

# High Steel Structures LLC DXF File Specification

## Preamble

The following specification outlines the format for which High Steel Structures LLC will expect to receive .dxf part files in.

## Layers

Entities are to be grouped into the following layers:

Layer Name	Description	Examples
CUT	Profile Entities	part perimeter, holes, cut-outs
MARK	Marked entities	work points, set lines
DETAIL	Reference entities	direction-of-roll constraints
PARTDATA	Part attributes	grade, thickness, drawing

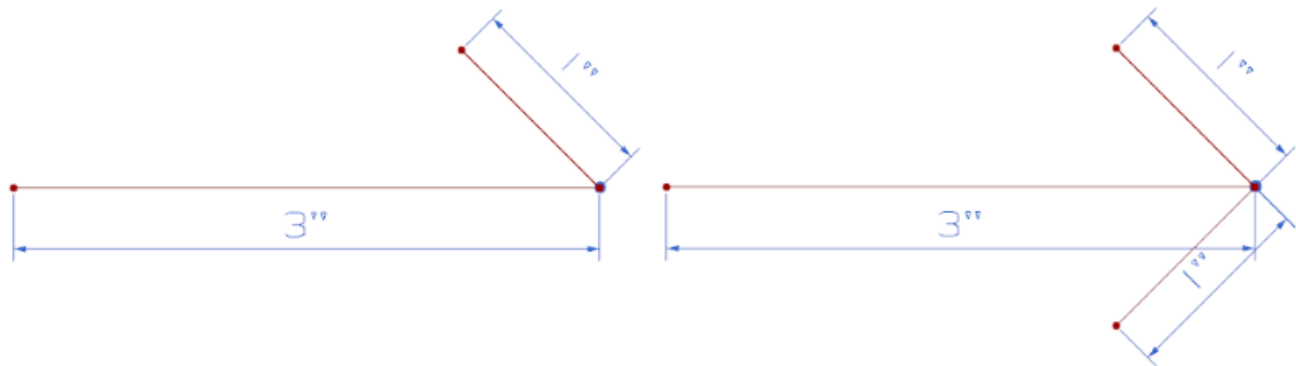
## Key: Value pairs

Text attributes on the PARTDATA layer are to be organized into KEY: VALUE pairs. For example, material grade of A709-50 would result in the string **MATERIAL: A709-50** . Part attributes can be inside or outside the contour of the part, unless the part file has multiple parts in it.

KEY	Value Description	Format	Example(s)
PARTNAME	Part name	[job]_[mark]	1200018A_x1a
MATERIAL	Material grade	[spec]-[grade][test?]	A709-50T2 or A709-50
THICKNESS	Part Thickness (plate items)	integer or decimal	1.375
DRAWING	Drawing number	alphanumeric	1 or X1

## Direction-of-rolling constraing

For parts where there is a requirement of direction of mill rolling, an arrow should be placed on the DETAIL layer in the center of the part. This can be a two line arrow or three line arrow. Only lines are needed. Dimensions and points are for reference.



Example

