CI/SfB (31.5)

CI/SfB (22)

CI/SfB (31.59)

CI/SfB (23)

CCN:IIS

Integrated Interior Solutions

SPECIFYING

DOORSETS

GLAZED SCREENS

CUBICLES

HARDWARE

PERFORMANCE IN DOORSETS

The CCN range breaks the building into performance zones. This is carried through to the CCN schedules, supported by full coding within Certified Fields of Application.

The CEDor product scope is arranged in three tiers, to satisfy increasing levels of performance or design:

- CEDor ENSIGN - HIGH PERFORMANCE Field of Application
- CEDor STRATUM - EXTREME PERFORMANCE Field of Application
- CEDor GENETICA - DESIGNER doors tested to the project specifics

CCN HAS DEVELOPED A DOOR SCHEDULE TEMPLATE FOR THE USE OF OUR CUSTOMER BASE - CONTACT CCN FOR YOUR COPY FOR THE PROJECT IN HAND. See: www.ccn-uk.com

BESPOKE AND STANDARD SOUTIONS

The door ranges further extend with two additional levels of service, in complimentary product ranges from the CCN stable, for lower budget heavy-duty market segments.

DuraDOR: Bespoke doors to a specific Field of Application for the **Student Accommodation and Care Home markets.**

- **RapidSET - QUICK-FIX STEEL FRAMED, TIMBER DOORSET**

ServiDOR - Fast Track standardised door and hardware sets, on rapid delivery, for minor works.

All CCN doorsets are fitted with CE marked hinges as standard.

All CCN SoundZONE doors have factory fitted automatic door bottom seals, as standard.

CNC machining: A wide range of factory machining options is available for hardware. This extends via CEDor's hardware kitting service; factory fitting of these items, into pre-morticed cut out.

CONSTRUCTION INTEGRITY

CEDor door constructions are built with integrity, and finally finished with the highest quality decorative facings and lippings.

Solid core according to door performance:

- Fully stiled and railed skeletals
- Double hardwood headrails as standard
- High-impact HDF fascias as standard
- Hardwood, ABS and pu –durable lippings.
- Painted, Veneered, Laminate or PVC facings

NBSplus Specification Service: all CCN products are available via RIBA or online at the CCN website.

- L10: Windows/ Roof lights/ Screens/ Louvres
- L20: Doors/ Shutters/ Hatches
- P21: Doors/ Windows/ Ironmongery
- L23: WC Cubicles/Partitions

A GENERIC CODING SYSTEM

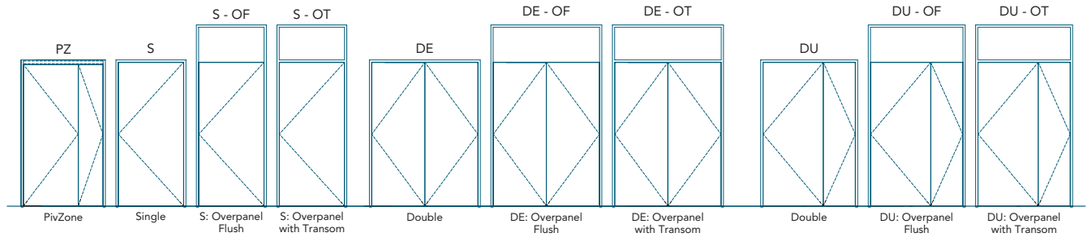
A LANGUAGE DEFINED BY CLEAR CODING

CCN have developed a language which fully describes and qualifies the product offerings. This coding is then carried to CCN's Door, Hardware and Screen schedules, drawings and specifications, shaping the "Package Bibles" produced by CCN for each project.

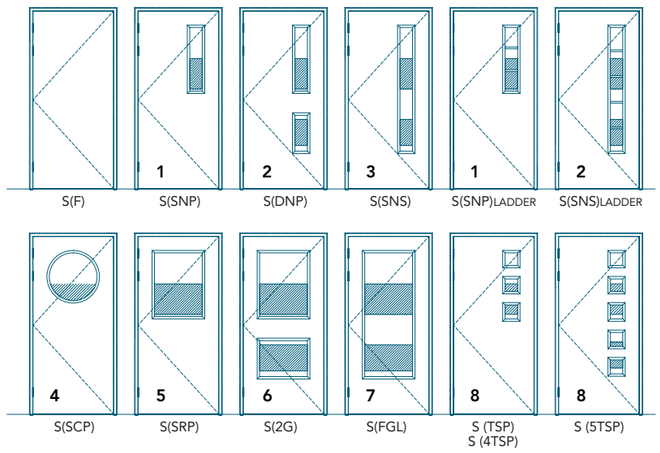
These CODES are also embedded and amplified in CCN's NBS plus RIBA specifications, to set the standard and discourage substitution of inferior or ill qualified alternatives.

NB: Most codes are universally used throughout the range but several apply ONLY to very specific products, such as WetZONE, RadZONE and CleanZONE.

DOORSET CONFIGURATIONS



DOORSET GLAZING OPTIONS



STANDARD GLAZING OPTIONS

Hatch denotes compliance with ADM/BS8300 for access

1 200 x 750mm
2 200 x 750/500mm
3 200 x 1450mm
4 300 and 500mm ø
5 600 x 750mm
6 600 x 750/500mm
7 600 x 1450mm
8 200 x 200mm]

NONE STANDARDS AVAILABLE - CONTACT CCN.

DOOR FINISHES

CEDor finishes cover all requirements.

Painted doors:
- Primed
- High quality RAL factory painted finishes

Veneered doors:
- Crown cut
- Quarter cut
- Rotary cut

High-impact doors facings:
- Laminate faced generally from the Formica PSM door range
  - Abet, Egger and most other ranges also available
- PVC faced – generally from IntaStop high performance PVC in smooth and textured finishes
  - Acrovyn also available
- Most CEDor finishes available with anti-microbial protection

FRAME FINISHES

CEDor and CEScreen have matched or contrasting frames.

Painted Frames:
- Engineered timber: Primed
- Engineered timber RAL: Factory paint/finished
- Hardwood: Primed
- Hardwood: Factory paint/finished
- MDF Primed for lower budget works

Real wood finishes:
- Polished Hardwood Frames: sealed, and lacquered
- Stained finish to CND beech hardwood.
- Engineered frames under real veneers, to match or contrast with the door - self colour lacquered
- Stained finish to veneered - engineered timber.
- Architraves – will generally match the frame
  - MDF is standard for PAINTED frames

CE MARKING; THE NEXT VITAL STEP TO PRODUCT ASSURANCE

CE Marking in the UK at this time is at best voluntary. Testing is being gradually introduced to facilitate the CE marking of a complete doorset. The standard for Non Fire doors (NFR) is expected sooner but, Fire Resisting (FR) and other doorsets are still awaiting ratification. However, CE marking of all relevant construction products will eventually become compulsory in all EU member states. This will include doorsets.

CCN believe that leading the way in this matter is the way to establish 'the standard', driven by good practice.

Public buildings such as hospitals, schools and institutions should be first to adopt the concept and **CCN will be encouraging specifiers not to wait for legislation**. There is a clear duty of care to deliver product fit for purpose with the best value for money, particularly when expending the public purse. . Regrettably standards in the UK are very broad and practice-gaps even wider. This makes it almost impossible for a busy architect to discern the difference between the bonafide and the cheap budget alternative - until it breaks down in use.

CE marked doorsets will go a long way to dealing with this matter and will become the preferred specification.

The value of a TRUE DOORSET from a single source is obvious.
Door leaf, Frame/architrave, Glazing, Hardware and Seals, manufactured, certified and fully hardware machined and fitted.

As well as compensating for dwindling site skills, this affords the Specifier, product integrity, material control and a quality that could not otherwise be assured.
That the whole unit is cross certified with CE marked components, brings tangible collateral to longevity and real value to maintenance.

Disparate components either fully or partially assembled into an "apparent" doorset, leave too many issues uncontrolled.

The CE testing regime is being introduced for complete doorsets (around prEN 14351-2 (NFR) and prEN 16304 (FR) doorsets) but designations and wider classification criteria for essential performance are not yet agreed. The industry is saying "Hopefully this will be resolved before the end of 2013".

CCN DO NOT INTEND TO WAIT AND HOPE

CCN's approach is to create single sourced, CEDor standards for Doorsets, CEScreen/ CEPlan standards for screens/partitions.CESpec standards for Architectural Hardware and Door controls are already mandatory.

CE

CCN will only use CE marked products where a standard exists.

CE FROM CCN

CCN: THE APPROACH

Independent Third Party Certification (ITPC) can be achieved TODAY, in a Doorset for Fire and Smoke-control.

This marries the Company's Certified Fields of Application for product performance, to its Quality Assurance procedures; robustly vetted by independent, periodic audit. **This ensures that practice follows the prescription and build standards of the tested and certified building elements.**

A specifier adopting this approach deals once and for all with the significant number of kit core and disreputable companies, who would otherwise be allowed to continue to cut corners.

This along with transparency in Severe Duty certification, Acoustic and other performance testing AND the incorporation of ONLY CE marked Glass and essential hardware, all from a SINGLE source, is the MINIMUM a Specifier should demand.

CCN IN THE MARKET

Requirements are advancing towards CE marking, quality and build standards are embracing the principles of EGAN and environmental awareness is growing, to a process of shared responsibility.

Specifiers and contractors need look no further than CCN for the right partner.

CCN: a company with the most reliable service backed by product, quality, capacity and scope.

CCN is a true market leader:

- Comprehensive product range and certification
- Advanced technical services
- Full design co-ordination, scheduling and specification service
- Huge throughput production capacity

GREAT THINGS HAPPEN WHEN ALL THE RIGHT PARTS COME TOGETHER.

CCN SPECIFICATIONS:

- NBSPlus
  - From RIBA
  - From CCN

See: www.ccn-uk.com

- CPD forums
  - Negotiating the Regulations for architects
  - Sustainable sourcing
  - Design coordination for contractors
  - Value streams to the Egan concept
  - Material control
  - Direct purchasing

SPECIFYING PERFORMANCE DOORSETS, SCREENS AND HARDWARE, FROM THE CCN RANGE

The following pages provide a detailed guide to creating robust specifications for CCN's vast product range, in generic and RIBA NBSplus formats.

CCN also offer a full and free scheduling service, working from any brief, recording architectural preferences and built-up from fire and acoustic strategy drawings which can be extended to the project specific NBSplus:

- L10 Windows/Rooflights/Screens/Louvres
- L20 Doors/Shutters/Hatches
- P21 Door/Window Ironmongery
- L23 WC Cubicles/Partitions

The process of creating LASTING specifications is simplified and facilitated by CCNs unique CODING system and the wide range of choice and incremental performance from the CCN: Ensign, Stratum and Genetica, product ranges. CEScreen glazed screens, CEPlan Cubicles and the CESpec hardware and door control ranges are also fully embraced. See: **www.ccn-uk.com**

RIBA NBSplus Specifications from CCN

CCN's RIBA NBSplus provides robust, sustainable product specifications, dealing with every application, configuration and performance designation required for the project, as well as a comprehensive address to Certification and CE Marking.

This process is outlined herewith, in relation to the CCN product range, the regulations and standards, to be satisfied as well as the best practice to be observed - see: **www.ccn-uk.com**

It also provides an opportunity for the specifier to IMPOSE the quality he/she will accept. This is backed by UP-FRONT evidence of performance, full consideration to site access via CDM and comprehensive address to the EGAN-skill-gap concept. Minimising site work with optimal factory assembly, to the benefit of quality and materials control.

CCN engineered doorsets and screens offer MORE off site coordination than any other product.

The process of specification and selection detailed herewith, follows a logical sequence CCN have a full NBSplus service. Alternatively, this can be accessed via RIBA's NBSplus service for subscribers.

CHOOSING A REPUTABLE SUPPLIER - SETTING THE STANDARD

The timber door market is regrettably serviced by a wide and varied range of product quality and it can be difficult for the specifier to differentiate. Similarly the extent and calibre of off-site design coordination varies enormously, from company to company. **The project specification should deal with this to eradicate sharp practice and an inferior, unregulated product driven by budget alone.**

The following notes will provide assistance in selecting a reputable supplier with quality product to satisfy the FULL performance parameters of the project, and the resource and certification to adequately coordinate the supply.

CCN have been described as unrivalled, in off-site design coordination.

This has been described by one of our specifying architects as **"Sound RETURN on the INVESTMENT in the time taken to set out the project requirements with a built in insurance policy of quality".**

The specification arising sets a very precise set of requirements. This promotes true competition, as well as **a clear and strict set of conditions to be satisfied, should the contractor propose an alternative for consideration as "equal", for approval.**

NBS: EXAMPLE MINIMUM STANDARD.

The following can be inserted into SECTIONS 110, 115 and 120 to ensure an even address and the elimination of inferior product. or a deficient supplier.

- Doorsets are to be single-source supplied for doors and frames supplied by the company owning title to the product certification
- Combination elements – Doorsets and Screens within a single opening – to be single sourced to ensure frame profile and species matching as well as common certification
- Separate screens to be sole sourced for symmetry, quality assurance and aesthetic harmony
- Evidence of performance to the full project Field of Application, to be submitted for architect's approval, prior to Tenders being accepted
- Warranty: Doorsets, Screens, and all associated components, including Hardware to be warranted for 25 years: normal conditions of use backed by robust maintenance regimes

NBS: EXAMPLE MINIMUM EVIDENCE.

This should cover; Duty, Fire-resistance, Sound reduction and any special performance requirements set out at NBS section 115:

- Door constructions to be fully stiled and railed with double head rails and hardwood, or high performance lips about a solid core with high impact facias
- Doors to be Factory Glazed with CE marked glass
- Door Lippings to afford LRV contrast to door facings to BS8300, where required
- Frames to be mitred with CNC-formed joints
- Frames to be fully assembled - not flat packed
- Essential hardware must be CE marked
- All mortised hardware should be factory fitted into CNC machined mortises with intumescent envelopes, as required

NBS: EXAMPLE MINIMUM DESIGN COORDINATION.

The supplier shall provide full coordination of the scope of works.
See: www.ccn-uk.com/design

- Doorset schedules
- Hardware schedules
- Screen schedules
- Door and screen elevations and sections
- Building interfaces - jamb, head and cill conditions, floor finishes and hardware coordination to BS8214/8300
- Sustainable sourcing – the entire doorset and screen assemblies must be certified from an uninterrupted Chain of Custody by FSC/PEFC

SPECIFICATION

CONSIDERATIONS IN RAISING A SPECIFICATION

SPECIFYING THE REQUIREMENT

The following code and selection system builds into an effective definition of the PROJECT SCOPE.

This is carried to the NBS plus L10:L20 and P21 specifications AND the CCN schedules and drawings which record codes and dimensions to fully qualify the works,for all parties.

REGULATORY COMPLIANCE

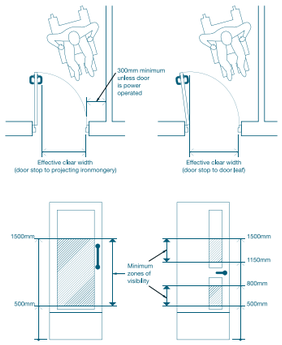
ACCESS to the Approved Document M to the Building Regulations (ADM)
FIRE RESISTANCE to the Approved Document B to the Building Regulations (ADB)
SOUND REDUCTION to the Approved Document E to the Building Regulations (ADE)
SAFETY to the Approved Document N to the Building Regulations (ADN)

ADM: ACCESS TO AND USE OF BUILDINGS

The following, specific matters should be addressed in the project specification to ensure compliance:

Glazing: Uninterrupted visibility through a glazed door. BS8300 sets out and amplifies the requirements of ADM in meeting the challenges of the Disability Discrimination Act (DDA). Diagram 9 thereto sets out the TWO minimum visibility bands to deal with the approach and safe thoroughfare of infants and persons in wheelchairs, as well as pedestrian traffic.

Effective clear width and visibility requirements of doors



Clear Opening Widths: Minimum widths between frame stop and projecting hardware are required for less-abled access and thoroughfare, according to the corridor and approach width of the location.

Minimum effective clear widths of doors

Direction and width of approach	New buildings (mm)	Existing buildings (mm)
Straight-on (without a turn or oblique approach)	800	750
At right angles to an access route at least 1500mm wide	800	750
At right angles to an access route at least 1200mm wide	825	775

For strict compliance the structural openings should account for the critical dimensions shown in the guidance tables.

LRV: Light Reflectance Valve: Contrasts must be achieved about the opening in the following areas in accordance with BS8300 to assist safe passage through the opening for the partially sighted (See doc).

- Door face to hardware: 15 points
- Wall (inc door) to floor: 30 points
- Door edge to face: 30 points (where required)

For assistance in achieving the required contrasts - **see: www.ccn-uk.com/lrv.**

Wheelchair thoroughfare: Specific dimensions need to be allowed in the set out of an opening, as below.

Reduced swing doors: such as CEDor PivZONE will satisfy clause 7.3.5, with minimal encroachment of the adjacent corridor.

Reduced Opening Forces: To facilitate door passage by less-abled users, the regulations require that the door closer will function to the following regime with reduced opening force throughout the opening cycle expressed in Newtons.

- Opening arc 0-30° < 30 N - reducing to < 22.5 N to 60°

NOTE: For fire doors there is a parallel challenge in satisfying BS:EN 1154. A minimum closing force of 18N must also be achieved.

Full particulars of CCN's opening/closing forces may be found on the CCN's website.

ADB: FIRE SAFETY

The following specific matters should be addressed in the project specifics in order to satisfy the Statutory Instrument

ADB sets out the requirement for certification:

- Tested to BS476 Parts 22/31.1 and/or EN1634: 1-3
- Classified in accordance with BS EN 13501– 2

Table B1 sets out the performance requirements for doors in terms of fire integrity and smoke control

Table A4 sets out the limitations of uninsulated glazed elements on escape routes:

- Door leaf:
  - Maximum 50% of door area:
- Glazed screen:
  - Unlimited >1100mm FFL – Escape Routes

ADB sets out the requirements for labelling and CE marking:

- BS 5499: Fire doors should be fitted with fire door signage
- BS8214 requires fire doors to be labelled by the manufacturer with the fire classification and appropriate certification under which the doors were supplied

CEDor fit their labels vertically above the top hinge.

REGULATORY COMPLIANCE

ADE: RESISTANCE TO PASSAGE OF SOUND

The following specific matters should be addressed in the project specifics in order to satisfy the Statutory Instrument:

- E1 – Protection against sound from other parts of the building and adjoining buildings
- E4 – Acoustic conditions in schools
  - See also BB93 for Schools
  - See also HTM56 for Hospitals

ADK: PROTECTION FROM FALLING, COLLISION AND IMPACT.

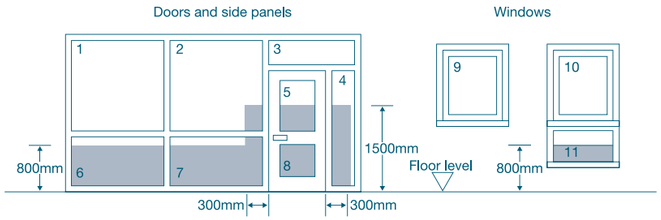
The following specific matters should be addressed in the project specifics in order to satisfy the Statutory Instrument.

The main provisions of this document relate to visions panels on circulation routes.

ADN: GLAZING – SAFETY IN RELATION TO IMPACT, OPENING AND CLEANING

The following specific matters should be addressed in the project specifics in order to satisfy the Statutory Instrument.

Critical locations in internal and external walls

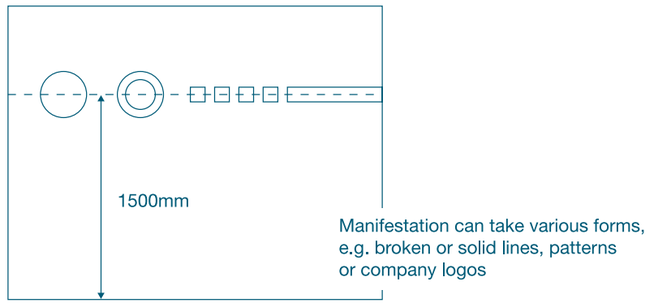


Shaded areas show critical locations to which Requirement N1 applies
(i.e. glazing in areas numbered 2, 4, 5, 6, 7, 8, 11)

This document deals with the critical zones for safety glazing.

Manifestation is also requisitioned for larger spans of glass.

Height of 'manifestation' of large areas of transparent glazing



OTHER CONSIDERATIONS

As well as satisfying the regulations, performance doorsets must also accommodate the following standards in performance and prescription:

Dynamic testing: DD171 is the minimum requirement, classifying doors from light to severe duty.

CEDor doorsets are Severe Duty: Ensign and Stratum ranges.

BS8214 is the code of practice for non-metallic fire door assemblies. This deals adequately with a number of matters of general design coordination, along with BS 8300:

- Essential hardware
- Frame to wall coordination
- Glazing
- Door labelling

These standards form the basis for CCN's Package Bible.

ENVIRONMENTAL RESPONSIBILITY

SUSTAINABLE MATERIAL AND SOURCING

The CEDor and CEScreen ranges will have non-timber finishes such as laminate, metal, PVC or paint. However, a significant proportion of the material in the door, frame and screen constructions is timber based. The CEDor cores are solid core, each geared to deliver the specific performance of the application. These products along with the high-impact facings are bi-products (produced as waste from the prime process). This reduces use of natural organic materials within the doorset and screen constructions for environmental efficiency.

Timber is essentially recyclable. It is a living, renewable material that is generally non-toxic with many environmental advantages for the building industry. Trees absorb carbon dioxide and release oxygen into the atmosphere. Converting timber into building products takes far less energy (generating less CO2) than many other materials such as metal.

Poor practice in many countries, led to a need for an uninterrupted Chain of Custody in supply from the forrest to the incorporated element.

CCN have a full Chain of Custody SGS:COC:009170.

CCN have a highly developed Environmental Policy linked to the principles of BREAAM under the following headings:

1 Responsibility
2 Legality & Sustainability
3 Endangered Species
4 Traceability and Supplier Monitoring
5 Timber Certification
6 Avoid Boycotts
7 Avoid Misleading Claims
8 Preparing Staff
9 Process Management
10 Continuous Improvement

FSC

REGULATORY COMPLIANCE

PRODUCT SELECTION

CODES, CONFIGURATIONS AND FEATURES

CCN have developed a TDC (Total Doorset Coordination) schedule template for use by its customer base.

Contact CCN for your copy for the project in hand.
See www.ccn-uk.com

DOOR CONSTRUCTION

CEDor Ensign and Stratum ranges establish an entirely different quality threshold and build standard, in door construction, with tangible advantages in performance and longevity.

CEDor Doors: The door construction specified should be solid core construction fully stiled and railed with double head rails and hardwood lips. **This is the MINIMUM standard from the CEDor range.**

"Kit core" and "Blank-converted" doors, from a wide range of down-stream suppliers, present a real dilemma to the specifier as they offer the widest and most difficult variances to appraise. **It is best to avoid them.**

Door cores to provide the designated performance for duty, fire resistance, sound reduction, radiation resistance and high humidly applications.

- CCNs CEDor door constructions are fully tested with a range of dedicated solid cores with HIGH and EXTREME levels of performance **- see Product Catalogue**
- The CEDor cores are micro-coded within the CEDor RIBA:NBSplus specification tool - **see: www.ccn-uk.com**

NBS: Specification selection should include the following minimum wording:
"Solid core doors with full skeletal construction, stiled and railed with core to certified performance"

DOORSET CONFIGURATIONS

(with and without overpanels) Features: CEDor Codes shown below:

SINGLE Door leaf options (S)

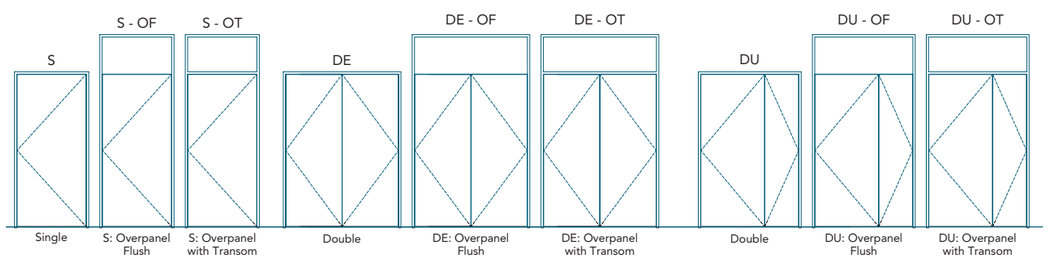
Single: standard height:
NBS: S
Single: Overpanel FLUSH:
NBS: S:OF
Single: Overpanel TRANSOM
NBS: S:OT

DOUBLE Door leaf options (DE)

Double Equal: standard height:
NBS: DE
Double Equal: Overpanel FLUSH:
NBS: DE:OF
Double Equal: Overpanel TRANSOM:
NBS: DE:OT

DOUBLE Door leaf options (DU)

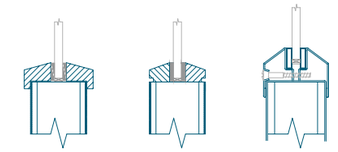
Double Unequal: standard height:
NBS: DU
Double Unequal: Overpanel FLUSH:
NBS: DU:OF
Double Unequal: Overpanel TRANSOM:
NBS: DU:OT



PRODUCT SELECTION

CODES, CONFIGURATIONS AND FEATURE Glazing Beads are both functional and aesthetic items.

CEDor offer a variety of beads for each application – CEDor CODES shown below. NOTE: Flush beads with laminate faced doors will require radiused inner corners to avoid laminate cracking.



NBS:B **NBS:F or** **NBS:S**

Beads will ALWAYS be hardwood – they will normally be matched to the door lippings of doors, except in Paint Grade doors.

Combination performance fire, acoustic, radiation beads to be confirmed with supplier.

Glass for Glazed Doorsets and Screens

CCN glazed systems are safety classified to BS6262/6206, as standard, in accordance with ADN. It is vital to ensure the correct glass is measured according to performance with the following glass and glazing systems deployed. All from CE marked and certified products.

NOTE: The expanded codes for ALL performance combinations can be found on the CCN website. **See: www.ccn-uk.co.uk**

DutyZONE: Clear safety glass.

- CEDor **NBS**: Saf:SZ_31 dB

FireZONE: Clear fire resisting safety glass to EN 1634.

- FD30: CEDor **NBS**: FZ_30/0
- FD60: CEDor **NBS**: FZ_60/30
- FD90: CEDor **NBS**: FZ_90/0
- FD120: CEDor **NBS**: FZ_120/0

NOTE Wired glasses are NOT used by CCN.

CEDor Vision Panel Standards The full range of options is shown on Page 15.
CCN offer the following as ADM compliant popular STANDARDS:

- **NBS**: SNS - Single Narrow Strip:
  200 x 1450mm
- **NBS**: DNP - Double Narrow Panel:
  200 x 500/750mm

SoundZONE: Clear sound reducing glass to EN 140.

- RW 31dB CEDor **NBS**: SZ_31dB
- RW 35dB CEDor **NBS**: SZ_35dB
- RW 38dB CEDor **NBS**: SZ_38dB
- RW 40dB CEDor **NBS**: SZ_40dB
- RW 42dB CEDor **NBS**: SZ_42dB
- RW 45dB CEDor **NBS**: SZ_45dB

Contact CCN:IIS for higher acoustic specifications.

PRODUCT SELECTION

RadZONE: Radiation resistant glass.

- XRay Code 1 CEDor **ՈՆՏ**: RZ_01
- XRay Code 2 CEDor **ՈՆՏ**: RZ_02
- XRay Code 3 CEDor **ՈՆՏ**: RZ_03

PrivacyZONE:
Most of the above glazing performance zones can be supplied in a wide range of privacy options.

Integral blind units are available within high performance double glazed units:

- Safety **ՈՆՏ**: SLBS
- Fire **ՈՆՏ**: SLBF
- Sound **ՈՆՏ**: SLBA

Combinations units: Safety/Fire/SoundZONE.

CEDor modes of operation:

- Wand **ՈՆՏ**: SLO:Wand
- Turn **ՈՆՏ**: SLO:Turn
- Remote **ՈՆՏ**: SLO:Remote

CCN Vista - Banded privacy panels are also available with dual or single side operation:

- Safety **ՈՆՏ**: VistaSAF*
- Fire **ՈՆՏ**: VistaFIRE (FD30 & FD60)*
- Sound **ՈՆՏ**: VistaSOUND (RW31 & 35dB)*

NOTE: *Suffix with Single or Dual operation.

CCN's ReactaZONE, smart glass technology Reactive glass solutions linked to functional or alarm circuitry for flexibility and privacy. These new generation glasses feature a liquid crystal film between the laminated panes. When the power is turned on, the opaque smart glass-panes turn fully transparent. An amazing effect can be achieved at the touch of a button, from total privacy to natural light in the blink of an eye.

Combination performance can be achieved in the smart glazed elements, from CCN's huge Field of Application.

CEScreen ReactaZONE is the perfect complement to any building where safety and flexible privacy is required.

- Safety **ՈՆՏ**: ActiSAF
- Fire **ՈՆՏ**: ActiFIRE (FD30 & FD60)
- Sound **ՈՆՏ**: ActiSOUND (RW31 & 42dB)
- Radiation **ՈՆՏ**: ActiRAD

Contact CCN:IIS for combination units.

CEDor DOORSET FEATURES

IN-DOOR VENTILATION:

As well as deploying the undercut, for airflow, a range of grilles are available from CEDor. These may be positioned in the door at upper or lower level. The dimensions of the grille are dictated by the volume flow data and the residual door perimeter required for structural stability and general integrity of the door itself.

Grill options ՈՆՏ: Suffix NFR/FD30/FD60.

- **ՈՆՏ**: TL (Top Louvred)
- **ՈՆՏ**: BL (Bottom Louvred)
- **ՈՆՏ**: TBL (Top & Bottom Louvred)

Standard sizes: for NFR: FD30 & FD60 applications in incremental grille dimensions to deliver the required airflow.

- 300 x 400mm
- 450 x 450mm

Other sizes available in 50mm increments to max 900 x900mm.
See: www.ccn-uk.com

Door Lippings: see CCN website for illustrations
Lippings are an essential component of door construction. The concealed lip is beyond the capabilities of most manufacturers, without tell tale telegraphing. This is a standard for CCN.
See: www.ccn-uk.com

Concealed Lips:
CCN's advanced processing has countered this challenge in the CEDor :CL (Concealed LIP) option. This provides the most attractive door elevation. The face-finish is carried fully across the door, without telegraphing. The CEDor: CL has arrissed edges on laminate faced doors to protect the edge.

- **ՈՆՏ**: C2L or C4L

Exposed Lips:
Available on all 4 or 2 long edges CEDor offer a full range of Exposed Lippings available SQUARE or RadLINE.

- **ՈՆՏ**: E2L or E4L

Semi Exposed Lip:
CEDor RadLIP lipping system, is a modern, radiused lip, offering a very attractive and robust edge to the door. This overlaps the lip seam with the door style.

- **ՈՆՏ**: SE2 or SE4

CEDor DuraLIP:
DuraLIP is a hard-waring ABS lip, available to Primed and Factory-Painted doors.

- **ՈՆՏ**: DL2 or DL4

Painted doors also available with Melamine lips.

- **ՈՆՏ**: ML2 or ML4

PU Lipping:
CEDor CleanZONE and FormZONE, offer a patented pu edge.

- **ՈՆՏ**: Pu2 or Pu4

All CEDor Lippings are hardwood and can be used for LRV contrasts. (Deep white hardwood DuraLIP - rails to paint grade door).

See: www.ccn-uk.com/lippings

PRODUCT SELECTION

CCN Door Frames:
Mitred and jointed frames are far more accurate than half lap jointed frames and better resist twist during distribution and installation. CEDor Frames are mitred as standard in the CEDor engineered joint.

CCN: Engineered Timber - For use in wider Humidity bands.

Engineered Timber: is a generic term used to describe a wide range of wood-based products that have been engineered to provide enhanced performance characteristics, stability and durability.

- To overcome the dimensional limitations and depleted availability of quality unsorted redwoods
- To improve appearance, stability, finish and structural properties of the sections and **ELIMINATE** knots and shakes
- To transform the natural orthotropic product into one with more homogenous properties and minimise waste. Engineered timber is made 100% from waste

CCN Finishes to Engineered Timber:
Engineered timber supports a superior final decorative finish owing to the consistency and lack of imperfections in the timber.

Primed and Factory Painted Finishes:

- **ՈՆՏ**: EP (Engineered Primed)
- **ՈՆՏ**: EP:RAL (Engineered Facory Painted)

Note: For applications NFR/FD30/FD60.

Natural finishes: CCN have developed their NatraLAQ applied finishes to the engineered timber substrate. This offers a very ECONOMICAL lacquered clear or stained finish to most hardwood species, from Beech to Oak, with the inherent consistency and stability of engineered timber.

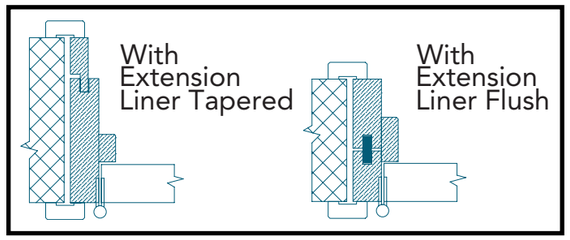
- **ՈՆՏ**: E:NL/Species (eg. Beech)

VenFAC Real Veneer Wrapped Frames:
Engineered profiles are available with VenFAC, real veneer wrapped to match or contrast with the door. This level of quality requires advanced processing capabilities and takes doorsets into the realms of furniture. The veneer is formed onto the engineered timber as a durable and decorative skin, to fully match the door.

- **ՈՆՏ**: VenFAC/Species

ՈՆՏ: VenFAC

ՈՆՏ: HFF



ՈՆՏ: TEL **ՈՆՏ: FEL**

CEDor DOOR FRAMES

Traditional Hardwood and Redwood Timber Frames: For use in narrower Humidity bands.

Natural Hardwood Finishes: Lacquered and polished to bring out the full visual properties of the timber species selected. A full range of hardwood factory finished frames is available.

- **ՈՆՏ**: HFF/Species (eg. American White Oak)

Primed and Factory Painted Frames:

Hardwood Primed Frames: may be used for FD60 applications.

- **ՈՆՏ**: HP (Hardwood Primed)

Hardwood Factory Finished Frames: are used in all applications.

- **ՈՆՏ**: HP:RAL/Colour (eg. RAL9001-White)

CCN: Frame Profiles: All timber types are available in the full range of CEDor frame SECtions for butt or wraparound conditions. Variable depth profiles and extension liners deal with a wide range of drywall and masonry openings.

Wall thicknesses: CCN's SECprofiles are used for walls 90 -140 mm. Tapered or flush extension liners will be deployed for wider wall conditions.

Architraves are 19 x 44 mm as standard.Other sizes readily available and will ALWAYS have a planing groove to provide extra tolerance. Architraves will match the frame unless otherwise stated. MDF archs to primed frames.

RadLINE Frames: All SEC types available with 2mm RadLINE radius.

- **ՈՆՏ**: RadLINE/SEC choice (eg. RadLINE/SoloSEC)

CEDor DOOR LEAVES

CEDor offer ALL finishes in the highest quality facings and applied finishes.

Veneered Doors: The specifier has complete freedom of choice with CEDor, provided the veneer is commercially available from none CITES species.

Veneer Finishes: CEDor veneers are sealed one coat and fully lacquered for longevity in daily use and to resist UV light in DuraLAQ finish.

NB Available with CEDor antimicrobial finish for sterile environments.

Veneer CUTS: The way a log from the wild is processed/cut, depicts the pattern of the veneer and the pattern arising when the veneer fitches are set on the door face.

The three most popular cuts are shown below.

- **ՈՆՏ**: V/Species/CUT

Crown CUT (CC) The log is sliced length-wise to produce a flower-like appearance.
CEDor STANDARD.

Quarter CUT (QC) The log is cut into quarters and then sliced and then sliced along the length of each, to produce a striped appearance.
CEDor NON-STANDARD.

Rotary CUT (RC) The log is peeled into a continuous veneer. This cannot be matched for total elevational symmetry but provides a wild appearance.
CEDor NON-STANDARD.

The CCN Veneer Selector will assist with the selection process.

SELECTING A FINISH

Veneer Patterns: Selecting the required pattern of veneer for the door/over-panel facing. The laying of flitches on the door/over panel creates the desired pattern. Matched veneers should be specified in any event (except for Rotary-Cut). The following matches can be reflected in the specification.

Book Matched (BM): This is the most popular match. Successive flitches are laid in width to create a mirror image, centred as a focal image on the door. It is also the most effective means of coordination with other works, such as work tops (unless common sourcing of veneer flitches is stipulated for use throughout the project). CEDor STANDARD.

Slip Matched (SM):
Flitches are placed uniformly across the door face, creating a planked effect.
CEDor NON STANDARD.

Quartered (QM):
Flitches are laid in 'mirror image' in width and height.
CEDor NON STANDARD.

ՈՖՏ: BM

ՈՖՏ: SM

ՈՖՏ: QM

High Impact Faced Doors: CEDor offer a wide choice of colours and patterns in high pressure laminate and PVC facings:

High Pressure Laminate (HPL):
Available 0.9mm thickness as standard.

- **Standard ranges:** from Formica door selection.
  - Door Collection 'Colours Range'
  - Door Collection 'Woods Range'
- **Non Standard ranges:** from Formica door selection
  - Door Collection 'Glow Range'
  - Door Collection 'Patterns Range'
  - Door Collection 'Naturelle Range'

Note: Laminates also available from ALL other manufacturers: Egger/Getalit/Abet.

High Impact PVC (PVC):
Available 2mm thickness as standard (smooth or textured finish).

- **Standard range:**
  in 5 regular colours
- **Non Standard ranges:**
  in pastel shades of above

Surface Finish: Available in 2 options.

- PVC Smooth **ՈՖՏ**: SF
- PVC Textured **ՈՖՏ**: TF

ՈՖՏ: PVC/Colour

THE FORMICA DOOR COLLECTION

Hardwood Lippings: A full range is available, see page 22.

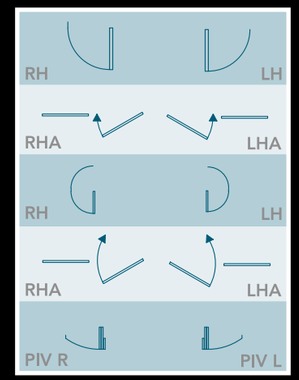
PU Lippings: The CEDor CleanZONE & FormZONE doors features a patented PU lip with either Laminate or PVC facings, which can be colour matched to the surface or coloured to contrast. The PU fuses with the fascia-edge to deter bacteria.
ՈՖՏ: Pu.

Painted Door Finishes: CEDor offers a hardwearing range of finishes.

Primed doors for site painting: This door has the DuraPRIME finish building to 50mu over an HDF facing, affording a superb undercoat, for site decoration
ՈՖՏ: PGP.

Factory Finished doors: to RAL, NCS or BS colour ranges. This door has the DuraCOAT finish building to 150mu with UV protection to the full RAL colour range **ՈՖՏ**: PG:RAL/Colour for the range available.

Doorset Handing: This can be a difficult subject unless it is set out very clearly, without ambiguity and with the facility to deal with the all important hardware and access-control coordination. CCN have an established handing policy which is carried to our TDT Doorset Schedules.



DOORSETS

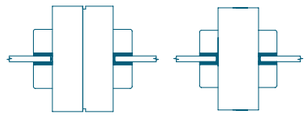
COMBINATION DOORSET AND SCREEN ELEMENTS

Doorsets and Screens should be supplied from a single source, when fitted into a common opening, along with other stand-alone screens in the package, for symmetry, certification and Quality Assurance. CEDor Frame - Sections to combination elements are best prescribed to assure best practice.

Individual and Combination Screen Elements: If two screens are intended to marry into a combination mullion, the union will feature a shadow gap to improve the visual appeal of this member.

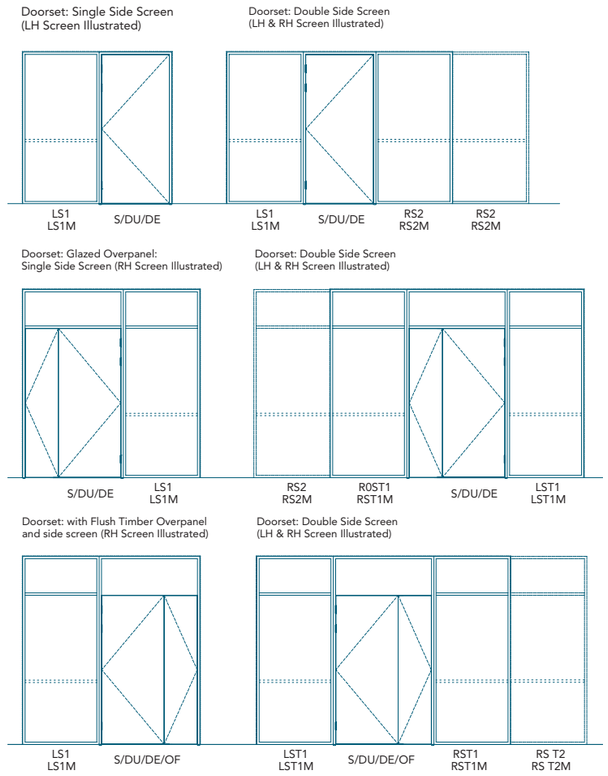
Combination Mullion: CEDor/CEScreen doorset/screen combination units, offer the best solutions to the shared mullion or union where the elements abut.

Common Mullion: If a common mullion is to be used, best practice is to have this made from engineered timber, as the mullion will otherwise twist and warp and this can cause major issues in the strike jamb of the adjoining door leaf.



ΠSS: CombiMUL ΠSS: UniMUL

DOORSET AND SCREEN CODING SYSTEM



KEY TO SCREEN ELEVATIONS

Doorsets (see page 20):
S: DU: DE - Doorset Elevations.

- Suffix OT - Overpanel Transom
- Suffix OF - Overpanel Flush

Screens:
LS or RS - Screen Elevation
(Left or RH side of door set).

- Suffix M - Mid rail to screen
- Suffix T - Transom to screen

CEScreen PERFORMANCE THROUGH NATURAL LIGHT

CCN HAVE DEVELOPED A SCREEN SCHEDULE TEMPLATE FOR USE BY ITS CUSTOMER BASE - CONTACT CCN FOR YOUR COPY FOR THE PROJECT IN HAND.
See: www.ccn-uk.com

A glazed screen is a complete system and relies upon the essential elements of performance to combine as a whole.

Fire Screens: Timber selection is paramount to extended fire performance. The size and aspect ratio of the glass may impose limitations to the elevation. The gasket system and beads are integral components in the certified screen.

This is the domain of FireZONE.

Acoustic Screens: At the higher end of the sound reduction scales, glazed screens will deploy HIGH performance glasses as well as combination glazing for EXTREME performance in secondary glazed configurations. The frame profile, bead and gasket system are essential to performance as well as any special intermediate glazing mediums and absorbants used within the screen design.

This is the domain of SoundZONE.

Privacy Glazing Options: Can be satisfied with surface applied blinds, designer manifestation, or silk screening, as well as integral blind solutions set within the glazing units. ReactaZONE smart glass is also available switching from obscure to clear at the flick of a switch.

This is the domain of PrivacyZONE.

Optimising Natural Light: A glazed screen is deployed to propagate natural light, from and atrium or facade, deep into the building.

This creates harmony as well as functionality, defining circulation and escape routes and working spaces around the building.

This is the domain of LightZONE.

Structural Loadings
These may need accommodating in large span and multi-storey screens or screens between drops in floor load >500mm to BS6180. UDL and internal wind loadings may also add to the design brief.

This is the domain of DutyZONE.

Engineered Joints: CEScreens are formed from engineered mitred, morticed & tenon joints for accuracy, integrity and strength.

SCREEN PROFILES

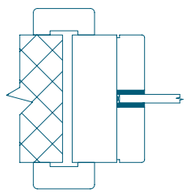
Frame Profiles: CEScreen sections following the same codings as CEDor Doorsets - **see page 24.**
ՈՆՏ: SoloSEC
ՈՆՏ: StopSEC
ՈՆՏ: AdjustaSEC - contact CCN if required with doorsets

Frame Finishes & Materials: CEScreens are available in the same coded options as the CEDor door program - **see page 18.**

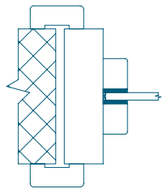
Natural Finishes: available as per the CEDor Doorset Program.
ՈՆՏ: VenFAC/Species
ՈՆՏ: HFF/Species
ՈՆՏ: E:NL

Painted Finishes: available as per the CEDor Doorset Program.
ՈՆՏ: EP (Primed)
ՈՆՏ: EP:RAL (Factory Painted)
ՈՆՏ: HP (Primed)
ՈՆՏ: HP:RAL (Factory Painted)

Beading Systems: Beads will match the frame section and will be sized to the application. Performance, glass edge-cover, structural loading and gasket system deployed. Beads may span the FULL width of the profile with quirks, or be INSET from the edge. Combi-mullions will feature a quirk bead to produce a shadow gap to the adjoining CEDor doorset or CEScreen.

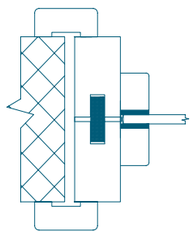


ՈՆՏ: FB (Full)

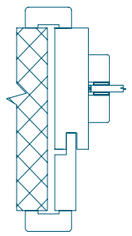


ՈՆՏ: IB (Inset)

Wall Condition: Frame sections will be gauged to the wall up to 140mm. Beyond this size extension liners (Tapered or Flush) are used to the full wall thickness.



ՈՆՏ: ExF



ՈՆՏ: ExS

Frame Thickness: Will vary from 32mm to 44mm for FireZONE Screens and structurally loaded DutyZONE screens.

Beadings can be SQUARE or RadLINE. Beads can be rectangular or tapered.

Glass & Glazing Codes: The correct glass for the screen is critical to performance and must be sized to overall and aspect ratio dimensions. Physical consideration in glass processing, handling (for CDM) and product certification may impose further limitations. However CEScreens offer huge panel sizes for optimal natural light and aesthetic expression.

The permutations are too great to tabulate but the table on page 26 provides guidance for the majority of specifications.

Contact CCN for special requirements or see: www.ccn-uk.com

Privacy Applications: Introduce new challenges to the screen design.

Blind Systems: Available from CCN's ScreenLINE range. The blind is integral to the IGU: Double Glazed Unit where it is protected from dirt, damage and abuse.

Dimensions: Supplied within the following bands: 240 x 300mm minimum to 2000 x 2500mm maximum
NB: May be subject to performance restrictions and CDM considerations.

Modes of Operation: Similar to those deployed with the CEDor door glazing options.

ՈՆՏ: SLO-Wand
ՈՆՏ: SLO-Turn
ՈՆՏ: SLO-Remote

NB: Electrically operated and multi-screen controls are also available. Contact CCN for assistance/samples.

ReactaZONE: Smart Glass is a reactive glass linked to switch or alarm circuiting. The liquid crystal film between interlayers is activated to turn the normally opaque glass into a fully clear CEScreen with high levels of light transmission and uninterrupted vision between spaces. Control can be single or "suited" according to need.

SCREEN CODING

CEScreen GLASS PERFORMANCE TABLE

Performance ZONE			⊓⊔⊓ Code (to max dim shown)	Safety Classification to BS: EN 12600	Combination Rating	CEScreen LINE Integral Blind	Smart Glass	Notes
CEScreen LightZONE		**LightZONE: Safety: NFR**	⊓⊔⊓ DZ_SAF	Class 2	RW 31dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	Thicker safety glass options available from panes 2000 x 3000mm. Contact CCN
		Max Dimension	900 x 2000					
CEScreen FireZONE		**FireZONE FR30:1 (Integrity ONLY)**	⊓⊔⊓ FZ_30/0	Class 1	RW 35dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	The tables opposite and below set out the popular designations for FireZONE and SoundZONE Glazing, CEScreen: FireZONE - Combination performance application can be achieved for SoundZONE, RadZONE and SecureZONE applications **Contact CCN for details**
		Max Dimension	1370 x 2870					
		FireZONE FR30:E (Integrity & Insulation)	⊓⊔⊓ FZ_30/30	Class 1	RW 38dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	1400 x 2000					
		FireZONE FR60:1 (Integrity ONLY)	⊓⊔⊓ FZ_60/0	Class 1	RW 38dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	1400 x 2000					
		FireZONE FR30:E (Integrity ONLY)	⊓⊔⊓ FZ_60/60	Class 1	RW 40dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000					
		FireZONE Extended performance (toFR90)	Contact CCN www.ccn-uk.com/CEScreen/FireZone					
CEScreen SoundZONE		**SoundZONE RW 35dB**	⊓⊔⊓ SZ_35dB	Class 1	NFR Only - see above for FireZONE	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	Incremental sound reduction ratings are achievable to the project specifics. This may involve secondary & inclined glazing and wide profiles as well as acoustic absorbents. **Contact CCN for all requirements beyond those tabled opposite**
		Max Dimension	1500 x 2500					
		SoundZONE RW 38dB	⊓⊔⊓ SZ_38dB	Class 1	NFR Only - see above for FireZONE	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000					
		SoundZONE RW 40dB	⊓⊔⊓ SZ_40dB	Class 1	NFR Only - see above for FireZONE	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000					
		SoundZONE RW 42dB	⊓⊔⊓ SZ_42dB	Class 1	⊓⊔⊓ FZ_30/30: SZ42dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000		1400 x 2000			
		SoundZONE RW 45-46dB	⊓⊔⊓ SZ_45dB	Class 1	⊓⊔⊓ FZ_60/60: SZ45dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000		1220 x 2470			
		SoundZONE RW 52dB	⊓⊔⊓ SZ_52dB	Class 1	FireZONE 60 to RW 52dB **Contact CCN**	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000					
		SoundZONE RW 55dB	⊓⊔⊓ SZ_55dB	Class 1	FireZONE 60 to RW 55dB **Contact CCN**	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000					
		SoundZONE RW 62-65dB	⊓⊔⊓ SZ_62dB	Class 1	⊓⊔⊓ FZ_120/120: SZ65dB	Yes, contact CCN for ⊓⊔⊓ code	Yes, contact CCN	
		Max Dimension	2000 x 3000		1220 x 2470			
		SoundZONE Extended performance to RW 71dB	Contact CCN www.ccn-uk.com/CEScreen/SoundZone					

CEScreen DurANNO: Is a comprehensive system of glass partitioning in dry-jointed (single and double glazed) with double block RadLINE and veneer trimmed sections.

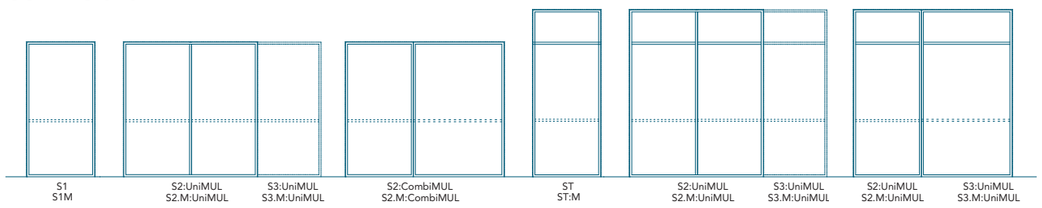
STAND ALONE ELEMENTS

Screen Elevations: Combination CEDor and CEScreen elevation codes are shown on page 22.

Individual Screens: follow a similar coding, building from single"punched-opening" screens to multispan elements with common mullion (UniMUL) or dual mullion (CombiMUL) junctions between panes.

Contact CCN with design criteria for units over 3 bays wide or multi storey.

CODING SYSTEM



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