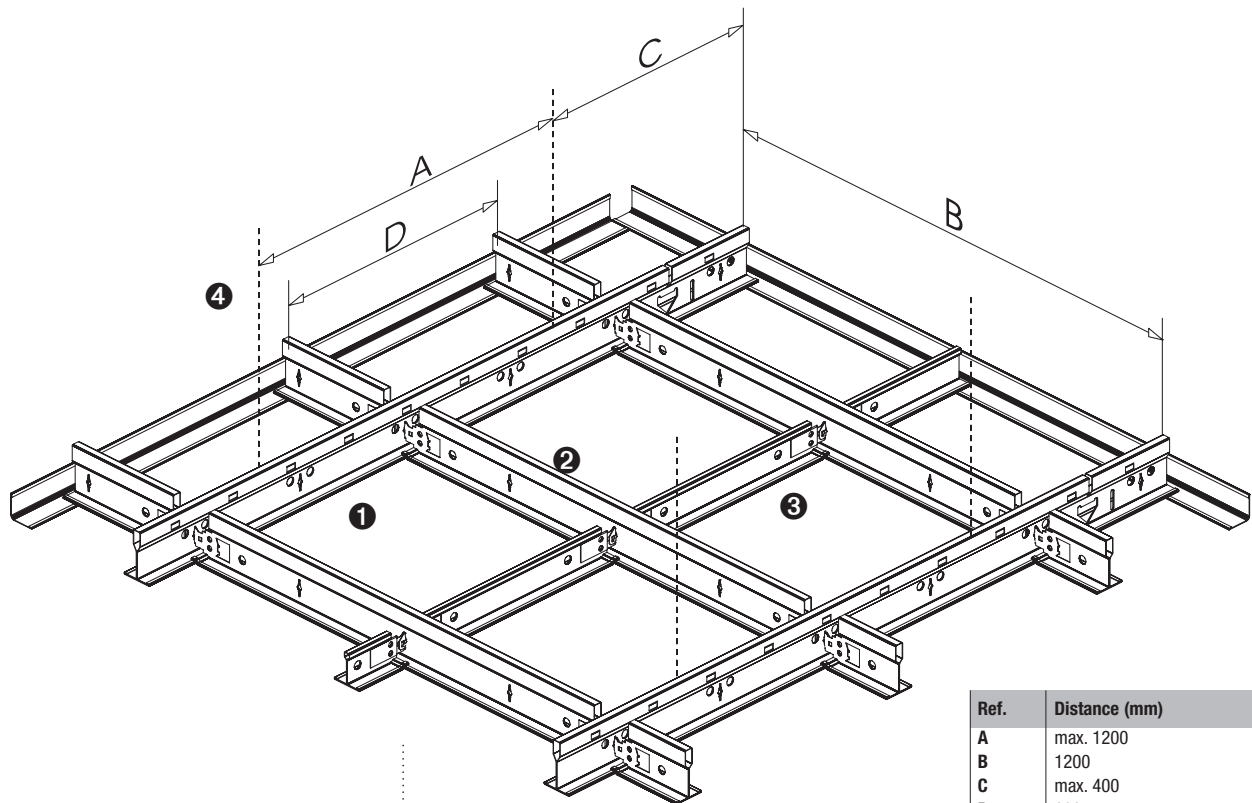


# DONN® DX24



Ref.	Distance (mm)
A	max. 1200
B	1200
C	max. 400
D	600

## System characteristics:

- Exposed 24mm system
- The most widely used grid system in the world
- Fast and simple to install
- Maximum economy and design simplicity
- Cross-tees with override-ends resist twisting and give professionally finished look with no exposed steel edges
- Patented QUICK-RELEASE™ clip design: easy to remove without tools
- Compatible with Square edge and SLB edge ceiling tiles
- Designed for fire rated ceilings - see page 40
- Colour options available
- Additional features available in the following systems:
  - DONN DXB24 Lay-in/Butt-cut system
  - DONN DX KB Corrosion-protected
  - DONN DX Seismic

## Material needed for DX24 grid construction (per m<sup>2</sup> ceiling)

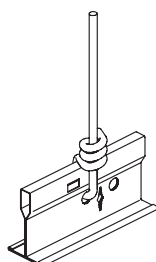
Nr	Description	Item reference	Module	
			600 x 600	600 x 1200
①	Main Runner	DX24XH370	0.83 lin m	0.83 lin m
②	1200 Cross Tee	DX24TH120	1.67 lin m	1.67 lin m
③	600 Cross Tee	DX24TS60	0.83 lin m	
④	Hanger	DSW2	0.70 pieces	0.70 pieces

BS EN 13964:2004

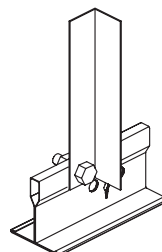
Reaction to fire: A2-s1,d0

Corrosion class: Class B

For further information on EN 13964, see page 39.

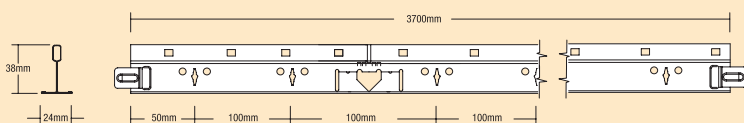


DX24 / Suspension wire - DSW2

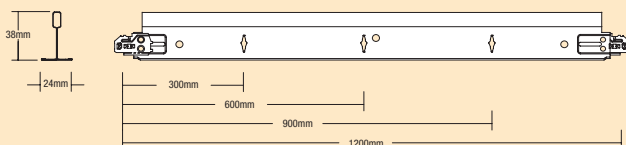


DX24 / Angle section - DGA5

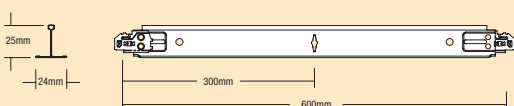
### Main Runner DX24XH370



### Long Cross Tee DX24TH120



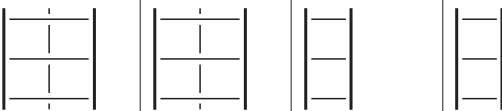
### Short Cross Tee DX24TS60



## Maximum allowed weight of tiles per m<sup>2</sup> of ceiling

▼ Hanger distance (mm)	Module			
	Main runner at 1200mm		Main runner at 600mm	
	600 x 600	600 x 1200	600 x 600	600 x 1200
800	23.7	23.9	-	-
1000	23.7	23.9	55.9	56.3
1200	12.8	12.9	26.3	26.6
1500	4.6	4.8	10.0	10.3

Note: The load per m<sup>2</sup> must be distributed uniformly (no point loads) over the ceiling area. After loading, the deflection of any grid component will remain within the maximum deflection per span as stated in BS: 8290: 1991, provided the grid layout is as presented in the sketch.



## Specification DONN DX24

Grid shall be DONN DX24 exposed grid system, hot dipped galvanised steel 'T' section with pre painted capping. Table width 24mm. To suit variable module sizes, most typically 600 x 600mm and 1200 x 600mm.

### Main runners:

38 x 24mm, ref DX24XH370 shall be normally spaced at 1200mm centres and suspended from the structure or soffit using pre-straightened 2mm diameter HDG steel wire hangers, ref DSW2, at typically 1200mm centres. First hanger shall be no more than 450mm from the perimeter. Main runners joined end on by means of the integral splice. Splice connections shall be supported within 150mm with a hanger, and shall be staggered across the ceiling area.

### Cross tees:

1200mm cross tees, 38 x 24mm ref DX24TH120, shall be installed perpendicular between the main runners at 600mm centres to form a 1200 x 600mm module. If applicable, 600mm cross tees, 25 x 24mm ref DX24TS60, shall be installed perpendicular between the 1200mm cross tees to form a 600 x 600mm module. All cross tees feature a 'joggled' end detail.

### Perimeter trims:

29mm x 19mm painted HDG steel angle trim, ref MI 2919, fixed to perimeter wall using fixings

appropriate to the structure at maximum 450mm centres. Corners shall normally be finished with a lapped or butt joint.

### Hangers:

Shall be from pre straightened 2mm diameter HDG steel wire, ref DSW2. Hangers shall be fixed through holes in stalk or bulb of main runner and wrapped around itself a minimum of 3 times. Alternatively, hangers can be formed from 25 x 25mm HDG steel angle section, ref DGA5, fixed to main runners using appropriate self drilling screws or nut and bolt fixings. Hangers shall be normally spaced at 1200mm centres although alternative spacings are acceptable provided maximum loadings stated above are not exceeded. Hangers to be fixed to structure or soffit using fixings appropriate to the structure or soffit.

### Hold down clips:

Where applicable, these shall be non removable type clips, ref VB45. These generally will only be required in certain fire protecting assemblies or where there is a risk of tile uplift. Where fitted, these should be applied to all grid members at a rate of 1 clip per 600mm of tile edge.

## Tile edge supported



DX24 / SQ

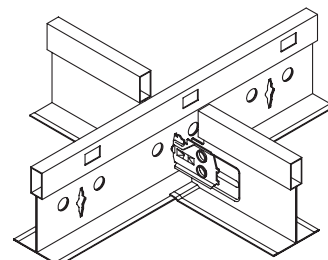


DX24 / SLT



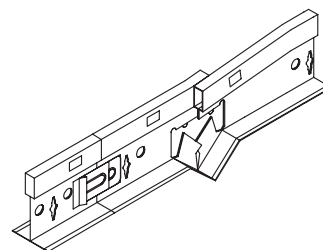
DX24 / SLB

## Cross section



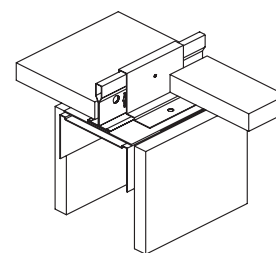
Main tee and cross tee connection.

## Fire protection



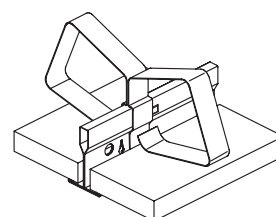
DX main tees are designed to expand at the fire lance in the event of a fire (shown here). This maintains the structural integrity of the ceiling and holds tiles in place.

## DX24 / revoc clip



Partition head fixing using revoc clips with DX24.

## Spring clip 20248



Spring clip application.