## THE QUEEN VICTORIA MARKETS.

## DESCRIPTION OF THE BUILLDINGS.

The Guoen Victoria Market buildings are to be opened toeday. Subjoined ts in description of them :-

IMPRESSIONS FROM THE OUTSIDE.
The site cecapisd by this magnifionnt pile of buildings is an oblong qusdrilateral, bounded by four thoroughfares, hasving frantages of blott. 10 in, to George and York hireets, D9ft. to Druittiotin. to Georke and 2im. to Market-itreot. Ar a constreet, and the great length of tha main fronts it Wha found necosoury to more particularly eaphasise the height, and this fact accounts for the preposdernmen of vartical rather thiti horizontal lines ia the fachides. The design is a motition form of the modern Romanesque in which the massivenpan which givas the American Romanesque ntylo no much of ita effective foree has been sublued. In eonsequence of the whole of the ground-tioar frontages boing devoted to shops, topather with the necessity for provoted to shops, togather
vidiag the largeet ponible show-window space. but viding the largeet poanible show-Window space, but
litule opportunity wan afforded for architectural litule opportunity wan afiortued for architectural
treatment at the atreet level: Fct the mavairo trnohyto piera, with their hesiry cushion capitals Which immediately surpport the superntructure, atrike a dominant note in the goneral ardhitectural character of the building. The main facuden convint of a large central block which dominatea the whole pils : the enda of the block being emphasised by pavilions or towern, murmounted by mall domes, the intervening lengthy of the fronts being relieved by smstl aub-towers cappad by cantal domes. The prodominating feature of the whole block is the rasian central domes which has added a consplecous featura to the architnetare of Syduoy, and is promionent ove to the aryline. This, the largest dome in the Nouthern Hemisphere, ia nearly 62ft, erterual diumeter, and with itn cupola risso ta a height of 1907t, from the parement, the imposing group being tisnked and gustained by typioal towers orowned with mallet sustained ig typicamiots. At the level of the apringting of the dome proper is is pllery protnenade nuping of the dome proper is a prilery protnenade aup-
portod by a bold arched onrbolled oburse, ant which extends round the whoie perimeter, access being obtainod from an interior atairense ofarting from tha second floor. Froma thin gailery it magniticent pancramic view of Syduey and its environs is to be chtaitied. The drum of the dome is ptareed by a number of windows neparated by characteristic fas: cienleted piers consected by nemi-circular headed cinulated piere consected by nemi-circuminsaded arches, and these wiuchown sorve to inuminte the various Hoora in the interior of the buificing at the onatre, Nearer the street level the most promizant fosture of the central block is the great memielrcular arch over the main entrances, 32 ft , apan, and $43 f i$. from the ground to the intradon at the crows, and wringing frow hevyr freestone abutments. The nuwsive polished truchyte columnn with Gruamental bronys cape which trivect the enTrance in their tura support triple sub-arches, Prance in thear cura support eniple soberit of the
betwen the crowns of which and tho sofit between the crowns of which and the somit of the
main arch if a hand a stouble row of radiating polishel traehyte columps With carvod eaps and connected by arch-heads, the Whole beipg filled in with elaborately stained glasa of a character in harmouy with the reat of the derigu. The apanalrils adjoining thest aseber are richly earved, und ubove an intervening suing or corbelled cornioe is a carted and corbelled pedontal, which is to nupport a sesiptured marble group that is how noaring complotion. The end blocks ter. is how noaring complintion. The enichocks tar-
minaty in doares and angle turrcts, minaty in doures and angle turrets, which are oup-
ported by corbelled bustions. T'be upper portions of ported by corbelled bustions. of the whole desigh with ther long, uarrow win: down, meprarated by tuscicles of slender abaits, and the anglo corbela sbove: the treatment of the interjwent hay betwean these towern is somewhat difforout, hsviag a largo projectitr orial and window openings above, with atunted columns. The facudon openwings the end and oentral blocka ure divided up into triple buys, with fascoulated pieril supporting nemi-cireular archen with roek-faced vounsiors, the oubtomers and domes occurrugg betweeb thene hays iseing troatod in a manner nimilar to the contral and ead towera. Retiof in the immense lenerthe of thene main

Ireatod in a manner nimilar to the cantral and end towers. Reltaf in the imasuase lengtho of thene main facadea is obtsined by meane of reciessed hayg, which alion nerve to emphavise the moro important featares of the goneral design. One of the most salient features in the feanden is the immenne urcuced' corvice, aupported by its nich frieze, ubder which is an omamentui corbellet colrse. The effect of the main central eutrances is onhaneel by the orammental wrought-iron gates, 12lt. high, which were made to special deaigne.

## VIEW OF THE INTERIOR.

The prinespal fenture of the jaterior is the apecious areus, 32 ft . Wiils, which exteads fram Drnitt to Marlet strecta, boing intersected by the transept which coanseta the maiu cantral eatrances from Gearge and York streetn. The shopa front which sbut oa the ground floor of the avenue are neparated by colunus with ornnauental cushion cajp, from which aprigg aernicircular arches, undor which ocour the ornamental show windown, the upper portions being glated with parti-tigta of enthedral glassa On the apandrils between theno arches are ornamental metal corbels, caring the ends of the girders nupporting the firnt-lloor gallerien. The whole of the ground floor of tho avenus and entrinces, at well as ground foor the inodiaga throaghout the building, are pared जll the inadiuga throaghont the building, are pared
 petterns. On the Arat and esocind ioors the avones
is wulenid to 42 tt , thus affording spacious gullery accommodation to the vanous warerooms, offices, de. The light to to the uvenue and galleries is obtalned from the semi-circular iron roof, which is glused with manded rougit plateglass, $f$ fin. thick, laid on platent bars. The opme botivoen the roof-lighta and the large ornemental coraco, which exteand rogend the whole of the interior wall-face of the avanue, is thed with mbosted ornamestal muld stepl panele alled with emboased ornamental mild sieel panoil diviged and mbdivided by mouldinge of tha asme
 and ofices, tu., ou the trat and mecatid Aoons have ornamental codar giazed screens, With turned columis uad capp and meni-eircular aroh heads, the fanlights being glazed with delioato leaded lighta and thene sorvens, with the diviting fascicelated planter piers, prasent a light and decornative appearmenes to the faterior, Which is heightaned by the ea: cellont sehemes of colour observed throughout. It is at the centre, under the main dome probably, where the cuormous aixe of the structurn niakes itnelf more easily apuarent than in the avenue. From the ground tioor, looking up through the eircular wellholes on the tirnt and sccond floors, an excellent viem in ottained of the apparently suparpoised inner dome 1065 . from the ground floor, with ita deliantaly-tiated glasa tilling. Irom either of the floors, through the double and triple arehes ancloning the central block, are to be obtained glimpoen of the main ntatrouset from Genorge and York streste, ascanding to tho upper floori and desceadibg, to tho basement, with double fights Ett. wide in each caseo ; and these, with the coloure of the stained glase in the immense wheel windows over the main entrances, prenent, perbaps, the mont effective groups to be asen in the interior of the building. On two eecond floor level the great semi-curcniar orches and panelled berrel vaulting apring from the immanoe piors supporting the main dome, and tho lasge plantered mural surtacen abava are relieved by myun of an elaborate ournice and frieze, formed of eyluodrical oramental shafti supportiog richly ornamental serni-aircular panel.

## A HUGE BASEMENT.

Below the ground floor of the buldiag, and extending over the whole area of the site, is a large busement, the height from foor to csiliug raging from 18ft. to 22ft. For the most part the exivavationof thit portion of the work, oquivaleat to about 55,530 eubso yarde, wan made through rock varying from sott to hard. It order to prevent the possibibty of dampresen, the whole of the besement it enclosed by damp-prooi retaining walls of two theknesses of $1 \mathrm{i} i \mathrm{in}$. briokwork in cement, separated by a vertical dampooare extanding the full height and a horizontal dampcourse nt the floor level, Afraingt the outer face of the wall is mandatone ballast handpacked hatween the wall and slope of soil under the side wulk, and extending from undersidn of the pavesent to rock face, whera in laid a continuous porforated drein, connected it intervals with the draiue ia building. Inside these wails are taagnive piers of brickwork in eenent, which support the oxternal piors and walla of the nuperntructure is at
oxternal piors and walls of the nuperatructure si at the epatre are the auge masues of brickwork which are carriad up to nupport the main forme. The basemetat floor is laid with an average thicknpzs of !in. of cobcrete, on this is llouted liaia. of cement and Nepan sand, and the floor is flashed with lin. of specinlly prepared asplait, The groutad floor is constructed with main box girders running trangverbely, $2 \mathrm{ft}^{2}$. fin. deep und Ift, fin wide ovar the Forseiy,
fisnges, ind spacell at sbout 16ft. centres. These are supported by two rows of cant-ivon columins of t20im. diameter and $7 i n$. metal, having bracketed epreading onpos to which the girders are boited, the column baees being holted to large truchyte foumdution beris. Thestreet endis of thess girders rest upon and are bolted to myocinily designed cuatirgis stanchions, which are also bolted at tive bnses to trachyte bede. The flooring is formed of fireproof terrs eotta Jumber 15in, doop, the undersids being terrs enta lumber lois, deop, the undersids being
plastered, und forming the centing of the lasetanat. Unistered, und forming the cening of the of this ferru cotia lumber conerete is
 with cetaent and finisbed with an elaborate pavemeat of high-ol us encanatio tiles. The lighting of the basment is effected by meanis of a large numiver of priamistie paromaent lighta uid atall-board itghta under the thop fronts, as well as circular pavement Hights which recur in the psvemont of the avenine, into the tile pattern of which they ure worked. The into thestion pat the lnasement in effocted brymeaps of voatiation of the basement in efiocted brimeans of
16 harge potagon ahafts which are earried up the 16 large petagon ehafts which are oerried up the
whole betght of the bruekwork at the ende and centre, and will bo provided with all necospary ox haust and duct epparntus, the shafts lienng aimo consected with the upper lloors. With the oxception of the briek piers ind arches under the main dome and sentral block and the walla euciesing the ataircase blociten at Druict and Msarket atreeta enda, the whole of tho wan internal conitruction constista mole of tho wan

## PEATURES IN CONSTRUCTION

Oa the firat floor the mait transverso girdars are carried an riveted steel stanchigns, which reat on hesvy cast-iron boxes necared to the top of besvy cast-iron boxes ncoared to the top of
 fioor girdors ars amated on wrought-iron bad-platas on the top of tracloyte piers. While the avenue eads projeet beyond the oupporting stanehiona an eantilevers, thus forming the gallories. The second floor is conatrncted in a very umilar manner to that of the floor below, excent tlat the cantilever eade of the transverse girders have a much greator projec. tion, owing to the difforent diapowition of the supporting stunchioua. Tha whole of these floors nre canstrueted with tiroproof terra cotta Iuraber. The mais roof over the s venue is formed with a neries of lattion sami-circular steel trussen. The veritiation is effected by mans of metal dust-proof lanvren. All of the of apr poois thronghont arp gonstructed of timber freming oarried on wrought-iron girdars of vatious sixti. The main eentral doun ts 61it. Bits in dismater, with a height of 71ft. ibin. from the iron bed-plate to the top of the cupols

dors, joiste, Ke*, Througnout tho panangh are come pletely enctaed with firoproof terra-cotha lumber all the internal pibrs, avenue columns, Ke., boing formed with thin material. The avetute columan are tinisherl with Kan'a cemnnt. The sortsices routh the gallery fronte ofe of xinc: all the ornamental the gallery fronit ofe of ainc: on tho ornamantan
nlastor work is of fibross juater, of which the plastor work is of fibrosi puapter, of which the
coiling of the concert hail is a noteworthy exampie. ooiling of the concert hall is a noteworthy emampie.
Thie building is narved by six fireproof stairames, Thio building is narred by six fireproof stairamen, upper floorn of the buildiog. The starrasaes at the ende of the building, fromi the ground four upwants, ere formed of treahyte tailed into the walls and oonstructed as hanging lighta. The central stairesse on the York-ntreet side is oonstruoted in muique maniner, vhers the witadiag llighta and half landivetenre carriod by ntrings foctund of shmped wrought-ison girders; the cantral staircanes from the ground to tbe first floor on the Georgo-stieet side are constructed with freestone waile and otringt carried on piers, arches, and columie with cerved capitaln, the stept being alno of nandstotio with heavy wiate treads. All the stairs to the basemnat are formed with matantone etops and siato treads. The whote of the staircase isndiags, and galleries throughout are fininhed with wrought-iron balustrading, aud heavy-moulded and polished haudrails. All of the exteraal walls, which ure exocuthd in the beautiful colourad freestons ohtained from the Waverley $Q_{\text {ussries, }}$ are carried by vary heavy box girders over the abop fronts, and rosting on tho larke tringyto shop piers. Theat girdera are ㄹit. Byia. deep and Ift. thas. Wide on the Comer fingge, the upper flange baing $2 t$, Bin. wids, and the mirends beyond the weble are ntiffened by angled t atiffenern. The whole of the joiner worlit thgied tatifenerg. Then whole of the buiding is constructed of apecially selected and Wril-meacoaed oedar.
The approximate quantitaes of bufling meterial ased in the conotruction of the edifice were an follown : -Concrete, 3975 eubue vards: brickwork, 4] million liricke 1141 rods; trachyte, 23,380 eubic feet : Iresatone, 256,253 eubie feet: ironwerk, 3010 tong; plasterizg, 55,418 square jards : glazing in roof, 6382 kquare Fiurda; torra-cotin lumber, 29,040 equare yards: tifing. 6050 equare yarda: apphalt, 4500 square yarda: priamatio lights, 3420 equare feet.

## LIFTS AND ELEEVATORS

As the basoment aroerally to to be largely ntilined as a Wholemale matiret, the primary enential to be consudered was that of rapid and easy cotrmanication. This meenemary provialon oould not be more remdily afforder than by the hydranlic cart-lists from York-street, which will afford epecial facilities for deacunt ased asopat of a lomded ourt with horos. These cart-lifts, of which there are four, have an average travel from the atrent to the hasmment floor of $227 t$. Sin., and are eonatructad to raime a load of four tone. They are of the simyle dirset-acting class, with one lifing ram, and aro hydraulic baianced. The average size of the piatforms is 24it. I 13ft. On the street levnd and at the hasement floor, tho entrancen to tho lifts are closed by means of folding wrought-iroa gates, and the onds of the platiortas are protected by means of heavy ohsias extending across the fall width. Elactric communication of the very latest dexcription it aliso provided. The pasaenger elevators, of which there are four, nre of the raspended and aimple olank, the travels of the cers in all cases sxtending from tha bapetuent floop. The carn aze eaclosed with delicate ornamental metal mork and Bostwick aud alidiag gites at their entrasces. Tha power for working the whole of ;the eievators, esti-IIfta, and dipmer-lifta is obtainod from the plant aituated is the besement at the Druitt-ntreet end of the building, and which is of the anant modern and complate character. The pressure water generntiog plant, comanting of three threv-throw pumps, is cspable of delivering 9000 gallosen per hour against a prosesure of 700 b . par equare fuch, the mative power being obteined from thres 14 n.h.p. Cionaley's "Oito kna eagines, Whioh, together with thy pumpa, are arranged no that they may be drwee singly, together, or any two together. The aceumalator to packed with mbout 100 tons of naudntone. The ram is 201 w . in diameter, and has a maximum atroke of about 14 fh .

## ACCOMMODATIOS.

The spacious tioor aros of the basement in maialy to be utilised as as market. On the ground floor are 63 shops, varying in size from left $\geq 15 \mathrm{ft}$. Gin, up to sift. $x 36 \mathrm{ft}$. Tha coffee prisoe is Nituated at the
 to 3Aft. $x 36 \mathrm{ft}$. The corfee palace is situnted at the Druitt-atreet ead of the building. On the flrut foor aro situated 17 large rootns of viarious sixes, suel having Fundows facing the street, as well as the handwome glased acroens fasint the gallery over the aveane. The height from floor to oeitiag of all these rooms is 1SIt. Uin. On the recond floor, in addition to 12 warmrooms, offioes, or abowroome of prachicsily the earno disposition and varied aizen an on the floor below, there is at gallary about 162 ft . I 25 f . auitable for picture, aunipturs, or other art exhibitions. Off thim qallery, and conanoted with mame by moans of two epirial ataironses, aro two stortrooms. Adjotning the gallery is at amalloz gallery, phioh may be aubdivided fito artists' rtudios At the Marked-etreet and is a large hall abont 91ft. $\%$ stift, wide aged 43te. high, With an orvimanial cast fiberas plastop celiling and sbusdanes of light sud vantilation. Thia ball may be utilised for comoerts, balls, basquets, pulblin maet. inge, ke., and is ostimated to seat, walusive of platforn, about 160 is 600 people. Donnected with the hall are commodious retariag rooms. Da the third floor is situstedjan entensive maiteiof spartmenta forming \& mont complete photegraphic gallery.

THE CONTBACTS.
Contruct $N o, 1$ : Exaspation of pouthern half of besoment and brict piers, 211,697 198 1 d ; contrse.
 tirs, Mesart. Thte and Lawler. Costract No, a :
Iron columns and girders for ebove, 257598 gd :
 contractor, R. Tulloch. Eicavation of northera hat
of banement by day labour, under direotion of the of banement by day labour, under direotion of the
city architect, 24192 tia 1d. Contract No. 3: Brickwork and trachyts for northern half of banement, C2992 ; contructors, Massis, Loveridge nad Hudion. Contract No, 4: Ironwork for northern half of basement, E4351 ; contractora, H. L. Serutton and Oo. Contraet No, 5 : Racestion of superntrecture and oompletion of basement. $£ 203,000$; coskractory, Mesarn. Paippard Brothers. Oontraet No. 6: Hydraulie elevatorn asd cart lifts and machinery, \&co, $\mathbb{4} 10,285$ : onntractorn, Waygood Elevator Compeny. Contract No. 7: Inonpdercent gaslighta and gas uro lanterns. Sco., E1591 14s 6d; contractorn, Mesarv. F. Lamaetter and Co. Contract No. 8 : Finimhiog of basematht finor, \&e. 44981 ; pontraotors, Mesars. Phippard Brotheri, Contrict No. 9: Giestituagn, E1175; contractors, Messer. F, Lasenter and Co, The groups ef murble whituary, which are to eant $\mathbf{z 3} 300$, hase been denigned and modalled, and are bainit exeouted hy Mr. W. P. Mncintosh. The whole of the work in convection with this busldrser has been designod by, end carried out under the immendiate aupervinion of Mr. George M+'tas, the city snohitect. The ehid druftamase engagnd it the preperation of the drative iagn in connection with this work wha Mr. James H. Merriman, the olark of workn belag Mr. W. Tough. Tho comealting snd rupervising engineer in connection with the iroowork and machivary wras Mr, George Mavery, M.I.M.E.

