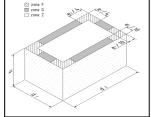
Summary - ValkPro+ L10° South UNITED KINGDOM Customer Mitie Ltd **Project UCLH** Date 03/12/2021 System type ValkPro+ L10° South Wind deflectors Closed system Foundation type 72.96.22 Rubber tile carrier (click) ValkPro+ Foundation setup Normal setup Number of coupled system frames ≥ 9 pcs Dimensions solar panel 1038 Х 1755 mm Pitch of the rows 1500 mm F_{syst} 274 N System load by own weight (frame and panel) Wind area on the system per frame \boldsymbol{A} wind 1,822 m² System surface on the roof per frame A syst 2,648 m² Contact surface per foundation A found 0,01875 m² Location Wind area 22 m/s Terrain categorie Country Α Altitude above mean sea level 26 m Distance upwind to shoreline d shoreline 70 km Exceedance probability 1 / 25 jr. 938 N/m² Wind pressure (incl. c prob) **q** p (z) combined Net pressure coefficient middle (exposed) C p,net (Z1:Z4) -0.14(by wind tunnel research) middle (shielded) -0.09 **C** p,net (Z5) edge -0,17 **C** p,net (G) corner **C** p,net (F) -0,17Snow zone Z Snow load s 267 N/m² Shape coefficent 0,800 μ1 CC2 Consequences classes Reliability factor K_{FI} Reduction factor unfavorable load 0.925 ξ Factor unfavorable permanent load 1,35 V-G Factor favorable permanent load 1 **/**+G Factor unfavorable variable load 1,5 γ-Q Factor favorable variable load 0 **/** +Q Combination factor (snow) $oldsymbol{\psi}_{0,s}$ 0,5 $\psi_{0,w}$ Combination factor (wind) 0,5 **Building** Building height h 40 m Longest side d₂ - m e₂/10 8 m Width roofzone strip F and G 20 m



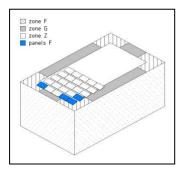
Length roofzone F e2/4 Concrete Roofing type Coefficient of friction f 0,6

NOTE 2 Value e is the smallest value of 2 x h or d.

NOTE 3 The zone dimensions are different for each edge. The can be filled in separately.

2.0

Zone F - Corner



Extra ballast per peak $G_{combi}(F)$ 45 kg

Surface load per peak $P_{syst}(F)$ 270 N/m²

Number of foundations $n_{found}(F)$ 1 pcs

Point load per foundation $P_{point}(F)$ 38 kPa

ATTENTION Systems in zone F has to be installed with Mass carriers.

ATTENTION Contact the supplier, building height is above 25 m.

NOTE The surface and point load is **not** provide with wind and snow pressure

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