Design for hot dip galvanizing





Missing holes for venting and draining on hollow sections can cause dangerous explosions!

Holes for venting and draining must be visible from outside!

Design holes for venting and draining even for open sections



Avoid dead spots/corners - vent unavoidable overlapping surfaces!



Remove paint, welding slag and welding residues!



Avoid bulky components as far as possible!



Holes for venting and draining must have a sufficient size and number and must be visible from outside!

How to read the the table on the right:

A hollow section with the dimension 60 mm x 40 mm requires at each end either

· at least one hole with a diameter of 16 mm or

Avoid overlapping

surfaces and gaps!

- · at least two holes with a diameter of 12 mm or
- · at least four holes with a diameter of 10 mm
- · at least two cut-outs (crops) with a length of 13 mm on the adjacent sides.

The table applies to constructions up to approx. 6 m in length. Longer constructions require additional and/or larger holes.

Reco	Recommended mini-		Number and location of holes or crops at each and of the hollow section										
mum sizes for holes for ventilation and drainage in hollow profiles Section cross-sectional shape and dimensions (mm)			hole	1 hole	2 holes	2 holes	4 holes	4 holes	crops at corners	crops at corners	4 holes of 15 mm + 1 central hole	holes of 15 mm + 1 central hole	crops at corners of 25 mr + 1 central hole L
					0 0		0 0	6				60	0
Round	Square	Rect- angular	Diameter of hole (mm)						Size of crop (mm)		Diameter of central fiole (mm)		
15	15	-	10	10	77/2	-	- 5	-	-	57.	=	表。	0.75
20	20	30 × 15	10	10	4	-	-		-	-		4:	-
30	30	40 × 20	12	12	10	10	0 71	: 370	1	-	= 1	₩.	17.7
40	40	50 × 30	14	14	12	12	-	-	10		-	225	
50	50	60 × 40	16	16	12	12	10	10	13	-			-
60	60	80 × 40	20	20	12	12	10	10	15	12		75%	1.7
80	80	100 × 60	25	20	16	16	12	12	20	15	120	<u>≅</u> 6	111
100	100	120 × 80	30	25	20	20	14	15	25	20	-	-	-
120	120	160 × 80	35	30	25	25	20	20	30	25	- T-1	- T-1	-
160	160	200 × 120	45	40	35	30	25	20	40	30	35	40	-
200	200	260 × 140	60	50	40	35	30	25	50	35	50	40	, , ,
300	300	350 × 250	=	7	60	55	45	40	75	55	80	70	75
400	400	450 × 250	-	-	80	75	60	50	100	75	110	100	110
500	500	600 × 300	100	1770	100	90	75	65	125	90	140	125	135
600	600	700 × 400			120	110	85	75	150	110	170	150	165

Note 1: The shaded holes or crops indicate the hole or crop in the opposite end of the hollow section

The size of crop given in this table refers to the length of the adjacent side Note 2:

(not the diagonal length)

Note 3: Table entries that are not applicable are designated by *-*

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