

## BUILDING CODE SUMMARY FOR ALL <u>NEW</u> COMMERCIAL CONSTRUCTION PROJECTS

Project Name:					
				Zip Co	de
Owner:		Phone	#()		
WHO PREPARED THE	PLAN PACKAGE?				
Structural	FIRM		LICENSE ;	#       TELEPHONE #         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()	E-MAIL
Check Which Cod 2018 NC BUILD					
Building		○ Electrical		○ Fire	
O Mechanical		) Plumbing		O Alternative Method	*
*Alternative Me	thod must be a recog pack		nethod and	all information submit	ted with this plan
BASIC BUILDI You can view the N		Building Codes at: <u>ht</u> i	tps://www.	ncosfm.gov/codes/code	s-current-and-past
	<b>pe :</b> check which one uilding Code Chapter 6	applies, there can on	ly be one.		

O Type I construction (602.2): Type I construction is non-combustible building materials. See also section 603

O Type II construction (602.2): Type II construction is non-combustible building materials. See also section 603

○ Type III construction (602.3): Type III construction is exterior walls are constructed of non-combustible materials and interior construction is of any material allowed by code.

○ Type IV construction (602.4): Type IV construction uses HEAVY TIMBER building materials. Heavy Timber is not nominal graded lumber.

O Type V construction (602.5): Type V construction uses any building material allowed by code.

 Will Sprinklers be installed?:
 Will Standpipes be installed?:

 Is the project located in the City of Fayetteville's Fire District?:
 You can contact the City of Fayetteville's Planning and Zoning Division at (910) 433- 1612 for more information.

 Is the project in the City of Fayetteville's Historic District(s)?:
 You can contact the City of Fayetteville's Planning and Zoning Division at (910) 433- 1612 for more information.

 Is the project in a designated Flood Hazard Area?:
 You can contact the City of Fayetteville's Engineering Division at (910) 433- 1648 for more information.

Are Special Inspections Required?: \_\_\_\_\_

See North Carolina Building Code Chapter17

#### Gross Building Area Table in Square Feet (length x width)

1 <sup>st</sup> Floor		
2 <sup>nd</sup> Floor		
3rd Floor		
4 <sup>th</sup> Floor		
5 <sup>th</sup> Floor		
6 <sup>th</sup> Floor		
Mezzanine		
Basement		
Total		

• If more floors are part of the project, please list on plan package

<u>I I IIIiai j</u>	Timury Occupancy Chassinearion(b): See North Carolina Banang code Chapter 5 check one								
() A-1	303.2	A-2 303.3	A-3 303.4	A-4 303.5	◯ A-5 <u>303.6</u>	O B 304.1			
ОE	305.1	E Day care 305.2	) F-1 306.2	○ F-2 306.3	◯ H-1 307.3	◯ H-2 307.4			
() н-з	307.5	◯ H-4 307.6	○ H-5 307.7	) I-1 <u>308.1</u>	O I-2 308.4	O I-3 308.5			
0 1-4	308.6	Ом <u>309.1</u>	○ R-1 310.3	○ R-2 310.4	○ R-3 310.5	O R-4 310.6			
○ S-1	311.2	○ S-2 311.3	O U 312.1						

Primary Occupancy Classification(s): See North Carolina Building Code Chapter 3 Check one

#### Accessory Occupancy Classification(s): Select one or more O NOT APPLICIABLE

	<i>v</i>					
() A-1	303.2	A-2 303.3	◯ A-3 303.4	○ A-4 303.5	○ A-5 303.6	O B 304.1
Oe	305.1	E Day care 305.2	) F-1 <u>306.2</u>	○ F-2 306.3	◯ H-1 307.3	◯ H-2 307.4
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01-4	308.6	ОМ <u>309.1</u>	O R-1 310.3	○ R-2 310.4	○ R-3 310.5	O R-4 310.6
() S-1	311.2	○ S-2 311.3	O U 312.1			

Incidental Uses (Table 509):	
Special Uses (Chapter 4 – List Code Sections):	
Special Provisions: (Chapter 5 – List Code Sections):	

Mixed Occupancy: O YES / O NO See North Carolina Building Code Chapter 3 and section 508; table 508.4

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#### **Separation of Occupancies :**

$\bigcirc$ 1 hour	$\bigcirc$ 2 hour	◯ 3 hour
O 4 hour	○ Non-Separated Mix Use 508.3	

#### ALLOWABLE AREA

<u>Actual Area of Occupancy A</u> Allowable Area of Occupancy A  $\frac{Actual Area of Occupancy B}{Allowable Area of Occupancy B} \leq 1$ 

+ ..... = <u>≤</u>1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER	(B) TABLE 506.2 <sup>4</sup>	(C) AREA FOR FRONTAGE	(D) Allowable area Per
NO.	USE	STORY (ACTUAL)	AREA	INCREASE <sup>1,5</sup>	STORY OR UNLIMITED <sup>2,3</sup>

<sup>1</sup> Frontage area increases from Section 506.3 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)

- b. Total Building Perimeter = \_\_\_\_\_(P)
- c. Ratio (F/P) = \_\_\_\_\_ (F/P)
- d. W = Minimum width of public way = \_\_\_\_\_(W)

e. Percent of frontage increase  $I_f = 100[F/P - 0.25] \times W/30 =$  (%)

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4.

<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

#### ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 504.3) <sup>2</sup>			
Building Height in Stories (Table 504.4) <sup>3</sup>			

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

<sup>2</sup> The maximum height of air traffic control towers must comply with Table 412.3.1.

<sup>3</sup> The maximum height of open parking garages must comply with Table 406.5.4.

# FIRE PROTECTION REQUIREMENTS

SEPARTION DISTANCE (YEET)         PROVED (W	BUILDING ELEMENT	FIRE	RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #
Image: structural Frame, including columns, girders, trassesImage: structural Frame, including columns, girders, trans, trassesImage: structural Frame, including columns, girders, trans,			i i i i i i i i i i i i i i i i i i i				
Structural Frame, including columns, girders, trusses       Inclusion       Joint Columns, including columns, girders, trusses         Bearing Walls       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         North       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         South       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         Noth       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         Noth       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         Nobecaring Walls and Partitions       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses         Noth       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses       Image: Columns, girders, trusses, girders, trusses       Image: Columns, girders, trusses, girders, trusses       Image: Columns, girders, trusses, girders, girders, trusses, girders, trusses, girders, trusses, girders, girders			(	SHEET #	RATED	PENETRATION	RATED
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North         Image: state in the stat							
East       Image: Construction of the second s							
West       Image: Construction including supporting beams and joists       Image: Construction including supporting floors       Image: Construction including supporting beams and joists       Image: Construction including supp							
South       Interior       Image: Construction of the second seco							
Interior       Image: Construction of the second of the sec							
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Sleeping Unit Separation	Smoke Partition						
Incidental Use Separation							
	Incidental Use Separation						

\* Indicate section number permitting reduction

#### **PERCENTAGE OF WALL OPENING CALCULATIONS** (DOORS, WINDOWS, ETC. IN EXTERIOR WALLS)

SEE NORTH CAROLINA BOLDING CODE SECTION 705									
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)						

#### SEE NORTH CAROLINA BUILDING CODE SECTION 705

#### LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: see 1008.3 **YES**/ **NO** Exit Signs: see 1013 **YES**/ **NO** Fire Alarm: see 907.2 **YES**/ **NO** Smoke Detection Systems: see 907.2.1 to 907.8 **YES**/ **NO** Carbon Monoxide Detection: see 915 **YES**/ **NO** 

#### LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: \_

	Fire and/or	smoke rated	wall locations	(Chapter 7)
--	-------------	-------------	----------------	-------------

- Assumed and real property line locations (if not on the site plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit sign locations (1013)
- Exit access travel distances (1017)
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- $\Box$  Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- $\Box$  The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

#### ACCESSIBLE DWELLING UNITS (SECTION 1107)

UNIT CLASSIFICATION	Total Units	Accessible Units Required	Accessible Units Provided	TYPE A Units Required	Type A Units Provided	TYPE B Units Required	Type B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED

#### ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE S	PACES PROVIDED	TOTAL # ACCESSIBLE	
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED	
TOTAL						

### PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

	USE		WATERCLOSETS		URINALS	LAVATORIES		SHOWERS DRINKIN		FOUNTAINS		
			MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
5	SPACE	EXIST'G										
		NEW										
		REQ'D										

You can submit a complete and approved COMCHECK in lieu of filling out the below. COMCHECK's can be found at: https://www.energycodes.gov/comcheck

#### ENERGY REQUIREMENTS:

## ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

#### Existing building envelope complies with code: <u>Select one</u>

**Exempt Building:** <u>Select one</u> Provide code or statutory reference:

Climate Zone: Select one

Method of Compliance: <u>Select one</u> (If "Other" specify source here)\_\_\_\_\_

#### **THERMAL ENVELOPE** (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:
Exterior Walls (each assembly)
Description of assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:
Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:

## 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

## (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

## **DESIGN LOADS:**

Importance Factors:	Snow (I <sub>S</sub> ) Seismic (I <sub>E</sub> )			
Live Loads:	Roof Mezzanine Floor	psf psf psf		
Ground Snow Load:	ps	f		
	timate Wind Spe posure Category		mph	(ASCE-7)
SEISMIC DESIGN CATEGOR	Y: Select one			
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Acce	504.5) <u>s</u>	Select one	S1	%g
Site Classification (ASC	· · · · ·	Select one Select one		
Basic structural system Analysis Procedure: Architectural, Mechanic	Select one Select one		ect one	
LATERAL DESIGN CONTROL	L: <u>Select one</u>			
SOIL BEARING CAPACITIES	:			
Select one Pile size, type, and capacit				

## 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

#### MECHANICAL SUMMARY

#### MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

## Thermal Zone winter dry bulb:

summer dry bulb:	
Interior design conditions	
winter dry bulb: summer dry bulb: relative humidity:	
Building heating load:	
Building cooling load:	
Mechanical Spacing Conditioning System	
Unitary	
description of unit:	
heating efficiency:	
cooling efficiency:	
size category of unit:	
Boiler	
Size category. If oversized, state reason.:	
Chiller	
Size category. If oversized, state reason .:	
List equipment efficiencies:	

## 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

#### ELECTRICAL SUMMARY

#### ELECTRICAL SYSTEM AND EQUIPMENT

#### Method of Compliance: Select one

#### Lighting schedule (each fixture type)

lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed

## Additional Efficiency Package Options

#### (When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance

C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System

C406.7 Reduced Energy Use in Service Water Heating