

Data set SHAPES0 and SHAPES1

Instance	Number of different pieces	Total number of pieces	Vertices by piece (average)	Feasible orientations (degrees)	Plate width
SHAPES0	4	43	8.75	0	40
SHAPES1	4	43	8.75	0 and 180	40

PIECE 1	0 0	0 4
QUANTITY	6 -6	
15	12 0	PIECE 4
NUMBER OF VERTICES	6 6	QUANTITY
8		12
VERTICES (X,Y)	PIECE 3	NUMBER OF VERTICES
0 0	QUANTITY	12
2 0	9	VERTICES (X,Y)
2 3	NUMBER OF VERTICES	0 0
12 3	11	2 0
12 0	VERTICES (X,Y)	2 -2
14 0	0 0	4 -2
14 5	6 0	4 0
0 5	6 -2	6 0
	7 -2	6 2
PIECE 2	11 2	4 2
QUANTITY	11 4	4 4
7	8 4	2 4
NUMBER OF VERTICES	8 1	2 2
4	2 1	0 2
VERTICES (X,Y)	2 4	

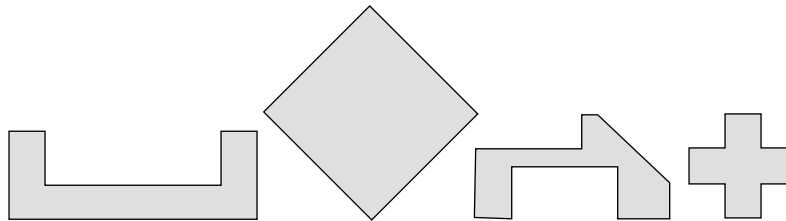


Figure 1: Data set: SHAPES0 and SHAPES1

References

Oliveira, J.F., Gomes, A.M. and Ferreira, J.S., A new constructive algorithm for nesting problems, OR Spektrum (2000) 22: 263-284.