	Comparison between Sargon, NXNASTRAN and NEiNASTRAN					
TEST 12	**VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK**				**Marco Croci**	**06/04/2007**
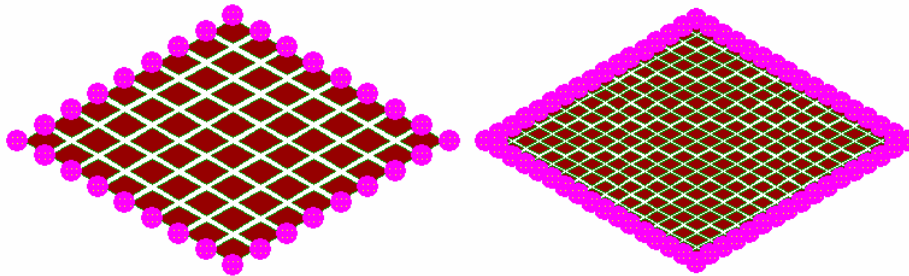
	Sargon (Clever)	Δrel	NXNASTRAN	Δrel	NEiNASTRAN	Δrel
8x8						
Model Name	tes12.WSR		tes12000.dat		tes12.nas	
Output file	tes12.CEN		tes12000.f06		tes12.OUT	
Q1	2,420E+02	2,378E-02	2,441E+02	3,266E-02	2,188E+02	-7,437E-02
16x16						
Model Name	tes12bis.WSR		tes12001.dat		tes12bis.nas	
Output File	tes12bis.CEN		tes12001.f06		tes12bis.OUT	
Q1	2,381E+02	7,276E-03	2,402E+02	1,616E-02	2,318E+02	-1,938E-02

Compared Value:

Q1 = Load Set 1 – Node 13 (center of the plate) – Dz
Target: Timoshenko Value* = 236,4mm

*Computed by Paolo Rugarli using more armonics than Timoshenko (see Paolo
 Rugarli, Calcolo Strutturale con gli Elementi Finiti, EPC Libri, 2003 pag.
 333)

Translations: [mm]

Δrel is computed between each program and the theoretical value (see introduction).

NXNASTRAN and NEiNASTRAN values are rounded up to 4 significant digits.