyler**

Type	Navn	Vekt (t/m)	Høyde (m)	Masse (t)
KKR 100x100x6	C,1	0,017	3,39	0,057
KKR 100x100x6	C,2	0,017	3,39	0,057
KKR 100x100x6	C,3	0,017	3,39	0,057
KKR 100x100x6	C,4	0,017	3,39	0,057
KKR 100x100x6	C,136	0,017	6,78	0,113
KKR 100x100x6	C,6	0,017	3,39	0,057
KKR 100x100x6	C,7	0,017	3,39	0,057
KKR 100x100x6	C,8	0,017	3,39	0,057
KKR 100x100x6	C,9	0,017	3,39	0,057
KKR 100x100x6	C,10	0,017	3,39	0,057
KKR 100x100x6	C,11	0,017	3,39	0,057
KKR 100x100x6	C,12	0,017	3,39	0,057
KKR 100x100x6	C,13	0,017	3,39	0,057
KKR 100x100x6	C,14	0,017	3,39	0,057
KKR 100x100x6	C,15	0,017	3,39	0,057
KKR 100x100x6	C,16	0,017	3,39	0,057
KKR 100x100x6	C,17	0,017	3,39	0,057
KKR 100x100x6	C,18	0,017	3,39	0,057
KKR 100x100x6	C,137	0,017	6,78	0,113
KKR 100x100x6	C,20	0,017	3,39	0,057
KKR 100x100x6	C,21	0,017	3,39	0,057
KKR 100x100x6	C,22	0,017	3,39	0,057
KKR 100x100x6	C,23	0,017	3,39	0,057
KKR 100x100x6	C,24	0,017	3,39	0,057
KKR 100x100x6	C,25	0,017	3,39	0,057
KKR 100x100x6	C,26	0,017	3,39	0,057
KKR 100x100x6	C,27	0,017	3,39	0,057
KKR 100x100x6	C,28	0,017	3,39	0,057
KKR 100x100x6	C,29	0,017	3,39	0,057
KKR 100x100x6	C,30	0,017	3,39	0,057
KKR 100x100x6	C,31	0,017	3,39	0,057
KKR 100x100x6	C,32	0,017	3,39	0,057
KKR 100x100x6	C,33	0,017	3,39	0,057
KKR 100x100x6	C,34	0,017	3,39	0,057
KKR 100x100x6	C,35	0,017	3,39	0,057
KKR 100x100x6	C,36	0,017	3,39	0,057
KKR 100x100x6	C,37	0,017	3,39	0,057
KKR 100x100x6	C,38	0,017	3,39	0,057
KKR 100x100x6	C,39	0,017	3,39	0,057
KKR 100x100x6	C,40	0,017	3,39	0,057
KKR 100x100x6	C,41	0,017	3,39	0,057
KKR 100x100x6	C,42	0,017	3,39	0,057
KKR 100x100x6	C,44	0,017	3,39	0,057
KKR 100x100x6	C,45	0,017	3,39	0,057
KKR 100x100x6	C,46	0,017	3,39	0,057
KKR 100x100x6	C,48	0,017	3,39	0,057
KKR 100x100x6	C,49	0,017	3,39	0,057

KKR 100x100x6	C,50	0,017	3,39	0,057
KKR 100x100x6	C,51	0,017	3,39	0,057
KKR 100x100x6	C,52	0,017	3,39	0,057
KKR 100x100x6	C,53	0,017	3,39	0,057
KKR 100x100x6	C,54	0,017	3,39	0,057
KKR 100x100x6	C,55	0,017	3,39	0,057
KKR 100x100x6	C,56	0,017	3,39	0,057
KKR 100x100x6	C,57	0,017	3,39	0,057
KKR 100x100x6	C,58	0,017	3,39	0,057
KKR 100x100x6	C,59	0,017	3,39	0,057
KKR 100x100x6	C,60	0,017	3,39	0,057
KKR 100x100x6	C,61	0,017	3,39	0,057
KKR 100x100x6	C,62	0,017	3,39	0,057
KKR 100x100x6	C,63	0,017	3,39	0,057
KKR 100x100x6	C,64	0,017	3,39	0,057
KKR 100x100x6	C,65	0,017	3,39	0,057
KKR 100x100x6	C,66	0,017	3,39	0,057
KKR 100x100x6	C,68	0,017	3,39	0,057
KKR 100x100x6	C,69	0,017	3,39	0,057
KKR 100x100x6	C,70	0,017	3,39	0,057
KKR 100x100x6	C,71	0,017	3,39	0,057
KKR 100x100x6	C,72	0,017	3,39	0,057
KKR 100x100x6	C,73	0,017	3,39	0,057
KKR 100x100x6	C,74	0,017	3,39	0,057
KKR 100x100x6	C,75	0,017	3,39	0,057
KKR 100x100x6	C,76	0,017	3,39	0,057
KKR 100x100x6	C,77	0,017	3,39	0,057
KKR 100x100x6	C,78	0,017	3,39	0,057
KKR 100x100x6	C,79	0,017	3,39	0,057
KKR 100x100x6	C,80	0,017	3,39	0,057
KKR 100x100x6	C,81	0,017	3,39	0,057
KKR 100x100x6	C,82	0,017	3,39	0,057
KKR 100x100x6	C,83	0,017	3,39	0,057
KKR 100x100x6	C,84	0,017	3,39	0,057
KKR 100x100x6	C,86	0,017	3,39	0,057
KKR 100x100x6	C,87	0,017	3,39	0,057
KKR 100x100x6	C,88	0,017	3,39	0,057
KKR 100x100x6	C,89	0,017	3,39	0,057
KKR 100x100x6	C,90	0,017	3,39	0,057
KKR 100x100x6	C,91	0,017	3,39	0,057
KKR 100x100x6	C,92	0,017	3,39	0,057
KKR 100x100x6	C,93	0,017	3,39	0,057
KKR 100x100x6	C,94	0,017	3,39	0,057
KKR 100x100x6	C,95	0,017	3,39	0,057
KKR 100x100x6	C,96	0,017	3,39	0,057
KKR 100x100x6	C,97	0,017	3,39	0,057
KKR 100x100x6	C,98	0,017	3,39	0,057
KKR 100x100x6	C,99	0,017	3,39	0,057
KKR 100x100x6	C,100	0,017	3,39	0,057
KKR 100x100x6	C,101	0,017	3,39	0,057

KKR 100x100x6	C,102	0,017	3,39	0,057
KKR 100x100x6	C,103	0,017	3,39	0,057
KKR 100x100x6	C,104	0,017	3,39	0,057
KKR 100x100x6	C,105	0,017	3,39	0,057
KKR 100x100x6	C,106	0,017	3,39	0,057
KKR 100x100x6	C,107	0,017	3,39	0,057
KKR 100x100x6	C,109	0,017	3,39	0,057
KKR 100x100x6	C,110	0,017	3,39	0,057
KKR 100x100x6	C,111	0,017	3,39	0,057
KKR 100x100x6	C,112	0,017	3,39	0,057
KKR 100x100x6	C,113	0,017	3,39	0,057
KKR 100x100x6	C,114	0,017	3,39	0,057
KKR 100x100x6	C,115	0,017	3,39	0,057
KKR 100x100x6	C,116	0,017	3,39	0,057
KKR 100x100x6	C,117	0,017	3,39	0,057
KKR 100x100x6	C,118	0,017	3,39	0,057
KKR 100x100x6	C,119	0,017	3,39	0,057
KKR 100x100x6	C,120	0,017	3,39	0,057
KKR 100x100x6	C,121	0,017	3,39	0,057
KKR 100x100x6	C,122	0,017	3,39	0,057
KKR 100x100x6	C,123	0,017	3,39	0,057
KKR 100x100x6	C,124	0,017	3,39	0,057
KKR 100x100x6	C,125	0,017	3,39	0,057
KKR 100x100x6	C,126	0,017	3,39	0,057
KKR 100x100x6	C,127	0,017	3,39	0,057
KKR 100x100x6	C,128	0,017	3,39	0,057
KKR 100x100x6	C,129	0,017	3,39	0,057
KKR 100x100x6	C,130	0,017	3,39	0,057
KKR 100x100x6	C,131	0,017	3,39	0,057
KKR 100x100x6	C,132	0,017	3,39	0,057
KKR 100x100x6	C,133	0,017	3,39	0,057
KKR 100x100x6	C,134	0,017	6,78	0,113
KKR 100x100x6	C,135	0,017	6,78	0,113
KKR 100x100x8	C,108	0,021	3,39	0,072
KKR 100x100x8	C,47	0,021	3,39	0,073
KKR 120x120x6	C,5	0,021	3,39	0,070
KKR 120x120x6	C,19	0,021	3,39	0,070
KKR 120x120x6	C,43	0,021	3,39	0,070
KKR 120x120x6	C,85	0,021	3,39	0,070
KKR 120x120x6	C,67	0,021	3,39	0,070
Total				8,129

Bjelker

Type	Navn	Vekt (t/m)	Lengde (m)	Masse (t)
THP 185	B,31	0,077	5,014	0,387
THP 185	B,62	0,077	4,619	0,357
THP 185	B,3	0,077	10,540	0,814
THP 185	B,4	0,077	12,299	0,949
THP 185	B,5	0,077	5,365	0,414
THP 185	B,63	0,077	5,587	0,431
THP 185	B,7	0,077	5,155	0,398
THP 185	B,64	0,077	2,565	0,198
THP 185	B,9	0,077	5,152	0,398
THP 185	B,10	0,077	8,152	0,629
THP 185	B,11	0,077	10,540	0,814
THP 185	B,12	0,077	5,155	0,398
THP 185	B,65	0,077	9,395	0,725
THP 185	B,14	0,077	9,300	0,718
THP 185	B,15	0,077	10,147	0,783
THP 185	B,16	0,077	7,602	0,587
THP 185	B,17	0,077	5,152	0,398
THP 185	B,94	0,077	5,065	0,391
THP 185	B,79	0,077	4,642	0,358
THP 185	B,80	0,077	3,156	0,244
THP 185	B,81	0,077	3,156	0,244
THP 185	B,89	0,077	3,525	0,272
THP 185	B,90	0,077	4,151	0,320
THP 185	B,24	0,077	2,904	0,224
THP 185	B,25	0,077	5,434	0,420
THP 185	B,26	0,077	4,409	0,340
THP 185	B,27	0,077	3,180	0,245
THP 185	B,28	0,077	7,460	0,576
THP 185	B,29	0,077	4,839	0,374
THP 185	B,30	0,077	4,381	0,338
THP 185	B,61	0,077	1,976	0,153
THP 185	B,32	0,077	5,399	0,417
THP 185	B,33	0,077	4,400	0,340
THP 185	B,34	0,077	3,500	0,270
THP 185	B,35	0,077	2,830	0,218
THP 185	B,91	0,077	5,204	0,402
THP 185	B,48	0,077	3,940	0,304
THP 185	B,92	0,077	4,191	0,324
THP 185	B,93	0,077	3,893	0,301
THP 185	B,40	0,077	3,646	0,281
THP 185	B,41	0,077	3,215	0,248
THP 185	B,42	0,077	4,178	0,323
THP 185	B,43	0,077	4,614	0,356
THP 185	B,44	0,077	3,266	0,252
THP 185	B,45	0,077	5,314	0,410
THP 185	B,46	0,077	1,566	0,121
THP 185	B,47	0,077	6,023	0,465
THP 185	B,59	0,077	3,794	0,293

THP 185	B,49	0,077	2,280	0,176
THP 185	B,50	0,077	3,835	0,296
THP 185	B,51	0,077	1,570	0,121
THP 185	B,57	0,077	3,865	0,298
THP 185	B,58	0,077	4,640	0,358
THP 185	B,60	0,077	5,484	0,423
IPE 240	B,2	0,031	7,676	0,238
IPE 240	B,6	0,031	1,786	0,055
IPE 240	B,8	0,031	8,252	0,256
IPE 240	B,13	0,031	9,518	0,295
IPE 240	B,18	0,031	2,320	0,072
IPE 240	B,19	0,031	4,957	0,154
IPE 240	B,20	0,031	5,022	0,156
IPE 240	B,21	0,031	5,206	0,161
IPE 240	B,22	0,031	5,635	0,175
IPE 240	B,23	0,031	9,979	0,309
IPE 240	B,36	0,031	4,321	0,134
IPE 240	B,38	0,031	3,550	0,110
IPE 240	B,39	0,031	4,052	0,126
IPE 240	B,68	0,031	4,687	0,145
IPE 240	B,69	0,031	5,014	0,155
IPE 240	B,70	0,031	3,550	0,110
IPE 240	B,71	0,031	3,514	0,109
IPE 240	B,37	0,031	5,331	0,165
IPE 240	B,73	0,031	3,514	0,109
IPE 240	B,74	0,031	4,295	0,133
IPE 240	B,75	0,031	4,239	0,131
IPE 240	B,76	0,031	3,253	0,101
IPE 240	B,77	0,031	4,343	0,135
IPE 240	B,78	0,031	5,014	0,155
IPE 240	B,54	0,031	4,723	0,146
IPE 240	B,1	0,031	7,750	0,240
IPE 240	B,55	0,031	6,455	0,200
IPE 240	B,82	0,031	3,750	0,116
IPE 240	B,72	0,031	3,550	0,110
IPE 240	B,84	0,031	6,547	0,203
IPE 240	B,85	0,031	5,365	0,166
IPE 240	B,86	0,031	3,156	0,098
IPE 240	B,87	0,031	3,525	0,109
IPE 240	B,88	0,031	4,151	0,129
IPE 240	B,56	0,031	6,470	0,201
IPE 240	B,52	0,031	3,685	0,114
IPE 240	B,53	0,031	4,467	0,138
IPE 240	B,66	0,031	2,629	0,081
IPE 240	B,67	0,031	3,465	0,107
IPE 240	B,83	0,031	3,813	0,118
Total				26,864

Vindkryss

Type	Navn	Vekt (t/m)	Lengde (m)	Masse (t)
VKR 80x80x3,6	T,1	0,009	6,346	0,054
VKR 80x80x3,6	T,2	0,009	6,347	0,054
VKR 80x80x3,6	T,3	0,009	4,698	0,040
VKR 80x80x3,6	T,4	0,009	4,698	0,040
VKR 80x80x3,6	T,5	0,009	4,298	0,037
VKR 80x80x3,6	T,6	0,009	4,299	0,037
VKR 80x80x3,6	T,7	0,009	4,658	0,040
VKR 80x80x3,6	T,8	0,009	4,658	0,040
VKR 80x80x3,6	T,9	0,009	6,449	0,055
VKR 80x80x3,6	T,10	0,009	6,449	0,055
Total				0,452

Kamstål i fundament

Fundament	Antall	Vekt (t)	Masse (t)
1,6x1,6	10	0,040	0,4
1,2x1,2	88	0,026	2,3
Sum			2,7

Huldekker

Type	Navn	Vekt (t/m2)	Areal (m2)	Masse (t)
HD 200	PP,1	0,255	49,047	12,507
HD 200	PP,2	0,255	49,047	12,507
HD 200	PP,3	0,255	40,720	10,384
HD 200	PP,4	0,255	87,740	22,374
HD 200	PP,5	0,255	64,406	16,424
HD 200	PP,6	0,255	97,408	24,839
HD 200	PP,7	0,255	51,937	13,244
HD 200	PP,8	0,255	20,923	5,335
HD 200	PP,9	0,255	4,539	1,157
HD 200	PP,10	0,255	54,672	13,941
HD 200	PP,11	0,255	49,548	12,635
HD 200	PP,12	0,255	49,664	12,664
HD 200	PP,13	0,255	63,368	16,159
HD 200	PP,14	0,255	77,952	19,878
HD 200	PP,15	0,255	55,903	14,255
HD 200	PP,16	0,255	66,261	16,897
HD 200	PP,17	0,255	10,708	2,731
HD 200	PP,18	0,255	26,306	6,708
HD 200	PP,19	0,255	7,063	1,801
HD 200	PP,20	0,255	30,777	7,848
HD 200	PP,21	0,255	51,937	13,244
HD 200	PP,22	0,255	110,178	28,095
HD 200	PP,23	0,255	63,368	16,159
HD 200	PP,24	0,255	75,707	19,305
HD 200	PP,25	0,255	33,909	8,647
HD 200	PP,26	0,255	54,779	13,969
HD 200	PP,27	0,255	54,637	13,932
HD 200	PP,28	0,255	65,569	16,720
HD 200	PP,29	0,255	71,213	18,159
HD 200	PP,30	0,255	42,774	10,907
HD 200	PP,31	0,255	12,184	3,107
HD 200	PP,32	0,255	54,255	13,835
HD 200	PP,33	0,255	13,687	3,490
HD 200	PP,34	0,255	38,343	9,777
HD 200	PP,35	0,255	11,835	3,018
HD 200	PP,36	0,255	17,376	4,431
HD 200	PP,37	0,255	15,322	3,907
Total				444,991

Lavkarbon betong i fundament

Type	Antall	BxL (m)	Høyde (m)	Volum (m3)
B30 M60	10,0	1,6	0,3	7,7
B30 M60	88,0	1,2	0,3	38,0
Sum				45,7

Distanse

Hva	Sted	Kilometer
Hulldekker	Gåsneset, Hjørungavåg	30
Betong	Stette, Ålesund	25
Stål	Hobro, Danmark	1040
Kamstål	Spjelkavikvegen, Ålesund	5

Definisjon

A1	A2	A3	A4	A5
Råmaterialer	Transport	Tilvirkning	Transport	Byggefase

CO2 -ekv i kg per tonn/m3 material

	A1	A2	A3	A4 ¹ (1km)	
Hulldekker	91,40	2,01	2,25	0,0828	tonn
Betong ²	177,00	11,70	2,01	0,0828	m3
Stål	1330,00			0,0828	tonn
Kamstål	393,00			0,0828	tonn

¹Lastebil over 32 tonn, EURO 6

CO2-ekv i kg

	A1	A2	A3	A4
Hulldekker	40672,16	894,43	1001,23	1105,36
Betong	8088,19	534,64	91,85	227,02
Stål	47141,40			3052,21
Kamstål	1048,08			1,10
Sum	99471,99			4385,69
Sum	103857,68			

Konstruksjonen har et samlet utslipp på 103,9 tonn CO2-ekvivalenter.