

New Wind Code CoP2019

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The Code of Practice on Wind Effects in Hong Kong 2019 was released and enforced by November 2020.

SADS v21 add new Wind Load CoP2019 Sub-command to generate wind load according with this new code CoP 2019.

Wind Load CoP2019

Wind Pressure | Along Wind | Across Wind | Upward Forces | Wind Combine

Wind Pressure Data

	X+	X-	Y+	Y-		X+	X-	Y+	Y-
Height of reduction H_d	2.500	2.500	2.850	2.000	Wind direction factor S_{θ}	0.850	0.850	0.850	0.850
Ground level	1.250	1.150	1.650	1.750	Topographic factor S_t	1.000	1.000	1.000	1.000

Main roof floor, excluding the irregular roof features: RF/F

Wind Pressures

Floor	Level	$Z_{e,x+}$	$Q_{e,x+}$	$Z_{e,x-}$	$Q_{e,x-}$	$Z_{e,y+}$	$Q_{e,y+}$	$Z_{e,y-}$	$Q_{e,y-}$
UR/F	55.900	52.150	2.191	52.250	2.191	51.400	2.185	52.150	2.191
RF/F	52.700	48.950	2.168	49.050	2.169	48.200	2.163	48.950	2.168
13/F	49.500	45.750	2.145	45.850	2.146	45.000	2.139	45.750	2.145
12/F	46.300	42.550	2.120	42.650	2.121	41.800	2.114	42.550	2.120
11/F	43.100	39.350	2.094	39.450	2.095	38.600	2.088	39.350	2.094
10/F	39.900	36.150	2.066	36.250	2.067	35.400	2.059	36.150	2.066
09/F	36.700	32.950	2.035	33.050	2.036	32.200	2.028	32.950	2.035
08/F	33.500	29.750	2.002	29.850	2.003	29.000	1.994	29.750	2.002
07/F	30.300	26.550	1.966	26.650	1.967	25.800	1.957	26.550	1.966
06/F	27.100	23.350	1.926	23.450	1.928	22.600	1.916	23.350	1.926
05/F	23.900	20.150	1.881	20.250	1.883	19.400	1.870	20.150	1.881
04/F	20.700	16.950	1.830	17.050	1.832	16.200	1.817	16.950	1.830

Calculate Save Ignore Close

TESTDATA CP2013

For compatible with existing old project, **SADS** retains the Wind Load CoP2004 Sub-command to allow users maintain the wind loads that generated by Code of Practice on Wind Effects in Hong Kong 2004.