NOT ONLY DO WINDOW AND FENESTRATION SYSTEMS DEFINE THE AESTHETIC LOOK OF A BUILT STRUCTURE; BUT NOW, THEY ALSO CONTRIBUTE TO ITS ENERGY EFFICIENCY AND THE WELLNESS OF ITS INHABITANTS

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 by Uw bulding's stevasians and the forwiration


 fresetration design to be a mator campowent in activeving vneqy effidency.
Whabow eytiven haday are evgineved with a delinutive
 expremion but alm embator the encrgy elfickncy, and

 Bien design and window syatums av at bisir noet imenca tives and functionally proficions, tage totey:
Wiralows ystern play mulliple rule including supplo ing denfift providing viewh, atcing as ventlathes, nowe and beet inutaton und हुler protectors. They not only add
and ectivetios but are also a significment comp comet of heting and coniling cosk Buiding ownes ept for the most eflic)
 eneng efficiany of the buililing end thenby is sperational Tost
Trendieng terws libe 'smarr' anel higherectormanor Winduws' anv nevelutanising tive ferestratiox industry to pew ape tailidieg protucts whith ame mave alapilive. weponsive to the enviromient and fire occopanti.

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Under the high perforning clecpipy, we hure the product Unch as the 'Thernal Brouk Windows', ntich is a makre inavetian that addeveses extivme comanac condotians with has andind sound as compured to spot profiles.
"Thermal Break windomen are tightly stut to cui down

procisely inaulbed in mummers and zlac canalis of of
 iwen the profles and the usage of bigger pumele telpo in schieving tigfore themal effocercy, Instabsten of thermul break windons aloo assits in LLED artification of Green iluidinga," veplains Atin Thacher, mateting diretios Cont Aluminis
Conk Aluminiume' latest iemoration in SUMO rane
 den in the trame teelf. All you see is ane dear tash These Whdows are equipped with concoled hack mpern and targe
 oudetice 14 max only prowides a one-touch emorth operation roundines. Alangide asthetion slime erves have popprtim
 cosaring good functionality and making your hawe feef comitartible.
A great deal of cumamer satisfaction is dewned in the use of divC whith made it tor moet rearevs and coman:


 ghaing decrasee the sound travemistion med twe U-valuw af the unit digesificantly. Heving at eqpected lifegun of 35



## key factors

With the ruveriscreaing number of towerings ylare mol










## 17,44, Ruepm

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mivilamay Goibi

truits Geit Hisme.


#### Abstract

 the hesting med eoving ecyuipuent. Thas, although inits . sivinges are made with a reduction in the purchase price of vuntertalance the initiat ap opel ceec. The derign of an eficient levestration beyine ty deflimen Key Pethermance Indicatoss OPD for the building depending cen its keation in

Proger arentation allows for pasive welar goin and daylighting and reduod hast painfices wheress be apperpet- ate window -towall ntio will allow for a proper bulance tetween the degtight and the hast gaikfloss tlererby aptumiangs.  Clowerns ef rijht materials for windows coupled with the ype of smome und fer the inetallatien of sech materials makes a large difference to make baildings enengy +ficio


anabied arctuwas and devenes to expese thet indinutions and iteceigee in distinctive ond indinitual manners far more casily them eeve tectore This trads to the importano vailatic and boting able to chocese the most appreptiate and costeftoctiv solution for the mievaat builiningh. The core functiansl iden is bo wark witb nature raiter

 af ystems that maters the exos. Typlat gioss walls mosi


 yotems that seal out tbre wind and rain, and yyterss that ofDentur, AICOA
Hestoc, Alcon
that prodeas nodection in lidendial wrticalk, we have foxind

 operate and doows mid windonian that is easier to une and atitaction This has ind to grouth in nereer pratuati meer


Coximieng on the same divend, artures Alkersa Gertimi. vartnes \& prodect mannger, Gotlint. memtions that "Depend. img an the destinatians of use, the windores lave differoot churatebitios These duraderistio useally coosen the masicial the tppe of profis, and the acoubbichier mal petcomaces. Woad is more veed in the evedidonial whise chaminiam in the office asal hoted wetber. Howver, thmint
um windoux with some wer thin and nethetically beautity profiles ate it well in reatentul. The cheire of the ceseign of a widow depends on the style of the profect and the intenss that the ardutiod han themight of. Nowadays the windows henv differnent eentextic lins thal well adepo to the different styles of the luwers fum moden to dasicit is the architer wha deoder wier windon hyd to dowe ehich in turn

MAJOR INNOVATIONS IN THE FENESTRATION INDUSTRY:


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 atued heoty 4 mon



 The catbees

 Chetor ma sioththee ex white






## innovatons

 terms of functionality and performanco. Adverence to sticicssenergy and quality prameters and norms has given rise 10 mew robum, energy etiscian, imnovetive and adoplatle whebw eperes. "Thw major innovation in thew worla of windons tadey is the cr kings dibe to crate wey legpe wirndumn with rety min p. Aberto
The plas induatry, wath its crathamemhip and moderi
 tion -Tansicuarly impressive ane soler power generationg Windown called Transparent then alters their hight conem:
 theat sualicht er willoge. Ancther mind bikwing innuvation


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12 mer beeth (aners mome hinerax Ganns Sbevilien

Istive Trançarens display technestogy that turna an entire cosesor windom insoa metion diaplay peosl witbosit it
 Wimbuws \& viler high cuntras peopectuen dipply," menenis Sonali Asber foundec. Hadienda hubrier Archiberts Heme is our seleter and sanctuary which must be
 vabious burglary mistane does RC) ranging froen RCI to RCL mecting the highest smety and ncurity standerds. "Schuect very dorthy will alos be offering enti-micrutian bandles and proftes with higlsppurity micro silver partictes thet are incopporated info the surface inids germs that coove Ieto cantad with the surfav die ad end athidenty pevent
 grme,"reveals Ayar Daned national manager. Kesidential Eutices, Scturao India.

## CHOOSINO THE RICMT PRODUCT FOR THE

 *онт spactWindows are the gatewars to tre cuiside wertd in between the hectic and monutornus hame and wouk
schedules. Cantrolling slare and incresting visal : is a comtributing factor lo satisfied woriers and increased prodarivity. Solat sawen window treatevensi gai glan out compuiter and medla screens hecresempg produrtivity and the qualisy of image. design and derical work, witheut citting of the reew through the window, In the heallicen
sectac endene-besed design rewerech las showe that

day lightang not anily wdaces energy cots but enthanatow huadiag envircoment, providing heulth tenefits io
 ment Solar screen slader privacy shader and trandsecem folles shades are an important day lightirg cousponent in hospitale.
Atin 1
Aut facion thei anm Covta Aluminum, spelb ous the vart
 and usebility are the bivee most atitical facton Use of mulapaiss bexing in windows provides addiainal security mad impored occupaun sense of satady. Ease of operation for regular usege of windows is ales an imporimit atierion for widiontal windons
While men the orther
What on twe othert land, sound intulation pless a very privety for offies sime tivy are usually bcated on buey atreets buekling with activisies Loud nolses mexp impa the ofhae spuce tiveught dowss and windows caseing distartuncen Wheve sound proce wisdows sev ideal.
Nois in hompials mod medical facilitec has a tignificom impoct on putern teeith end an staff welliverg, Sound Inanvioxument. it plays an ingeortimet noke in suppurting saifty, fraitit healing, and well being far all ocoupants.
Another aped lere is tus the tivermal innulation. The
puppee of thermen inculation in buibings is to maintain
a condertidto end hysimierindoor dimate at her ambieen ispecatune: A dovel, melifnuiatid window wilkelp
hifler than the insite temperatur

 Ind pertect inves duse, never and poilutkn meanaiming moult in in oreud da tiph and make pernew

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Contiming on the sume lives Alter wids that "Be it hunse dicur ur camusercial speecedecur, plass solution! have takm over the traditiand options, Class has been

 and haspichs all heve disetincive demands. Dependirg on that retetion of shes is of parmoneurt impurtance as it phay an important part in the mestivetios. A redidence would wam to capture 4 paturnsque rew with foor to asiling glow wirn domp while a hotel kitby would desin 4 itylid atiom. An offor would oqpuire the soundproot option white hoopthin wetfer a yarkty of gerimes tor cur varied privecy and antlutir speafications." The market ta highly equipped and contimowuly emee ias Dowgnens can taday choose from a diverse range of traction, hiuh pertormencr windows are pibying their part in cextrituting to seving emergy and cowts and at tre mame time cruting Aexble cumbariatle ambiences. mot

 abkuit a doxade now, by the Gren huibing movement to bo at creative ways to minimiow energy cost and enturce the
 bedwology hus moved kwards sublaindility, comiort, ats encrgy effowncy. This bestremsty sienificurt boed an the
 an effective and hipter level of prown building ranking, the HVAC sywan shauid net enly met the nerm on enengy
 vation Buildien Cobes (ICNC, India
 Crocker it busincs unit fead - Livigg Guvinxesent Diviakn Mububidi Inctric india states eut Tre exoxpt dy grow
 Thev are thre by tarelts-done and hyprenic enivonmeme.
 toiltiry hring mutbije texfits. This indube addrosing dinate change, creving sutainste and thriving cemmunibe axd divinge cunconix grouth this means mergy efficon
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shbul vputaties for higer perturmanoe standants uween-
 Indan Geren building spoce. The induetry is widely en the outbok for testinologks then can factur ha aposs tace being
 partornance-COF', ber eneggy axsumption and tighty nolither (liss downtime), "One such unigue teature is when a
 the dore ter intulled in smell spass teo. This offen e quiel and combinable envienenent, "rquiuns flocidaws Thew mev ewerat ether options availato if cew whene to
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 bod at catwethe odterg conmuled har unaller commeriul

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## maintaining tha lac

Kiylu betion the pondemic hill us indear air quality has be-

 And bee IVAC inderity plyyed a cridid tole in help aid this moverient. "As building destifn end as envirenmest tecome mare comples, spurv Stermal aedan and dauateriaios Abo becowe coeplex nytuse of varied control metbods A technolegy advemoss mave and mory products them allow


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CASE STUDY:
AAKASH HEALTHCARE-SUPER SPECIALTY HOSPITAL, NEW DELHI, BY CDA ARCHITECTS
















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 extange wevtibtion system the wes pager clurateristion maintain appropsiate humidity and temperntare for propie to stay comboratie.
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