

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORY2		
(COMPRESSIVE AXIAL FORCE) P	30000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	330	cm	
(HEIGHT OF STORY) h	290	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	5.45	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING ((/))		
	2-CELTIC CROSSING BRACING ((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	538	kg/cm ²	< P = 0.6 F_y OK
(COMPRESSIVE AXIAL STRESS) f_c	538	kg/cm ²	
$6025/(F_y)^{0.5}$	123		
l_{max}	84.6		< 6025/(F_y) ^{0.5} OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B = 1/(1 + 0.5 \times l_{max}/C_c)$	0.75		
$F_{ax} = B.F_a$	760	kg/cm ²	> f_a OK

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORY1		
(COMPRESSIVE AXIAL FORCE) P	40000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	350	cm	
(HEIGHT OF STORY) h	295	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	5.45	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING ((/))		
	2-CELTIC CROSSING BRACING ((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	558	kg/cm ²	< $f_t=0.6F_y$ OK
(COMPRESSIVE AXIAL STRESS) f_c	744	kg/cm ²	
$6025/(F_y)^{0.5}$	123		
l_{max}	84.6		< $6025/(F_y)^{0.5}$ OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B=1/(1-0.5l_{max}/C_c)$	0.75		
$F_{ax}=B.F_a$	760	kg/cm ²	> f_a OK

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORY4		
(COMPRESSIVE AXIAL FORCE) P	38000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	350	cm	
(HEIGHT OF STORY) h	320	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	3.43	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING((/))		
	2-CELTIC CROSSING BRACING((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	538	kg/cm ²	< $F_t=0.6F_y$ OK
(COMPRESSIVE AXIAL STRESS) f_c	707	kg/cm ²	
$6025/(F_y)^{2.5}$	123		
l_{max}	84.6		< $6025/(f_y)^{2.5} \times 0.5$ OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B=1/(1-0.5 \times l_{max}/C_c)$	0.75		
$F_{ax}=B.F_a$	760	kg/cm ²	> f_a OK

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORYS		
(COMPRESSIVE AXIAL FORCE) P	21000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	350	cm	
(HEIGHT OF STORY) h	320	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	5.45	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING((/))		
	2-CELTIC CROSSING BRACING((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	558	kg/cm ²	< $P=0.6F_y$ OK
(COMPRESSIVE AXIAL STRESS) f_c	391	kg/cm ²	
$6025/(F_y)^{0.5}$	123		
l_{max}	84.6		< $6025/(F_y)^{0.5}$ OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B=1/(1+0.5 \times l_{max}/C_c)$	0.75		
$F_{ax}=B.F_a$	760	kg/cm ²	> f_a OK

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORY3		
(COMPRESSIVE AXIAL FORCE) P	35000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	330	cm	
(HEIGHT OF STORY) h	320	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	5.45	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING ((/))		
	2-CELTIC CROSSING BRACING ((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	558	kg/cm ²	< $F_t=0.6F_y$ OK
(COMPRESSIVE AXIAL STRESS) f_c	631	kg/cm ²	
$6023/(F_y)^{2.5}$	123		
l_{max}	84.6		< $6023/(f_y)^{2.5}$ OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B=1/(1-0.5l_{max}/C_c)$	0.75		
$F_{ax}=B.F_a$	760	kg/cm ²	> f_a OK

INPUT INFORMATION:

(NUMBER OF STORIES OF STRUCTURE) n	2		
BRACE TYPE:	BR1		
BRACE POSITION:	STORY6		
(COMPRESSIVE AXIAL FORCE) P	15000	kg	(SERVIS LOADS)
(TENSILE AXIAL FORCE) T	30000	kg	
(HORIZONTAL LENGTH) L_x	300	cm	
(VERTICAL LENGTH) L_y	350	cm	
(HEIGHT OF STORY) h	320	cm	
BRACE SECTION:	2U140		
(AREA) A	40	cm ²	
r_x	3.45	cm	
r_y	6.30	cm	
(ELASTICITY COEFFICIENT) E	2050000		
(YIELD STRESS) F_y	2400	kg/cm ²	
TYPE OF BRACING:	6		
	1-DIAMETRIC BRACING ((/))		
	2-CELTIC CROSSING BRACING ((X))		
	3-((V)) OR ((L)) BRACING		
	4-((K)) BRACING		
	5-SPECIAL BRACING		
	# 6-OTHER BRACINGS		

OUTPUT INFORMATION:

(ANGLE BETWEEN BRACE AND HORIZONTAL-DIRECTION)			
(LENGTH OF BRACE) L	461	cm	
K_x	1.00		
K_y	1.00		
(TENSILE AXIAL STRESS) f_t	558	kg/cm ²	$< F_t = 0.6F_y$ OK
(COMPRESSIVE AXIAL STRESS) f_c	279	kg/cm ²	
$6025/(F_y)^{2.2}$	123		
l_{max}	84.6		$< 6025/(F_y)^{2.2}$ OK
(ALLOWABLE STRESS) F_a	1007	kg/cm ²	
$B = 1/(1 - 0.5l_{max}/C_t)$	0.75		
$F_{ax} = B.F_a$	760	kg/cm ²	$> f_c$ OK