

STATE OF CALIFORNIA Envelope Component Approach NICC-ENV-4 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE TORRANCE FIRE STATION #4 Report Page: 3 of 10 Project Address: 5205 Calle Mayor Date Prepared: 9/1/2021

A. GENERAL INFORMATION

01	Project Location (City)	Torrance	04	# of Stories (Habitable Above Grade)	1
02	Zipcode	90505	06	Total Conditioned Floor Area (ft²)	2295
03	Climate Zone	6	07	Total Unconditioned Floor Area (ft²)	0

B. PROJECT SCOPE

My project consists of (check all that apply)

Component Types	<input checked="" type="checkbox"/> New Construction or Newly Conditioned Space	<input checked="" type="checkbox"/> Roof	<input checked="" type="checkbox"/> Exterior Doors
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	<input type="checkbox"/> Floors	<input type="checkbox"/> Exterior Doors	<input type="checkbox"/> Fenestrations/Glazing Doors*
<input type="checkbox"/> Addition of conditioned space	<input type="checkbox"/> Walls	<input type="checkbox"/> Fenestrations/Glazing Doors*	<input type="checkbox"/> Fenestrations/Glazing Doors*
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestrations/Glazing Doors*	<input type="checkbox"/> Fenestrations/Glazing Doors*
<input type="checkbox"/> Addition of conditioned space	<input type="checkbox"/> Walls	<input type="checkbox"/> Fenestrations/Glazing Doors*	<input type="checkbox"/> Fenestrations/Glazing Doors*
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	<input type="checkbox"/> Roofing Material	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestrations/Glazing Doors*
<input type="checkbox"/> Addition of conditioned space	<input type="checkbox"/> Roofing Material	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestrations/Glazing Doors*

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H. WALL ASSEMBLY SCHEDULE

Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ft²
North Wall-2	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	20
North Wall-3	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	80
East Wall-2	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	30
West Wall-2	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	138
North Wall-2	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	68
East Wall-2	Residential/Retractable 1 CZ: New	J&A Tables	Exterior wall	Wood 1/2" gap 16" OC	R 19	0.0	U-factor	0.11	0.074	150

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L. DAYLIGHT IN LARGE ENCLOSED SPACES

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-09-01 15:32:00 Registration Date/Time: 2021-09-01 15:32:00 Registration Provider: Energsoft

STATE OF CALIFORNIA Mechanical Systems NICC-MCH-4 CALIFORNIA ENERGY COMMISSION

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	System Type	System Design	System Design	System Design	System Design	System Design	System Design	System Design	System Design	
CU-2VCF-2.2-Ton	Variable Refrigerant Flow	WFH heat pump, air cooled	NK Load Controls	62.4	62.4	0	20.21	16.1	62.7	36.63
CU-2VCF-2.2-Ton	Variable Refrigerant Flow	WFH heat pump, air cooled	NK Load Controls	0	80	0	10.44	11.9	7.21	5.39

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C. COMPLIANCE RESULTS

D. EXCEPTIONAL CONDITIONS

F. ROOF ASSEMBLY SCHEDULE

Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ft²
Roof-1	J&A Tables	Wood	Floors	Doors	Doors	Doors	Doors	Doors	Doors	Doors

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K. FINESTRATION AND GLAZED DOOR SCHEDULE

Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	FRS/MC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design	Product Performance Unit	Required Product Performance	U-factor (max)	Product Performance per Design	Area ft²	
North Window-1	Fired window	Residential/Retractable 1 CZ: Ab. Replacement + 150R2	Table 140.3.8-C/D	Table 140.3.8-C/D	NFRC Certified	U-factor (max)	0.47	0.45	0.31	0.3	30
West Window-1	Fired window	Residential/Retractable 1 CZ: Ab. Replacement + 150R2	Table 141.4.D	Table 140.3.8-C/D	NFRC Certified	U-factor (max)	0.47	0.45	0.31	0.3	90
South Window-1	Fired window	Residential/Retractable 1 CZ: Ab. Replacement + 150R2	Table 141.4.D	Table 140.3.8-C/D	NFRC Certified	U-factor (max)	0.47	0.45	0.31	0.3	51

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Mechanical Systems

Documentation Author's Declaration Statement

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North Window-2	Fired window	Residential/Retractable 1 CZ: New	Table 140.3.8-C/D	Table 140.3.8-C/D	NFRC Certified	U-factor (max)	0.36	0.45	0.25	0.3	12
North Window-2	Fired window	Residential/Retractable 1 CZ: New	Table 140.3.8-C/D	Table 140.3.8-C/D	NFRC Certified	U-factor (max)	0.36	0.45	0.25	0.3	12

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WILLIAM LOYD JONES ARCHITECT

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TITLE 24

CITY OF TORRANCE
FIRE DEPARTMENT
FIRE STATION 4 RENOVATION

5205 CALLE MAYOR
TORRANCE, CA 90505

Issue

Date 01.SEP.21

Drawn FG

Checked CD

Scale

Job No. --

T24-1

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