

ENR 5.4 AIR NAVIGATION OBSTRUCTIONS

1. NOTIFICATION

Notification and marking of AIR NAVIGATION OBSTRUCTIONS will be made in accordance with the following rules:

- Obstructions of 328 ft (100m) AGL and higher will be entered in MIL AIP DENMARK.
- Obstructions below 328 ft AGL will be entered in MIL AIP DENMARK when deemed necessary, i.e. mainly when situated in the vicinity of airfields etc.

2. MARKING

Obstructions of 492 ft (150 m) AGL or higher will be marked according to regulations laid down in ICAO ANNEX 14.

Certain obstructions below 492 ft AGL will be marked as mentioned above, when situated in the vicinity of airfields etc.

3. SPECIFICATIONS OF OBSTRUCTIONS

Above mentioned AIR NAVIGATION OBSTRUCTIONS within KØBENHAVN FIR and on the island of BORNHOLM may be found on subsequent pages.

Note: An asterisk () is used to indicate coordinates that do not meet the accuracy requirements as stated in ICAO Annex 15.*

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
AABENRAA, (Enstedværket 1)	Chimney	550114N 0092632E*	601 593	LIL F R	451
AABENRAA, (Enstedværket 2)	Chimney	550112N 0092612E*	425 419	No	449
AALBORG (Nordjyllandsværket 1)	Chimney	570431N 0100226E	565 558	LIH FLG W	114
AALBORG (Nordjyllandsværket 2)	6 wind turbines in a row	From 570448.82N 0100150.94E via 570431.74N 0100211.31E and 570416.59N 0100245.17E to 570402.74N 0100312.59E	371 365	LIM FLG R on turbine cap in each end of the row only	397 398 399
AALBORG (Nordjyllandsværket 3)	Chimney	570425N 0100234E	374 368	LIL F R	113
AALBORG (Nordjyllandsværket 4)	Chimney	570429N 0100231E	374 368	LIL F R	113
AALBORG (Rørdal)	Chimneys	570337N 0095834E*	405 394	No	448
AALBORG (Østhavn)	3 Wind turbines in a row	From 570220.6N 0100432.4E to 570210.1N 0100501.8E	403 400	LIM FLG R on each turbine cap	409
AARHUS (DLG)	Chimney	560905N 0101303E*	388 381	No	126
AARHUS (Domkirken)	Cathedral	560926N 0101241E*	348 335	No	124
AARHUS (Havn)	8 Cranes in a row	From 560854N 0101354E To 560927N 0101446E*	398 391	LIL F R	296

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
AARHUS (KFK)	Chimney	560906N 0101307E*	375 368	No	117
AARHUS (Midtkraft)	Chimney	560906N 0101246E*	351 341	No	125
ASNÆSVÆRKET 1	Chimney	553940N 0110453E*	735 722	LIH FLG W	130
ASNÆSVÆRKET 2	Chimneys	553943N 0110458E*	506 499	LIH FLG W	131
AVEDØRE HOLME	2 wind Turbines	553608N 0122740E 553606N 0122806E	503 503	No	
AARS	3 Wind Turbines	564409N 0093351E To 564406N 0093311E	619 492	No	
BALE	Mast	561833.19N 0102320.47E	595 252	LIM FLG W	279
BINDESBØL	8 Wind- turbines	Within area 555331N 0083553E 555344N 0083509E 555335N 0083455E 555323N 0083542E 555331N 0083553E	491 443	LIL F R	
BLYKOBBE	Mast	550802N 0144247E*	401 348	LIL F R	503
BLÅHØJ	Windturbine	555218N 0090023E*	558 394	LIL F R	331
BLÅVAND	Masts	553341N 0080700E*	420 338	No	162
BOVBJERG	Mast	563146N 0081001E*	470 335	No	167
BRANDE	Mast	555620N 0090542E*	581 348	No	200
BRANDE (Biomar)	Chimney	555657N 0090735E*	509 345	No	105
BREJL, EJSTRUPHOLM	Windturbine	560041N 0091706E	558 345	LIM FLG R	332
BRØNDBYVESTER	Chimney	553904N 0122356E*	454 410	No	143
BRØNDBY STRAND	Chimney	553717N 0122616E*	454 410	No	144
BRØNDERSLEV	Mast	571633N 0095838E*	464 350	No	230
DRANTUM	Windturbine	555423N 0090538E	662 491	LIL F R	
DRONNINGLUND	Mast	570848N 0101305E*	421 350	No	294
DØSTRUP	5 Wind Turbines	570157N 0091534E	425 417	LIL F R	
EBELTOFT	Mast	561050N 0104122E	507 347	LIL F R	
EGBJERG	Mast	544529N 0115903E*	381 341	No	302
EJBY	Chimney	554223N 0122514E*	530 489	LIL F R	141
ESBJERG (Vestkraft)	Chimney	552717N 0082719E*	834 821	LIH FLG W	95
FAARE	3 Wind- turbines	From 562740N 0081453E To 562744N 0081422E	484 438	No	
FARØ-FALSTER	Bridge Towers	545657N 0115841E*	338 338	No	132
FELSTED	Mast	545757N 0093310E*	748 507	LIL F R	208
FINO 3	Mast	551145N 0070936E	394 394	LIH F R	
FORNÆS	Mast	562649N 0105644E*	414 335	No	282
FREDERICIA 1 (Shell)	Chimney	553530N 0094455E*	453 358	No	452
FREDERIKS	2 wind turbines	562118.06N 0091541.56E 562125.55N 0091550.17E	627 388	LIL F R	
FREDERIKSHAVN	4 wind turbines in a row	Between 572651.24N 0103320.21E and 572631.16N 0103355.43E	420 420	LIM FLG R	401
FREJLEV	Masts	570013N 0094929E*	896 722	LIH FLG W	183
FÅBORG	Mast	550645N 0101302E*	420 350	No	295
GLADSAXE	Mast	554404N 0122933E*	837 676	LIH FLG W	479
GIMLINGE	4 Wind turbines	551835N 0112811E To 551904N 0112806E	415 520	No	
GRENÅ	Chimney	562445N 0105453E*	402 394	No	118

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
HADSTEN HAGESHOLM 1	Mast 6 wind turbines in a group	561814N 0095835E* Within area 554558.77N 0113404.90E 554557.62N 0113433.44E 554544.71N 0113431.80E 554545.91N 0113403.20E 554558.77N 0113404.90E	1280 1051 342 338	LIH FLG W OBST LGT on each turbine cap LIL F R	226 411
HAGESHOLM 2	10 wind turbines in a group	554538N 0113202E 554538N 0113227E 554538N 0113252E 554538N 0113317E 554538N 0113342E 554556N 0113508E 554556N 0113529E 554556N 0113550E 554545N 0113508E 554544N 0113529E	416 416	No	
HAMMELEV HEMMET	Mast 6 Wind- turbines	551538.12N 0092409.83E Within area 555118N 0081927E 555139N 0081910E 555151N 0081923E 555130N 0081940E 555118N 0081927E	493 325 450 443	No LIL F R	13333
HEDENSTED	Mast	554836N 0093725E*	1273 1037	LIH FLG W	231
HERLEV (Hospital)	Building	554352N 0122639E*	484 383	LIM FLG R	138
HERNING	Mast	560756N 0085635E*	647 460	LIL F R	166
HERSTEDVESTER	Mast	554046N 0122114E*	407 338	No	471
HJØRRING	Mast	572653N 0100305E*	409 330	No	273
HOBRO (Tinghøj)	Tower	564228N 0095239E*	841 487	LIM FLG R	454
HOLBÆK	Mast	554154N 0114353E*	407 338	LIL F R	298
HOLSTEBRO (Mejrup)	Mast	562305N 0084019E*	922 722	LIH FLG W	165
HOLSTEBRO (Måbjergværket)	Chimney	562339N 0083704E*	499 381	No	450
HORNS REV 1	Wind farm. 80 wind turbines	Within area 553011.52N 0074746.93E 553014.40N 0075234.10E 552808.76N 0075304.92E 552805.88N 0074817.96E 553011.52N 0074746.93E	360 360	OBST LGT on each turbine cap as follows: On edge of the area LIM FLG R. Inside the edge LIL F R.	1646 1647 1648 1649
HORNS REV 2	Wind farm 91 wind Turbines In a group	Within area 553334.72N 0073554.00E 553323.34N 0073248.45E 553852.69N 0073535.50E 553747.19N 0073802.35E	375 375	Obst lgt not established	
HOVE	Mast	554300N 0121415E*	1083 1051	LIH FLG W	480
HØJER	Masts	550117N 0084157E*	366 330	No	169
HØRRET	Mast	560548N 0101218E*	640 345	LIL F R	286
HØVSØRE	8 masts and 5 wind turbines	Within area 562712N 0080852E* 562712N 0080910E* 562622N 0080905E* 562622N 0080848E* 562712N 0080852E*	558 545	LIH FLG W	1659
JYDERUP	Mast	554105N 0112742E*	1086 1051	LIH FLG W	459
KALUNDBORG 1 (Radio)	Group of masts	554026N 0110426E*	476 473	No	458
KALUNDBORG 2 (Statoil)	Flare stack	553913N 0110601E*	423 398	No	133
KALVSLUND	Mast	552248N 0085150E*	401 345	LIM FLG W	168
KARLEBY	Mast	545221N 0111150E*	571 539	LIM FLG R	457

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
KLINTHOLM	Mast	545722N 0122756E*	333 330	No	492
KYNDBY	Chimney	554848N 0115243E*	434 427	No	127
KYSE	2 Wind Turbines	551617N 0113655E to 551607N 0113659E	478 415	OBST LGT not established	
KØBENHAVN (Amager forbrænding)	Chimney	554109N 0123739E*	510 492	LIL F R	152
KØBENHAVN (Amagerværket)	3 Chimneys	554113N 0123740E* to 554109N 0123727E*	501 493	LIL F R	153
KØBENHAVN (Avedørev.)	2 Chimneys	553608N 0122847E*	502 492	LIH FLG W	150
KØBENHAVN (Carlsberg)	Chimney and Building	554000N 0123207E*	376 342	No	139
KØBENHAVN (Domus Vista)	Building	554016N 0123020E*	384 351	No	151
KØBENHAVN (Frederiksb. Varmecentral.)	Chimney	554102N 0123111E*	461 414	No	149
KØBENHAVN (H.C.Ørstedsværket)	Chimney	553922N 0123324E*	387 380	LIL F R	148
KØBENHAVN (Lygten)	Chimney	554220N 0123225E*	420 394	No	140
KØBENHAVN (Margretheholm.)	Mast	554110N 0123650E*	361 355	No	478
KØBENHAVN (Middelgrunden)	20 wind turbines in a row	From 554225.07N 0124006.14E via 554132.13N 0124014.74E to 554033.28N 0124006.15E	365 365	LIL F R on each turbine cap	446
KØBENHAVN Rådhus	Town Hall	554029N 0123409E*	364 344	Flood light	146
KØBENHAVN (Svanemølle)	Chimney	554220N 0123526E*	335 331	Flood light	136
KØBENHAVN 5 (Valby Gasv)	Gasometer	553835N 0123028E*	353 348	No	147
KØGE	Mast	552828N 0121124E*	354 350	No	491
LEMVIG	Mast	563218N 0081810E	532 335	No	
LILLEBÆLT 1	Bridge	553108N 0094455E*	401 401	No	99
LILLEBÆLT 2	Towers Two Masts carrying transmission lines	553106N 0094131E* 553136N 0094129E*	411 392 410 371	LIM FLG R	232 233
LILLEBÆLT 3	Two Masts carrying transmission lines	553106N 0094127E* 553136N 0094126E*	430 411 439 391	LIM FLG R	234 235
LIMFJORDEN 1	Two masts carrying transmission lines	570417N 0100228E* 570405N 0100151E*	339 332 339 332	LIL F R	258 259
LIMFJORDEN 2	Two Masts arrying transmission lines	570409N 0100240E* 570356N 0100159E*	479 465 476 465	LIM FLG R	260 261
LINDEBALLE	Mast	554522.55N 0091522.64E	706 257	LIM FLG W	181
LISBJERG	Chimney	561338N 0100925E*	552 328	No	119
LYNGDRUP	4 Wind turbines	570820N 0100703E 570807N 0100750E*	454 417	LIM FLG W	
LÆSØ	Mast	571608N 0110311E*	535 525	LIM FLG W	462
LEM KÆR	Wind turbine	560234.01N 0082101.87E	499 492	LIL F R	
LØGSTØR	Mast	555652N 0091550E	459 325	No	
MARIBO	Mast	544644N 0113041E*	393 350	No	463
NAKSKOV	3 Wind turbines in a row	From 544909N 0110620E to 544853N 0110636E	396 394	LIL F R	413 414

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
NEES	6 Wind-turbines	From 562216N 0081604E To 562244N 0081432E	518 492	LIL F R	
NIBE	Mast	565845N 0094551E*	1222 1051	LIH FLG W	184
NO	3 Wind Turbines	From 560742N 0082227E 560735N 0082217E to 560733N 0082233E	471 415	LIL F R	
NY BJERGBY	2 Wind turbines	554138N 0111308E	460 415	LIL F R	
NYBORG (NMT) NYSTED (Havmøllepark)	Mast 72 wind turbines in a group	551814N 0104831E* Within area 543410,23N 0114002,16E 543336,26N 0114534,81E 543131,62N 0114534,80E 543205,59N 0114002,15E	358 334 361 361	LIL FLG R On corners of the windfarm perimeter: LIM FLG W on nacelle. All other turbines: LIL F R on nacelle	268 415 429 430 416
NÆSTVED NØRREKÆR ENGE	Mast 12 Wind Turbines	551529N 0114845E* From 570007N 0092027E To 570056N 0092601E 570028N 0092446E	929 722 421 421	LIH FLG W LIH FLG W	461
NØRREKÆR ENGE	1 Wind Turbine	570028N 0092446E	421 421	No	
ODENSE (Fynsværket 1)	Chimneys	552542N 0102423E*	472 463	No	120
ODENSE (Fynsværket 2)	Chimney	552547N 0102440E*	779 771	LIH FLG W	121
ODENSE (Lindø)	Crane	552755N 0103137E	369 361	LIL F R	297
OVERGAARD	10 wind turbines in a row	From 563932N 0101812E to 563937N 0102012E	421 415	LIL F R	
PALUDANS FLAK	10 wind turbines in a row	Between 554430N 0103500E* and 554230N 0103500E*	336 336	LIM FLG R	403
RAGEBØL	Mast	545524N 0094409E*	474 338	LIL F R	239
RANDERS	Chimney	562731N 0100250E*	443 436	No	122
RANGSTRUP	Mast	550723N 0091110E*	995 726	LIH FLG W	225
RENS	5 Wind Turbines	545227N 0090318E	437 411	No	
RINGKØBING	Mast	560534N 0081655E*	386 350	No	179
RINGSTED	Mast	552821N 0114800E	443 325	LIL F R	
RISØ	Mast	554138N 0120521E*	420 404	LIL F R	472
ROSKILDE (Forbrænding)	Chimney	553830N 0120716E*	554 394	LIL F R	154
RUDMOSE	4 Wind Turbines	From 560447N 0082936E to 560440N 0082835E	640 411	LIL F R	
RØ	Mast	550936N 0145313E*	1415 1036	Yes	502
RØDEKRO (TV 2)	Mast	550159N 0091455E*	1161 1051	LIH FLG W	207
RØDSAND 2	Wind Farm	Within area 543500N 0112908E 543344N 0113701E 543135N 0113701E 543416N 0112728E To 543500N 0112908E	378 378	OBST LGT not established	
RØNLAND	8 Wind turbines in a row	Between 564013N 0081258E* and 563911N 0081331E*	394 394	LIM FLG R	1656

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
RØNNE (Forbrænding)	Chimney	550703N 0144356E*	415 247	LIL F R	157
RØSNÆS	Mast	554411N 0105509E*	506 302	LIL F R	264
SALTUM	2 Wind turbines	571452N 0094211E	433 417	LIL F R	
SAMSØ/MÅRUP	Mast	555636N 0103458E*	340 330	No	289
SAMSØ/TRANEBJERG	Mast	555122N 0103244E*	365 350	LIL F R	290
SKAMLEBÆK	Tower	554945N 0112521E*	512 273	No	134
SKANDERBORG	Mast	560221N 0100043E*	785 345	No	291
SKIVE	Mast	563408N 0090245E*	345 342	LIL F R	206
SKJERN	3 Wind Turbines	555741N 0083330E	440 410	LIL F R	
SKÆRBÆKVÆRKET	Chimneys	5530401N 0093655E*	403 394	LIL F R	455
		553041N 0093643E*	403 394	LIL F R	
SNOGHØJ	Mast	553134N 0094251E*	417 345	No	236
SPROGØ (North of)	7 Wind Turbines	552028N 0105622E	378 378	LIM FLG W	
	In a row	To 552047N 0105852E		On row end LIL F R	
				In between	
STIGSNÆS	Chimney	551229N 0111507E*	434 427	No	135
STOREBÆLT	Two bridge towers	552025N 0110124E*	883 883	LIH FLG W	128
		552037N 0110254E*	883 883	LIH FLG W	129
STUDSTRUPVÆRKET	Chimney	561505N 0102045E*	630 623	LIH FLG W	123
SVOLDRUP	6 Wind Turbines	564624N 0092229E	479 415	LIL F R	
	In a row	To 564623N 0092458E			
SØNDER HØJRUP (Fyn)	Mast	551700N 0102831E*	1014 726	LIH FLG W	262
SØSTERHØJ	Tower with mast	560555N 0101301E*	1050 709	LIH FLG W	283
TAASINGE	2 wind- turbines	545809N 0103436E	454 417	LIL F R	
		545809N 0103436E			
THISTED	Mast	565832N 0084103E*	600 498	LIM FLG R	178
TIM	3 wind turbines in a row	561106N 0081607E	484 473	LIL F R	
		561051N 0081629E			
TOLNE	Mast	573001N 0101806E*	724 527	LIH FLG W	272
TOMMERUP	Mast	551853N 0101335E*	1195 1054	LIH FLG W	263
ULBJERG	2 Wind turbines	563940N 0092319E	493 388	LIL F R	
		563947N 0092330E			
USSERØD (Hørsholm)	Chimney	555408N 0122926E*	359 328	No	145
VAMDRUP	Chimney	552542N 0091801E*	487 355	LIH FLG W	107
VARDE (Søvig Mark)	Flare stack	554005N 0082155E*	509 476	LIM FLG R	1666
	Chimney	554015N 0082209E	392 361	LIM FLG R	
VARDE (Nordenskov)	Mast	553925N 0084017E*	1102 1036	LIH FLG W	172
VEJEN	Chimney	552826N 0090924E*	460 345	LIL F R	109
VEJLE	Tower	554031N 0093010E*	797 448	LIL F R	227
VESTER BARDE	5 Wind Turbines	Within area 560741N 0084106E – 560753N 0084039E – 560747N 0084053E – 560805N 0084013E – to 560759N 0084026E	611 460	LIM F R	
VIBORG/SPARKÆR	Mast	562742N 0091404E*	1188 1037	LIH FLG W	204
VIDEBÆK	Mast	560827N 0084218E*	1173 1051	LIH FLG W	171
VOGNKÆR	5 Wind Turbines	From 560653N 0081356E to 560734N 0081358E	411 411	LIL F R	
VORDINGBORG	Mast	550307N 0115918E*	1230 1051	LIH FLG W	464
ØLGOD	Mast	554833N 0083335E*	676 496	LIL F R	170
ÅRSBALLE	Mast	550855N 0145248E*	965 575	LIH FLG W	501

Off shore obstacles

The following contains a listing of known off shore obstacles. For the purpose of this listing, an off shore obstacle is defined as an obstacle situated 2 km or more from the coast. Oil rigs in the north sea are not included (See ENR 5.3).

It is not mandatory to report obstacles less than 100 m in height in Denmark, so obstacles may exist that are not included in this listing.

Aircrews noticing off shore obstacles not included on this list are encouraged to report the observations to TACDEN Flight Information

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	REG NO	
Tunø Knob	Grp. of Windmills	555900N 0102130E	233	396	
South of Læsø	Mast	570505N 0110739E	197	468	
East of Langeland	Mast	550321N 0110801E	158	467	
Paludans flak	10 wind turbines in a row	Between 554430N 0103500E	336	403	
		and 554230N 0103500E		404	
Horns rev	80 wind turbines in a group	Within area	360	1646	
		553011.52N 0074746.93E		1647	
		553014.40N 0075234.10E		1648	
		552808.76N 0075304.92E		1649	
Horns rev	Mast	553119N 0074720E	197	158	
Horns rev	Mast	552912.3N 0075443.3E	230	159	
Horns rev	Mast	552914.2N 0075831.2E	230	160	
Horns rev 2	Wind farm 91 wind Turbines In a group	Within area	375		
		553337.72N 0073554.00E			
		553323.34N 0073248.45E			
		553852.69N 0073535.50E			
		553747.19N 0073802.35E			
FINO 3	Mast	551145N 0070936E	394		
København (Middelgrunden)	20 wind turbines in a row	From 554225.07N 0124006.14E	365	446	
		via 554132.13N 0124014.74E			
	Mast	554033.28N 0124006.15E 554206N 0123927E	158	1704	
Nysted (Havmøllepark)	72 wind turbines in a group	Within area	361	415	
		543410,23N 0114002,16E		429	
		543336,26N 0114534,81E		430	
		543131,62N 0114534,80E		416	
		Mast	543224N 0114441E	158	446
		Mast	543312N 0113914E	226	1705
		Mast	543207N 0113948E	226	1706
		Mast	543222N 0114724E	226	1707
		Mast	543205N 0115008E	226	1708

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	REG NO
Rødsand 2	Wind Farm	Within area 543500N 0112908E 543344N 0113701E 543135N 0113701E 543416N 0112728E To 543500N 0112908E	378	
Vindeby	Mast	545758N 0110734E	158	1702
	Mast	545745N 0110815E	158	1703