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NON-COMBUSTIBLE CAVITY TRAY SYSTEMS

APPROVED, TESTED AND CERTIFICATED

Non-Combustible
DOC B COMPLIANT

A1 FIRE RATED

- MAINTENANCE-FREE STAINLESS STEEL
- COMPLIES WITH INTERNATIONAL STANDARDS
- UK CAVITY TRAY MANUFACTURER

01935 474769 ENQUIRIES@CAVITYTRAYS.COM

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NON-COM CAVITY TRAY SYSTEMS

The Non-Com Cavity Tray is a maintenance-free Non-Combustible cavity tray system manufactured by the longest established UK cavity tray manufacturer.

Manufactured using Grade A1 Non-Combustible 304/316 austenitic stainless steel, Non-Com trays protect against damp ingress and provide fire barrier protection.

The Non-Com range of cavity trays provides Document B compliant class A1 Non-Combustible cavity protection in buildings.

Trays are supplied in standard lengths with accompanying junctions, angles and steps, all of which interconnect to form continuous run protection. The Non-Com harmonizing component range enables adjustable interconnecting. Accordingly, positioning with adjacent elements can always be optimised. Variances and wastage need not arise.

Cavity Trays are available for changes of level, window and door openings, cavity barrier protection, horizontal intersections, stepped, staggered and angled masonry turns.

Non-Com Cavity Trays are clearly identified, scheduled and delivered to site with accompanying layout and guidance drawings, for immediate use.

For expert advice on Cavity Tray systems, speak to our team today on 01935 474769 email enquiries@cavitytrays.co.uk or visit cavitytrays.com

Advantageous linking and run/length adjustment

Non-Com cavity trays have integral bonding gaskets that passively unite and bond/seal. Long runs are formed by overlapping lengths. The installer may increase or decrease laps within the defined lapping area between trays, as the joining is not restricted or governed by masonry perpendicular joints. Accordingly, the installer can optimise the finishing position of every run, so every run terminates exactly where required.

The lap upper surface receives a cover strip that ensures the union is protected against contaminants whilst awaiting ultimate masonry laying/loading compression.

Contamination (mortar fines) interference – Capillary circumvention

The integral bonding gaskets provide a compressed sealed relationship as opposed to a hard metal-to-metal relationship.

Dimensioned to suit Build Detail

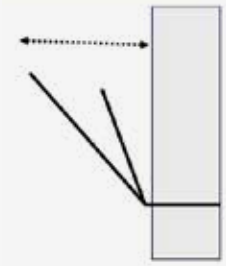
Tray base, cavity upstand and cavity width dimensions are variable. Non-Com cavity trays are manufactured to harmonize with the project measurements/requirements. Trays are self-supporting and do not require building into the inner skin. In the event termination into the inner skin is sought, adaptations are offered to provide such status.

Self-Supporting

Non-Com cavity trays are self-supporting and are not reliant on any additional cavity medium in the form of brackets or chamfered cavity insulation to provide, maintain or aid shape support. Self-supporting trays rise, cross and terminate within the cavity. (See inner skin link).

Slip-Plane Avoidance

The base of each Non-Com cavity tray has integral updents.. These infill with mortar when the tray is bedded down, establishing a mortar locked status. The tray base remains continuous – it is not perforated.



Classified A1 Fire Rated Compliance

Non-Com cavity trays are manufactured from class A1 Non-Combustible stainless steel. Grade 304 is universally accepted for general applications, and complies with the relevant BS codes and NHBC / LABC directives. Grade 316 is appropriate for use in coastal locations.

Cavity Suitability

Non-Com trays are available to suit cavities ranging from 50mm up to and including 150mm.

Stop Ends

Extended length preformed stopends permit the installer to adjust positioning and accurately secure stopends exactly where required. (See previously mentioned run/length adjustment) Stopend height rises the equivalent of one brick course, acknowledging NHBC and LABC dimension compliancy requirements.

Components – Angles

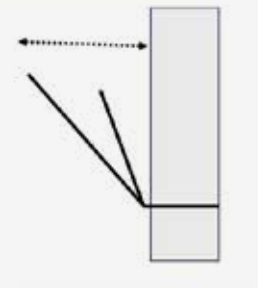
Preformed internal and external 90°corners enable the installer to link speedily without perpendicular joint governance or restriction. Damp protection and fire protection status is uninterrupted / maintained. Non-standard / bespoke angles are supplied where required.

Changes of level – Intersections

When installed at an external wall horizontal intersection, an external flashing can be correctly and uniformly integrated in accordance with NHBC / LABC / Lead Sheet Association guidelines. Non-Com cavity trays have no downward orientated tray, weep or moulding projections into the bedding course. Accordingly, where flashing integration is required, it can satisfy best practice disciplines.

Thermal separation / Break

Non-Com trays are self-supporting. Trays are built into the outer skin only. No thermal bridging by building into the inner skin is introduced.



Inner skin link

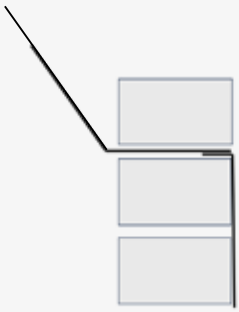
Should region-specific building regulations require tray connection into the inner skin, two options are available: 1. Preformed shape extends through inner leaf or 2. Standard trays are used accompanied with an upturned L section, that cloaks into the back upstand. This form of connection can also accommodate differential thermal expansion (CTE) movement between skins.

Mason Modules – differing types and variances

Standard Non-Com trays accept standard brick dimensions and also non-standard masonry dimensions. Non-Com linking is advantageously independent of masonry bonding. Accordingly, the requirement for bespoke trays is minimised as a wider range of masonry styles / modules can be accommodated using standard trays. (Examples: Wienerberger's Roman and Megaline bricks).

Horizontal Intersections - no interruption below Non-Com base

Where Non-Com trays are required to protect a horizontal / roof intersection, it is usual for a lead flashing to be incorporated in accordance with NHBC, LABC and LDA guide lines / best practice. To do so requires an unobstructed bedding course under the tray. This relationship is readily satisfied. Joining of Non-Com trays does not interrupt /project into the bedding course below tray base level.



Non-Com Caviweep water evacuation

Compatible Non-Com Caviweeps manufactured from A1 fire-rated metal provide protected exit routes for water arrested at tray level. Non-Com weeps have protected outlets and upward radiused sides. These protect against direct displacement wind downdraught pressure that affects taller buildings.

Planned and Preformed

Building Regulations Approved Document B (ADB) – Fire Safety – 2019 banned the use of combustible materials in the external walls of buildings over 18 metres in height. In 2022 this requirement was subsequently amended, banning combustible materials in external walls of buildings over 11 metres in height. The Non-Com system eliminates on-site fabrication and provides the installer with preformed components scheduled and identified, ready for building-in. The Non-Com system is installer-friendly, and permits all protective runs and junctions to be optimally located providing fire-barrier and water arrestment functionality in accordance with regulations.

Knowing What's Required - Peace of Mind

Cavity Trays Ltd operates a compatibility and taking-off service and will be pleased to receive your enquiry. A schedule listing requirements per floor can be provided. Trays are marked for easy identification and accompanied with installation/layout instructions.

A schedule accompanies Non-Com tray site instructions

Within the schedule we identify any non-standard requirements such as shortened angle handing, specific lengths, stepped and/or angled situations, plus bespoke inclusions required.

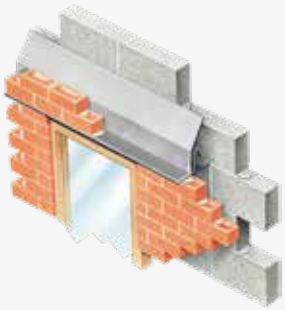
The Non-Com profile supplied will suit the cavity wall dimensions, with the cavity spanning section shaped to rise and integrate with adjacent elements for protection, functionality and best practice.

Trays are marked up for easy identification and picking by the installer.

A confirmation profile sheet showing the tray profile, external skin thickness, cavity width and any relevant details is issued prior to initiating supplies.

For expert advice on Cavity Tray systems, speak to our team today on 01935 474769 email enquiries@cavitytrays.co.uk or visit cavitytrays.com

NonCom Specification and Benefits	Cavity Trays Ltd	
Preformed system A1 rated stainless steel	✓	
Independently tested certification awarded	✓	
Range available for cavities ranging from 75mm up to 150mm	✓	
Rigid, Self-supporting format, not reliant on any cavity medium (insulation) to assist / maintain shape	✓	
Bedding course envelopment – updent mortar locking	✓	
Continuity - Integral gaskets support positive lap bonding - no separate sealant	✓	
Gaskets guard against metal/metal capillary opportunity by mortar/fines contamination	✓	
Easy linking – not dictated by masonry bonding	✓	
Stopends – position adjustable, exact termination with adjacent elements.	✓	
Stopends - All integral and independent stopends comply with NHBC/LABC full course height dimension	✓	
Level tray base -no under-bed projections, unrestricted flashing acceptance at horizontal intersections	✓	
Compatible Non-Combustible Caviweeps + RAL external beak colour choice options	✓	
Caviweep outlet protected, not openly / directly exposed to high level wind pressures	✓	
Drop and spread Caviweep outlet, anti-block	✓	
Experienced in producing metal cavity trays since 1923, and stainless-steel cavity trays since 1980	✓	
Performance warranty	✓	
Longest-established cavity tray company in UK and Europe - Proven track record	✓	



Further Example Locations - NonCom Trays

Cavity Wall Window and Door Openings

Non-Com trays are dimensioned to extend sufficiently either side of an opening to a naturally-occurring perp joint, which can receive the position-adjustable stopend.

The cavity upstand transverses the cavity, terminating on its far side, providing full width protection.

Cavity Wall Meter Boxes / Through-Ducts / Service Bridges

Each NonCom tray provides protection against downward water movement. Where meter boxes are in close proximity,

NonCom trays are continuous rather than separate/individual.

Parapet Walls

Where it is necessary to incorporate fire stops within a cavity wall at parapet level, NonCom trays with outward-sloping cavity upstands and provision to prevent under-tracking ensure permeation of both exposed skins to wind and rain is arrested above fire barrier level.

Changes of Level Intersections

A horizontal roof intersecting an external cavity wall requires a NonCom tray above the intersection, the masonry being external above roof level, but internal below it.

Because NonCom trays do not have projections below tray base level affecting the bedding course, flashings can be integrated correctly observing LSA guidelines / best practice.

Masonry Support Systems

Where a masonry support system is incorporated with an accompanying fire barrier, protection is required to prevent the barrier acting as a bridge to the inner leaf.

Masonry Support NonCom trays act as attachment umbrellas, and permit swift and unhindered integration.

All NonCom trays are identified and referenced within schedules.

NON-COM PRODUCT RANGE

For expert advice on Cavity Tray systems, speak to our team today on **01935 474769** email **enquiries@cavitytrays.co.uk** or visit **cavitytrays.com**

STANDARD LENGTH

Non-Com Standard Length followed by actual cavity width.

Reference:

NC Std Length/75
NC Std Length/100
NC Std Length/125
NC Std Length/140
NC Std Length/150
NC Std Length/other

Dimensions: 2400 x 150mm

STANDARD EXTERNAL ANGLE

Non-Com Standard External Angle followed by actual cavity width.

Reference:

NC Std Ex Angle/75
NC Std Ex Angle/100
NC Std Ex Angle/125
NC Std Ex Angle/140
NC Std Ex Angle/150
NC Std Ex Angle/other

Dimensions: 300 x 300 x 150mm

INTERNAL ANGLE

Non-Com Standard Internal Angle followed by actual cavity width.

Reference:

NC Std Internal Angle/75
NC Std Internal Angle/100
NC Std Internal Angle/125
NC Std Internal Angle/140
NC Std Internal Angle/150
NC Std Internal Angle/other

Dimensions: 300 x 300 x 150mm

ANTI-CONTAMINATION COVER STRIP ROLLS

Description:

Protective strip in rolls to guard against fines/ contamination against

Dimensions: 10m roll

STANDARD STOPEND LEFT HAND

Non-Com Standard Stopend followed by Handing - Left hand

Reference:

NC Std Stopend/75 LH
NC Std Stopend/100 LH
NC Std Stopend/125 LH
NC Std Stopend/140 LH
NC Std Stopend/150 LH
NC Std Stopend/other LH

Dimensions: 225 x 150mm

STANDARD STOPEND RIGHT HAND

Non-Com Standard Stopend followed by Handing - Right hand

Reference:

NC Std Stopend/75 RH
NC Std Stopend/100 RH
NC Std Stopend/125 RH
NC Std Stopend/140 RH
NC Std Stopend/150 RH
NC Std Stopend/other RH

Dimensions: 225 x 150mm

STANDARD UPSTEP*

Non-Com Standard Change of Level Upstep followed by cavity width

Reference:

NC Std Upstep /75/S
NC Std Upstep /100/S
NC Std Upstep /125/S
NC Std Upstep /140/S
NC Std Upstep /150/S
NC Std Upstep /S other

Dimensions: 300 x 200 x 300mm

STANDARD DOWNSTEP*

Non-Com Standard Change of Level Downstep followed by cavity width

Reference:

NC Std Downstep /75/
NC Std Downstep /100
NC Std Downstep /125
NC Std Downstep /140
NC Std Downstep /150
NC Std Downstep /S other

Dimensions: 300 x 200 x 300mm

* S number denotes number of course steps 1,2,3 or 4, courses

Building-In

Correct tray installation ensures effective drainage, prevents water ingress, and maintains compliance with building regulations.

Before laying mortar, it is good practice to identify the trays required, and set them out on the masonry, checking you have everything to hand for the run. Check your schedule and layout guide.

Non-Com trays should always be bedded following NHBC, LABC and Building Regulation best practice of bedding on mortar. Complete mortar bedding of trays is essential, as is the subsequent complete mortar bedding of masonry into trays.

1. Trays are built-in commencing left, and laying to the right.
2. Start at a corner, observing the above practice of laying from left to right.
3. All masonry that is subsequently built onto Non-Com trays should be bedded on mortar, do not dry bed.
4. All trays should in laid so the front edge does not protrude forward of the mortar bed and the cavity upstand spans the cavity width.
5. Adjacent lengths should always lap a minimum of 250mm, so sealing gaskets always fall within the lapped areas.
6. No lapped joints should lap more than 400mm
7. Ensuring all surfaces are clean and dry, peel back the protective covers to the lap gasket seals on the upper side of the laid length.
8. Holding the next length to be laid above the bedded length, lap minimum of 250mm and align.
9. Lower and press the corner bend of the linking length into the corresponding back corner bend of the bedded length.
10. Apply pressure to fully engage the lap gasket seals to secure.
11. Check total infill bonding has been achieved, ensure joint is aligned and sound.

12. Apply the cover strip to keep the joint clean and protect from mortar fines. Subsequent laying of masonry may continue once the cover strip is correctly integrated.

13. Always check and clean the trays free of mortar and debris as work proceeds
Non-Com long lengths substantially reduce the number of joints within installation runs.

14. Trays are not restrained by masonry module dimensions as a perpendicular joint is not required to initiate tray linking.

15. Internal and external angles are introduced and linked in the same manner.

16. Stopends are introduced and linked in the same manner.

17. Changes of level trays are introduced and linked in the same manner

18. The installer is able to adjust the extent of lap within the stated parameters, to achieve optimum positioning.

Remember, occasionally a shorter tray length might be required at the end of a tray run, or to terminate with a stopend, link or angle. The schedule will list all components which are also physically marked for easy identification.

Exact termination with adjacent elements is possible where the lap between components can be increased beyond 250mm up to 400mm, optimising satisfactory placement.

It is recommended weeps are incorporated within perpendicular joints at centres not exceeding five bricks, or closer if required. Ensure the wind-protected beak is clear of mortar droppings and located forward of the tray front.

Always check Non-Com trays are installed correctly and all joints comply / fall within the parameters stated. Trays must be free of mortar within the cavity.

If in doubt, contact our experts on 01936 474769 or email enquiries@cavitytrays.co.uk

Non-Com Cavity Tray features

Non-Com Cavity Trays	Non-Com Cavity Trays manufactured from stainless steel have an A1 fire classification defined by Commission Decision 96/603/EC
Material	Austenitic stainless steel grade 304 and 316, to BS EN 10088-2.
Material thickness	0.7mm thickness
To fit cavity width	Minimum 50mm, maximum 150mm
Height	Compliant to provide 150mm rise within cavity, with higher area providing clear cavity status as defined in NHBC / LABC / Regulation requirements
Length (effective)	2400mm

Non-Com Cavity Tray components

Lengths	Suitable for majority of masonry modules and not restricted by brick or half brick dimensions nor the availability/ frequency of same. Integral mortar updents
Joining of lengths and adjacent components	Not restricted. Adjustable within stated parameters permitting runs to be terminated/ integrated accurately. Integral mortar updents
Stopends / Reveal closers + Corners / Angles	Positioning can be optimised as not masonry module restricted. Adjustable placement within stated parameters. Integral mortar updents
Changes of Level + Step-Ups & Step-Downs	Preformed harmonizing components, location adjustable within parameters. Bespoke provision. Integral mortar updents

Metal to Metal contamination	Integral sealing gaskets at joins aid watertight continuity of components, in preference to two hard integrating surfaces only.
Non-Com Weep	A1 performance rated Non-Combustible discreet weep, with protective beak outlet with upward radiused sides allowing spread and discharge of water/ fines from cavity. Non-Com weep discharge is at tray base level, not below it
Changes of level Horizontal intersections	Non-Com trays installed at changes of level are able to incorporate a flashing in accordance with best practice/NHBC/LABC directives, as there are no protrusions or interruptions below base level or joining below base level
Country of material origin	United Kingdom
Country of product manufacture	United Kingdom
Manufacturer	Cavity Trays Ltd, (longest established cavity tray company in the UK)
Material	**Stainless steel x two specification options:** Grade 304 stainless steel as standard Grade 316 stainless steel available on request
Embodied carbon A1-A3 (production stage) as defined in BS EN 15804	5.27 kg CO_2 eq/kg Self declared
Recyclability	Stainless steel content of Non-Com trays exceeds 95% and stainless steel is a recyclable material
Determining requirements	Cavity Trays Ltd operates a take-off and scheduling service Requirements scheduled on a per floor / per elevation basis. Components marked / numbered for easy identification. Deliveries accompanied with relevant schedule / pick list
Specification	Non-Com preformed cavity tray system by Cavity Trays Ltd, Yeovil, Somerset, BA22 8HU. NonCom Document B compliant A1 rated trays to all intersections, changes of level, cavity fire barriers and cavity wall openings. Placement and incorporation to be in accordance with manufacturer's instructions. See manufacturers elevation schedules for tray identifications, dimensions and guidance.

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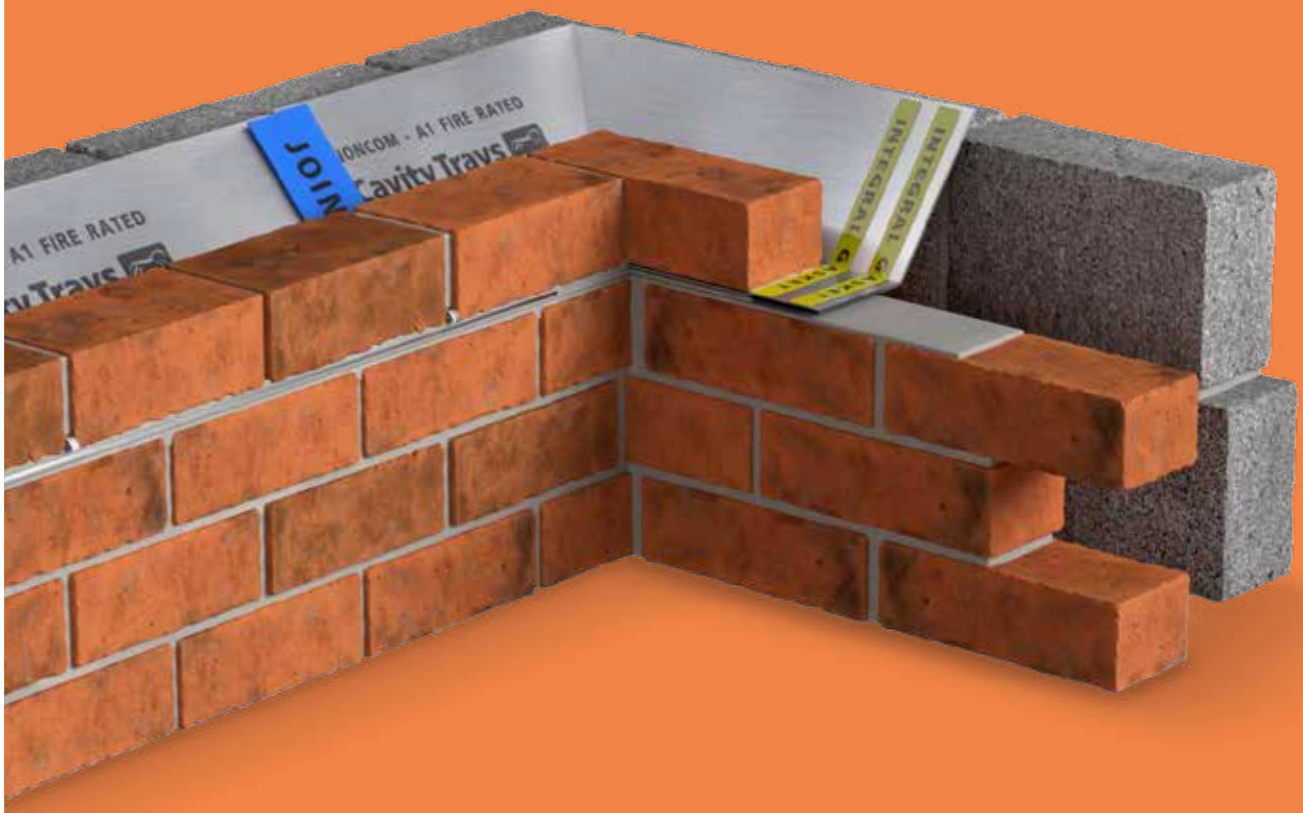

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CERTIFICATE
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