



## Deliverable D7.3

### Set of FDS codes of real microscale examples simulations

<b>WP - Task</b>	WP7 – Task 7.3	<b>Version <sup>(1)</sup></b>	Final
<b>Code (file name)</b>	D7.3_F_Set of FDS codes on real examples	<b>Dissemination level <sup>(2)</sup></b>	Public
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<b>Abstract</b>	<p>This document gathers three examples of FDS code to simulate vulnerability of real WUI microscale properties. The three cases are used as baseline scenarios in D7.2. The first two examples are for a Spanish case study, while the third one is the code for a property located in Sweden.</p> <p>This deliverable underlines the WUIVIEW consortium commitment to share our FDS codes with the community of practitioners, so to improve and explore better and new applications for the protection of structures in forest fire environments.</p>
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(1) Draft / Final

(2) Public / Restricted / Internal

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## 1. About this deliverable

WUIVIEW stands for Wildland-Urban Interface Virtual Essays Workbench, and it is a project funded by the Directorate General for European Civil Protection and Humanitarian Aid Operations (DG ECHO) and coordinated by the Universitat Politècnica de Catalunya (Spain). The project objective is to develop a 'virtual laboratory' based on Performance Based Design (PBD) and Computational Fluid Dynamics (CFD) models for the analysis and assessment of the processes and factors driving structure affectation in forest fires. The results will serve as guidelines and recommendations of good practices for the protection and prevention of forest fires in European communities inserted in forested lands.

The project is divided into 8 work packages, out of which work package 7 is devoted to showcase the methods and findings of the WUIVIEW virtual laboratory by analysing real WUI settlements. The document at hand is the third deliverable of WP7. It provides a set of FDS codes of three of the simulations on real microscale examples described in deliverable 7.2. By sharing these codes, we believe we are contributing to improve and better explore the use of CFD simulators for the protection of structures in forest fire environments.

## 2. Scenario 1: Entrepinos low frequency – high consequences

### 2.1. Scenario description

Scenario 1 consists of the case study of the property of Entrepinos, scenario *low frequency high consequences* described in deliverable 7.2. The fire is located on the east side of the property, as can be seen in Figure 1.

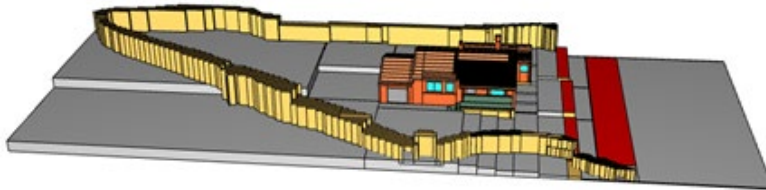


Figure 1: Scenario 1

The hedge and the trees are simulated as flat surfaces (vents) with an assigned HRRPUA and residence time. Wind is simulated blowing from the east side, thus pushing the flames towards the building.

Outputs are recorded by devices that are placed on the glass of the windows. They record the radiative heat flux onto the glass along with its surface temperature over time. Gas temperatures by solid surfaces and incident heat flux onto these surfaces, along with wall temperatures are also recorded in boundary files. Slice files are placed to measure temperatures, velocities and species concentrations at different locations on the property.

The simulation ran for about 1.5 days on a PC with 38 logical processors. FDS version 6.7.5 was used.

### 2.2. FDS code

Simulation time and initial conditions

```
&HEAD CHID='entrepinos_LFHC'/
&TIME T_END=60.0/
&MISC TMPA=35.0/
&MISC HUMIDITY=15.0/
&WIND Z_REF=10.0, SPEED=5.55, DIRECTION=90., L=1.0E6, Z_0=0.5 /
```

Domain

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&MESH ID='Mesh4A', IJK=94,40,60, XB=49.8,59.2,26.8,30.8,0.0,6.0/
&MESH ID='Mesh5A', IJK=90,48,52, XB=40.8,49.8,40.4,45.2,0.8,6.0/
&MESH ID='Mesh6A', IJK=42,62,52, XB=36.6,40.8,29.2,35.4,0.8,6.0/
&MESH ID='Mesh6B', IJK=32,74,52, XB=40.8,44.0,21.8,29.2,0.8,6.0/
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```

```
&MESH ID='Mesh9', IJK=60,64,60, XB=49.8,55.8,34.0,40.4,0.0,6.0/  
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&MESH ID='Mesh11A', IJK=60,48,60, XB=49.8,55.8,40.4,45.2,0.0,6.0/  
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&MESH ID='Mesh16A', IJK=94,32,60, XB=49.8,59.2,30.8,34.0,0.0,6.0/  
&MESH ID='MEsh17A', IJK=90,38,52, XB=40.8,49.8,36.6,40.4,0.8,6.0/  
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&MESH ID='Mesh19A', IJK=22,292,34, XB=61.8,64.0,16.0,45.2,4.6,8.0/  
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&MESH ID='Mesh29E', IJK=47,19,26, XB=31.4,40.8,18.0,21.8,0.8,6.0/  
&MESH ID='MEsh29F', IJK=47,56,4, XB=31.4,40.8,18.0,29.2,0.0,0.8/  
&MESH ID='Mesh29G', IJK=10,80,8, XB=-0.6,1.4,29.2,45.2,0.0,1.6/  
&MESH ID='Mesh30', IJK=362,146,5, XB=-0.6,71.8,16.0,45.2,8.0,9.0/  
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&MESH ID='Mesh31C', IJK=160,80,3, XB=-0.6,31.4,29.2,45.2,1.6,2.2/  
&MESH ID='MEsh31D', IJK=160,66,4, XB=-0.6,31.4,16.0,29.2,0.0,0.8/  
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&MESH ID='MEsh31F', IJK=47,56,4, XB=31.4,40.8,29.2,40.4,0.0,0.8/  
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&MESH ID='Mesh31J', IJK=47,10,30, XB=31.4,40.8,16.0,18.0,0.0,6.0/  
&MESH ID='Mesh32A', IJK=45,146,4, XB=40.8,49.8,16.0,45.2,0.0,0.8/  
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&MESH ID='MEsh32C', IJK=47,146,10, XB=31.4,40.8,16.0,45.2,6.0,8.0/  
&MESH ID='MEsh 33', IJK=160,80,19, XB=-0.6,31.4,29.2,45.2,2.2,6.0/  
&MESH ID='Mesh 34A', IJK=160,66,18, XB=-0.6,31.4,16.0,29.2,0.8,4.4/  
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&MESH ID='MEsh35B-b', IJK=71,40,4, XB=1.4,29.8,29.2,45.2,0.0,1.6/  
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&MESH ID='MESH37', IJK=58,74,45, XB=71.8,83.4,16.0,30.8,0.0,9.0/  
&MESH ID='MESH38', IJK=58,72,45, XB=71.8,83.4,30.8,45.2,0.0,9.0/
```

Domain boundaries

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&VENT ID='Vent51', SURF_ID='OPEN', XB=-0.6,83.4,45.2,45.2,0.0,19.8/
```

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&VENT ID='Vent52', SURF_ID='OPEN', XB=-0.6,69.8,16.0,45.2,19.8,19.8/
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&VENT ID='Vent54', SURF_ID='PERIODIC FLOW ONLY', XB=83.4,83.4,16.0,45.2,0.0,19.8/
&VENT ID='Vent', SURF_ID='OPEN', XB=-0.6,83.4,16.0,16.0,0.0,19.8/
```

#### Fire inputs

```
&REAC ID='Reaction', HEAT_OF_COMBUSTION=1.8E4, FUEL='COMPOSED CELLULOSE',
SPEC_ID_NU='AIR','COMPOSED CELLULOSE','PRODUCTS', NU=-9.097,-1.0,1.0/
&SPEC ID='CARBON MONOXIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='WATER VAPOR', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='HYDROGEN CYANIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='CARBON DIOXIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='FORMALDEHYDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='NITROGEN', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='SOOT', LUMPED_COMPONENT_ONLY=.TRUE., FORMULA='C'/
&SPEC ID='OXYGEN', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='ACETIC ACID', FORMULA='C2.H4.O2.', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='COMPOSED CELLULOSE', FORMULA='C1.0H1.347000.6736N0.0006', SPECIFIC_HEAT=1.0/
&SPEC ID='AIR', BACKGROUND=.TRUE., SPEC_ID(1)='OXYGEN', SPEC_ID(2)='NITROGEN',
VOLUME_FRACTION(1)=0.1, VOLUME_FRACTION(2)=0.376/
&SPEC ID='PRODUCTS', SPEC_ID(1)='CARBON DIOXIDE', SPEC_ID(2)='CARBON MONOXIDE',
SPEC_ID(3)='SOOT', SPEC_ID(4)='HYDROGEN CYANIDE', SPEC_ID(5)='ACETIC ACID',
SPEC_ID(6)='FORMALDEHYDE', SPEC_ID(7)='WATER VAPOR', SPEC_ID(8)='NITROGEN',
VOLUME_FRACTION(1)=0.8611, VOLUME_FRACTION(2)=0.0976, VOLUME_FRACTION(3)=0.0369,
VOLUME_FRACTION(4)=6.0E-4, VOLUME_FRACTION(5)=1.1E-3, VOLUME_FRACTION(6)=1.6E-3,
VOLUME_FRACTION(7)=0.6694, VOLUME_FRACTION(8)=3.420472/
&SURF ID='Fire_Hedge', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge_RAMP_Q'/
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&RAMP ID='Fire_Hedge_RAMP_Q', T=1.0, F=1.0/
&RAMP ID='Fire_Hedge_RAMP_Q', T=20.0, F=1.0/
&RAMP ID='Fire_Hedge_RAMP_Q', T=21.0, F=0.0/
&SURF ID='Fire_trees', COLOR='RED', HRRPUA=5000.0, RAMP_Q='Fire_trees_RAMP_Q'/
&RAMP ID='Fire_trees_RAMP_Q', T=0.0, F=0.0/
&RAMP ID='Fire_trees_RAMP_Q', T=1.0, F=1.0/
&RAMP ID='Fire_trees_RAMP_Q', T=45.0, F=1.0/
&RAMP ID='Fire_trees_RAMP_Q', T=46.0, F=0.0/
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&VENT ID='Fire_hedge2', SURF_ID='Fire_Hedge', XB=62.155188,63.55518,28.58432,36.607313,0.9,0.9/
&VENT ID='Fire_hedge3', SURF_ID='Fire_Hedge', XB=61.779068,63.17906,36.60731,45.274474,1.2,1.2/
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```

#### Material definition

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&MATL ID='FIRE BRICK', FYI='NBSIR 88-3752 - NBS Multi-Room Validation', SPECIFIC_HEAT=1.04,
CONDUCTIVITY_RAMP='FIRE BRICK_CONDUCTIVITY_RAMP', DENSITY=750.0, EMISSIVITY=0.8/
&RAMP ID='FIRE BRICK_CONDUCTIVITY_RAMP', T=20.0, F=0.36/
&RAMP ID='FIRE BRICK_CONDUCTIVITY_RAMP', T=200.0, F=0.36/
&RAMP ID='FIRE BRICK_CONDUCTIVITY_RAMP', T=300.0, F=0.38/
&RAMP ID='FIRE BRICK_CONDUCTIVITY_RAMP', T=600.0, F=0.45/
&MATL ID='TILE MATERIAL', FYI='UL Report NC987-96NK37863 - UL NFPRF Validation',
SPECIFIC_HEAT=0.75, CONDUCTIVITY=0.0611, DENSITY=313.0/
&MATL ID='CONCRETE', FYI='NBSIR 88-3752 - ATF NIST Multi-Floor Validation', SPECIFIC_HEAT=1.04,
CONDUCTIVITY=1.8, DENSITY=2280.0/
```

```
&MATL ID='STEEL', FYI='Drysdale, Intro to Fire Dynamics - ATF NIST Multi-Floor Validation',
SPECIFIC_HEAT=0.46, CONDUCTIVITY=45.8, DENSITY=7850.0, EMISSIVITY=0.95/
&MATL ID='Glass', SPECIFIC_HEAT=0.82, CONDUCTIVITY=0.95, DENSITY=2500.0/
```

#### Surface definition

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&SURF ID='Brick', RGB=255,102,51, TEXTURE_MAP='psm_brick.jpg', TEXTURE_WIDTH=0.812801,
TEXTURE_HEIGHT=0.812801, BACKING='EXPOSED', MATL_ID(1,1)='FIRE BRICK',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=0.2/
&SURF ID='Tiles', RGB=255,153,102, BACKING='VOID', MATL_ID(1,1)='TILE MATERIAL',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=0.15/
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MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=0.15/
&SURF ID='Doors', COLOR='GRAY 60', BACKING='VOID', MATL_ID(1,1)='STEEL',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=0.1/
&SURF ID='Glass', RGB=51,255,255, BACKING='VOID', MATL_ID(1,1)='Glass',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=3.0E-3/
&SURF ID='ADIABATIC', COLOR='GRAY 80', ADIABATIC=.TRUE./
```

#### Geometry

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&OBST ID='Parapeto sur', XB=50.1,50.6,27.25,30.5,0.0,1.6, SURF_ID='Brick'/
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&OBST ID='FACH Sur casita', XB=56.3,58.3,34.55,34.7,1.1,2.7, SURF_ID='Brick'/
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&OBST ID='FACH Este Sotano', XB=56.3,56.5,28.45,28.75,2.95,4.2, SURF_ID='Brick'/
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### 3. Scenario 2: Entrepinos high frequency – low consequences

#### 3.1. Scenario description

Scenario 2 (Figure 2) consists of the simulation of the *high frequency – low consequences* scenario for the case study of Entrepinos presented in deliverable 7.2.

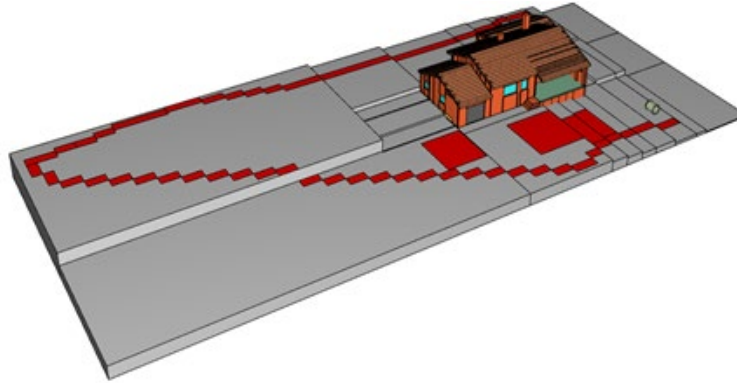


Figure 2: Scenario 2 setup

The hedgerow is simulated as flat surfaces (vents) with an assigned HRRPUA, residence time and spread rate. Wind is simulated blowing from the west side, thus pushing the flames towards the building.

Outputs are recorded by devices that are placed on the glass of the windows. They record the radiative heat flux onto the glass along with its surface temperature over time. Gas temperatures by solid surfaces and incident heat flux onto these surfaces, along with wall temperatures are also recorded in boundary files. Slice files are placed to measure temperatures, velocities and species concentrations at different locations on the property.

The simulation ran for about 3.3 days on a PC with 28 logical processors. FDS version 6.7.5 was used.

#### 3.2. FDS code

Simulation time and initial conditions

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&TIME T_END=200.0/
&MISC TMPA=35.0/
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&WIND Z_REF=10.0, SPEED=5.55, DIRECTION=270., L=1.0E6, Z_0=0.5 /
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Domain

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Fire inputs

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SPEC_ID(6)='FORMALDEHYDE', SPEC_ID(7)='WATER VAPOR', SPEC_ID(8)='NITROGEN',
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VOLUME_FRACTION(4)=6.0E-4, VOLUME_FRACTION(5)=1.1E-3, VOLUME_FRACTION(6)=1.6E-3,
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&RAMP ID='Fire_Hedge017_RAMP_Q', T=84.1, F=0.0/
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&RAMP ID='Fire_Hedge018_RAMP_Q', T=88.1, F=0.0/
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&RAMP ID='Fire_Hedge020_RAMP_Q', T=96.0, F=1.0/
&RAMP ID='Fire_Hedge020_RAMP_Q', T=96.1, F=0.0/
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&RAMP ID='Fire_Hedge022_RAMP_Q', T=104.1, F=0.0/
&SURF ID='Fire_Hedge023', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge023_RAMP_Q'/
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&RAMP ID='Fire_Hedge023_RAMP_Q', T=87.9, F=0.0/
&RAMP ID='Fire_Hedge023_RAMP_Q', T=88.0, F=1.0/
&RAMP ID='Fire_Hedge023_RAMP_Q', T=108.0, F=1.0/
&RAMP ID='Fire_Hedge023_RAMP_Q', T=108.1, F=0.0/
&SURF ID='Fire_Hedge024', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge024_RAMP_Q'/
&RAMP ID='Fire_Hedge024_RAMP_Q', T=0.0, F=0.0/
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&RAMP ID='Fire_Hedge025_RAMP_Q', T=116.1, F=0.0/
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&RAMP ID='Fire_Hedge026_RAMP_Q', T=121.0, F=0.0/
&SURF ID='Fire_Hedge027', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge027_RAMP_Q'/
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&RAMP ID='Fire_Hedge027_RAMP_Q', T=124.4, F=1.0/
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&RAMP ID='Fire_Hedge028_RAMP_Q', T=108.4, F=1.0/
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&RAMP ID='Fire_Hedge028_RAMP_Q', T=128.5, F=0.0/
&SURF ID='Fire_Hedge029', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge029_RAMP_Q'/
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&RAMP ID='Fire_Hedge029_RAMP_Q', T=132.0, F=1.0/
&RAMP ID='Fire_Hedge029_RAMP_Q', T=132.1, F=0.0/
&SURF ID='Fire_Hedge030', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge030_RAMP_Q'/
&RAMP ID='Fire_Hedge030_RAMP_Q', T=0.0, F=0.0/
&RAMP ID='Fire_Hedge030_RAMP_Q', T=115.4, F=0.0/
&RAMP ID='Fire_Hedge030_RAMP_Q', T=115.5, F=1.0/
&RAMP ID='Fire_Hedge030_RAMP_Q', T=135.5, F=1.0/
&RAMP ID='Fire_Hedge030_RAMP_Q', T=135.6, F=0.0/
&SURF ID='Fire_Hedge031', COLOR='RED', HRRPUA=4500.0, RAMP_Q='Fire_Hedge031_RAMP_Q'/
&RAMP ID='Fire_Hedge031_RAMP_Q', T=0.0, F=0.0/
&RAMP ID='Fire_Hedge031_RAMP_Q', T=120.3, F=0.0/
&RAMP ID='Fire_Hedge031_RAMP_Q', T=120.4, F=1.0/
&RAMP ID='Fire_Hedge031_RAMP_Q', T=140.4, F=1.0/
&RAMP ID='Fire_Hedge031_RAMP_Q', T=140.5, F=0.0/
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&RAMP ID='Fire_Tree1_RAMP_Q', T=71.9, F=0.0/
&RAMP ID='Fire_Tree1_RAMP_Q', T=72.0, F=1.0/
&RAMP ID='Fire_Tree1_RAMP_Q', T=117.0, F=1.0/
&RAMP ID='Fire_Tree1_RAMP_Q', T=117.1, F=0.0/
&SURF ID='Fire_Tree2', COLOR='RED', HRRPUA=3450.0, RAMP_Q='Fire_Tree2_RAMP_Q'/
&RAMP ID='Fire_Tree2_RAMP_Q', T=0.0, F=0.0/
&RAMP ID='Fire_Tree2_RAMP_Q', T=91.9, F=0.0/
&RAMP ID='Fire_Tree2_RAMP_Q', T=92.0, F=1.0/

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&RAMP ID='Fire_Tree3_RAMP_Q', T=104.4, F=1.0/  
&RAMP ID='Fire_Tree3_RAMP_Q', T=149.4, F=1.0/  
&RAMP ID='Fire_Tree3_RAMP_Q', T=149.5, F=0.0/  
&SURF ID='Fire_Tree3_1', COLOR='RED', HRRPUA=4000.0, RAMP_Q='Fire_Tree3_1_RAMP_Q'/  
&RAMP ID='Fire_Tree3_1_RAMP_Q', T=0.0, F=0.0/  
&RAMP ID='Fire_Tree3_1_RAMP_Q', T=108.3, F=0.0/  
&RAMP ID='Fire_Tree3_1_RAMP_Q', T=108.4, F=1.0/  
&RAMP ID='Fire_Tree3_1_RAMP_Q', T=153.4, F=1.0/  
&RAMP ID='Fire_Tree3_1_RAMP_Q', T=153.5, F=0.0/  
&VENT ID='Vent1', SURF_ID='Fire_Hedge1', XB=0.3,3.3,42.4,43.4,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=0.3,42.4,2.4/  
&VENT ID='Vent2', SURF_ID='Fire_Hedge2', XB=3.3,5.3,42.9,43.9,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=3.3,42.9,2.4/  
&VENT ID='Vent3', SURF_ID='Fire_Hedge3', XB=5.3,7.3,42.9,43.9,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=5.3,43.4,2.4/  
&VENT ID='Vent4', SURF_ID='Fire_Hedge4', XB=7.3,9.3,43.4,44.4,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=7.3,43.4,2.4/  
&VENT ID='Vent5', SURF_ID='Fire_Hedge5', XB=9.3,15.0,43.9,44.9,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=9.3,43.9,2.4/  
&VENT ID='Vent6', SURF_ID='Fire_Hedge6', XB=15.0,18.8,44.2,45.2,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=15.0,44.2,2.4/  
&VENT ID='Vent7', SURF_ID='Fire_Hedge7', XB=18.8,21.2,43.7,44.7,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=18.8,44.7,2.4/  
&VENT ID='Vent8', SURF_ID='Fire_Hedge8', XB=21.2,23.2,43.2,44.2,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=21.2,4.2,2.4/  
&VENT ID='Vent9', SURF_ID='Fire_Hedge9', XB=23.2,25.2,42.7,43.7,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=23.2,43.7,2.4/  
&VENT ID='Vent10', SURF_ID='Fire_Hedge10', XB=25.2,27.2,42.2,43.2,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=25.2,43.2,2.4/  
&VENT ID='Vent11', SURF_ID='Fire_Hedge11', XB=27.2,31.6,41.7,42.7,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=27.2,42.7,2.4/  
&VENT ID='Vent12', SURF_ID='Fire_Hedge12', XB=31.6,40.8,42.2,43.2,2.0,2.0, SPREAD_RATE=0.55,  
XYZ=31.6,42.2,2.0/  
&VENT ID='Vent13', SURF_ID='Fire_Hedge13', XB=40.8,49.8,42.2,43.2,1.6,1.6, SPREAD_RATE=0.55,  
XYZ=40.8,42.7,1.6/  
&VENT ID='Vent14', SURF_ID='Fire_Hedge14', XB=49.8,52.9,42.2,43.2,1.7,1.7, SPREAD_RATE=0.55,  
XYZ=49.8,42.7,1.7/  
&VENT ID='Vent15', SURF_ID='Fire_Hedge15', XB=52.9,55.9,42.7,43.7,1.6,1.6, SPREAD_RATE=0.55,  
XYZ=52.9,42.7,1.6/  
&VENT ID='Vent16', SURF_ID='Fire_Hedge16', XB=55.9,56.8,43.2,44.2,1.5,1.5, SPREAD_RATE=0.55,  
XYZ=55.9,43.2,1.5/  
&VENT ID='Vent17', SURF_ID='Fire_Hedge17', XB=56.8,58.1,43.7,44.7,1.4,1.4, SPREAD_RATE=0.55,  
XYZ=56.8,43.7,1.4/  
&VENT ID='Vent18', SURF_ID='Fire_Hedge18', XB=58.1,61.7,43.7,44.7,1.3,1.3, SPREAD_RATE=0.55,  
XYZ=58.1,44.2,1.3/  
&VENT ID='Vent01', SURF_ID='Fire_Hedge01', XB=0.3,1.3,40.4,42.4,2.4,2.4, SPREAD_RATE=0.55,  
XYZ=0.3,42.4,2.4/
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XYZ=1.3,40.4,2.4/
&VENT ID='Vent03', SURF_ID='Fire_Hedge03', XB=2.3,4.3,37.4,38.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=2.3,38.4,2.4/
&VENT ID='Vent04', SURF_ID='Fire_Hedge04', XB=4.3,6.3,36.4,37.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=4.3,37.4,2.4/
&VENT ID='Vent05', SURF_ID='Fire_Hedge05', XB=6.3,8.3,35.4,36.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=6.3,36.4,2.4/
&VENT ID='Vent06', SURF_ID='Fire_Hedge06', XB=8.3,10.3,34.4,35.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=8.3,35.4,2.4/
&VENT ID='Vent07', SURF_ID='Fire_Hedge07', XB=10.3,12.3,33.4,34.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=10.3,34.4,2.4/
&VENT ID='Vent08', SURF_ID='Fire_Hedge08', XB=12.3,14.3,32.4,33.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=13.3,33.4,2.4/
&VENT ID='Vent09', SURF_ID='Fire_Hedge09', XB=14.3,16.3,31.4,32.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=14.3,32.4,2.4/
&VENT ID='Vent010', SURF_ID='Fire_Hedge010', XB=16.3,18.3,30.4,31.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=16.3,31.4,2.4/
&VENT ID='Vent011', SURF_ID='Fire_Hedge011', XB=18.3,20.3,29.4,30.4,2.4,2.4, SPREAD_RATE=0.55,
XYZ=18.3,30.4,2.4/
&VENT ID='Vent012', SURF_ID='Fire_Hedge012', XB=20.3,22.3,28.9,29.9,2.4,2.4, SPREAD_RATE=0.55,
XYZ=20.3,29.9,2.4/
&VENT ID='Vent013', SURF_ID='Fire_Hedge013', XB=22.3,24.3,27.9,28.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=22.3,28.9,1.2/
&VENT ID='Vent014', SURF_ID='Fire_Hedge014', XB=24.3,26.3,26.9,27.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=24.3,27.9,1.2/
&VENT ID='Vent015', SURF_ID='Fire_Hedge015', XB=26.3,28.3,25.9,26.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=26.3,26.9,1.2/
&VENT ID='Vent016', SURF_ID='Fire_Hedge016', XB=28.3,30.3,24.9,25.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=28.3,25.9,1.2/
&VENT ID='Vent017', SURF_ID='Fire_Hedge017', XB=30.3,32.3,23.9,24.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=30.3,24.9,1.2/
&VENT ID='Vent018', SURF_ID='Fire_Hedge018', XB=32.3,34.3,22.9,23.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=32.3,23.9,1.2/
&VENT ID='Vent019', SURF_ID='Fire_Hedge019', XB=34.3,36.3,21.9,22.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=34.3,22.9,1.2/
&VENT ID='Vent020', SURF_ID='Fire_Hedge020', XB=36.3,38.3,20.9,21.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=36.3,21.9,1.2/
&VENT ID='Vent021', SURF_ID='Fire_Hedge021', XB=38.3,40.3,19.9,20.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=38.3,20.9,1.2/
&VENT ID='Vent022', SURF_ID='Fire_Hedge022', XB=40.3,42.3,18.9,19.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=40.3,19.9,1.2/
&VENT ID='Vent023', SURF_ID='Fire_Hedge023', XB=42.3,44.3,17.9,18.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=42.3,18.9,1.2/
&VENT ID='Vent024', SURF_ID='Fire_Hedge024', XB=44.3,46.3,16.9,17.9,1.2,1.2, SPREAD_RATE=0.55,
XYZ=44.3,17.9,1.2/
&VENT ID='Vent025', SURF_ID='Fire_Hedge025', XB=46.3,49.0,16.4,17.4,1.2,1.2, SPREAD_RATE=0.55,
XYZ=46.3,16.4,1.2/
&VENT ID='Vent026', SURF_ID='Fire_Hedge026', XB=49.0,50.6,17.4,18.4,1.2,1.2, SPREAD_RATE=0.55,
XYZ=49.0,17.4,1.2/
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XYZ=56.5,19.4,0.6/
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XYZ=59.2,19.4,0.3/
&VENT ID='Tree1', SURF_ID='Fire_Tree1', XB=35.6,40.2,23.0,28.0,1.2,1.2, SPREAD_RATE=0.55,
XYZ=35.6,23.0,1.2/
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XYZ=45.0,20.4,1.2/
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XYZ=50.6,19.4,1.0/
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#### Material and surface definition

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SPECIFIC_HEAT=0.46, CONDUCTIVITY=45.8, DENSITY=7850.0, EMISSIVITY=0.95/
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CONDUCTIVITY_RAMP='FIRE BRICK_CONDUCTIVITY_RAMP', DENSITY=750.0, EMISSIVITY=0.8/
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#### Geometry

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### Outputs

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&TAIL /
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## 4. Scenario 3: Swedish property

### 4.1. Scenario description

Scenario 3 consists of the property analysed for the Swedish case in deliverable 7.2 (Figure 3).

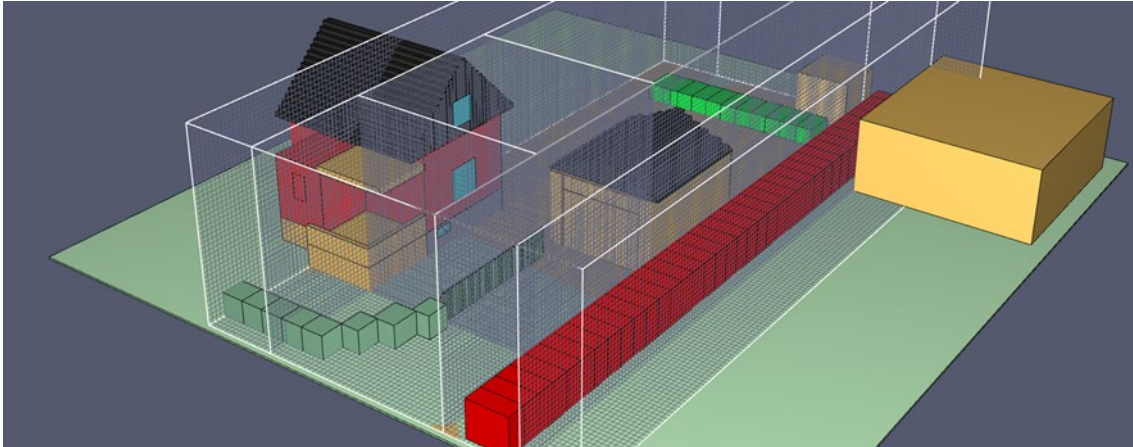


Figure 3: Scenario 3

The hedgerow is simulated as a solid obstacle, with 5 sides that have an assigned HRRPUA and HRR curve.

Temperatures are recorded by devices located on the windows, at the façade wall of the house to the left and right of the window, at the porch and the garage on the door and the wall facing the hedge. In addition, temperature devices are placed on the wooden fence between the house and the hedge (facing the hedge) as well as on the neighbouring house and the fuel pack behind the garage.

The simulation ran on a PC with 4 cores for about 24 hours for the coarse mesh and 4 days for the fine mesh. FDS version 6.7.5 was used.

### 4.2. FDS code

Simulation time and initial conditions

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&HEAD CHID='WUIviewScenario1_-_Full_modell'/
&TIME T_END=130.0/
&DUMP DT_RESTART=300.0, DT_SL3D=0.25/
&MISC TMPA=28.0/
&WIND L=1.0E6, Z_REF=10.0, SPEED=4.0, DIRECTION=0.0/
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Domain

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&MESH ID='MESH-a-c', IJK=100,12,22, XB=-25.0,0.0,17.578366,20.578366,4.5,10.0/
&MESH ID='MESH-a-d', IJK=28,12,6, XB=0.0,7.0,17.578366,20.578366,-0.5,1.0/
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&MESH ID='MESH-a-a-b-d', IJK=20,6,28, XB=-9.5,-4.5,11.078366,12.578366,3.0,10.0/
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&MESH ID='MESH-a-b', IJK=100,20,42, XB=-25.0,0.0,12.578366,17.578366,-0.5,10.0/
&MESH ID='MESH-b-a', IJK=24,96,168, XB=0.0,1.5,11.578366,17.578366,-0.5,10.0/
&MESH ID='MESH-b-b-a', IJK=96,12,168, XB=1.5,7.5,11.578366,12.328366,-0.5,10.0/
&MESH ID='MESH-b-b-b', IJK=24,18,42, XB=1.5,7.5,12.328366,16.828366,-0.5,10.0/
&MESH ID='MESH-b-b-c', IJK=96,12,168, XB=1.5,7.5,16.828366,17.578366,-0.5,10.0/
&MESH ID='MESH-b-c', IJK=24,96,168, XB=7.5,9.0,11.578366,17.578366,-0.5,10.0/
&MESH ID='MESH-c', IJK=24,24,42, XB=9.0,15.0,11.578366,17.578366,-0.5,10.0/
&MESH ID='MESH', IJK=60,100,42, XB=0.0,15.0,-13.421634,11.578366,-0.5,10.0/
```

Domain boundaries

```
&VENT ID='South', SURF_ID='OPEN', XB=15.0,15.0,-13.421634,28.578366,-0.421634,10.0,
COLOR='INVISIBLE'/
&VENT ID='East', SURF_ID='OPEN', XB=-25.0,15.0,28.578366,28.578366,-0.421634,10.0,
COLOR='INVISIBLE'/
&VENT ID='North', SURF_ID='OPEN', XB=-25.0,-25.0,-13.421634,28.578366,-0.421634,10.0,
COLOR='INVISIBLE'/
&VENT ID='West', SURF_ID='OPEN', XB=-25.0,15.0,-13.421634,-13.421634,-0.421634,10.0,
COLOR='INVISIBLE'/
&VENT ID='Sky', SURF_ID='OPEN', XB=-25.0,15.0,-13.421634,28.578366,10.0,10.0, COLOR='INVISIBLE'/
```

Fire inputs

```
&SPEC ID='CARBON DIOXIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='OXYGEN', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='WATER VAPOR', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='NITROGEN', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='HYDROGEN CYANIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='FORMALDEHYDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='SOOT', LUMPED_COMPONENT_ONLY=.TRUE., FORMULA=C/
&SPEC ID='CARBON MONOXIDE', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='ACETIC ACID', FORMULA='C2.H4.O2.', LUMPED_COMPONENT_ONLY=.TRUE./
&SPEC ID='COMPOSED CELLULOSE', FORMULA='C1.0H1.3470O0.6736N0.0006', SPECIFIC_HEAT=1.0/
&SPEC ID='AIR01', BACKGROUND=.TRUE.,SPEC_ID(1)='NITROGEN', SPEC_ID(2)='OXYGEN',
VOLUME_FRACTION(1)=0.376, VOLUME_FRACTION(2)=0.1/
&SPEC ID='PRODUCTS02', SPEC_ID(1)='HYDROGEN CYANIDE', SPEC_ID(2)='ACETIC ACID',
SPEC_ID(3)='FORMALDEHYDE', SPEC_ID(4)='WATER VAPOR', SPEC_ID(5)='SOOT',
SPEC_ID(6)='NITROGEN', SPEC_ID(7)='CARBON MONOXIDE', SPEC_ID(8)='CARBON DIOXIDE',
VOLUME_FRACTION(1)=6.0E-4, VOLUME_FRACTION(2)=1.1E-3, VOLUME_FRACTION(3)=1.6E-3,
VOLUME_FRACTION(4)=0.6694, VOLUME_FRACTION(5)=0.0369, VOLUME_FRACTION(6)=3.420472,
VOLUME_FRACTION(7)=0.0976, VOLUME_FRACTION(8)=0.8611/

&REAC ID='Reaction2', HEAT_OF_COMBUSTION=1.8E4, FUEL='COMPOSED CELLULOSE',
SPEC_ID_NU='AIR01','COMPOSED CELLULOSE','PRODUCTS02', NU=-9.097,-1.0,1.0/
```

```

&SURF ID='Fire_Hedge', COLOR='RED',TEXTURE_MAP='psm_grass_big.jpg', TEXTURE_WIDTH=0.762,
TEXTURE_HEIGHT=0.509016, HRRPUA=900.0, RAMP_Q='Fire_Hedge_RAMP_Q'/
&RAMP ID='Fire_Hedge_RAMP_Q', T=0.0, F=0.0/
&RAMP ID='Fire_Hedge_RAMP_Q', T=1.0, F=0.05/
&RAMP ID='Fire_Hedge_RAMP_Q', T=2.0, F=0.1/
&RAMP ID='Fire_Hedge_RAMP_Q', T=3.0, F=0.15/
&RAMP ID='Fire_Hedge_RAMP_Q', T=4.0, F=0.2/
&RAMP ID='Fire_Hedge_RAMP_Q', T=5.0, F=0.25/
&RAMP ID='Fire_Hedge_RAMP_Q', T=6.0, F=0.3/
&RAMP ID='Fire_Hedge_RAMP_Q', T=7.0, F=0.35/
&RAMP ID='Fire_Hedge_RAMP_Q', T=8.0, F=0.4/
&RAMP ID='Fire_Hedge_RAMP_Q', T=9.0, F=0.45/
&RAMP ID='Fire_Hedge_RAMP_Q', T=10.0, F=0.5/
&RAMP ID='Fire_Hedge_RAMP_Q', T=11.0, F=0.55/
&RAMP ID='Fire_Hedge_RAMP_Q', T=12.0, F=0.6/
&RAMP ID='Fire_Hedge_RAMP_Q', T=13.0, F=0.65/
&RAMP ID='Fire_Hedge_RAMP_Q', T=14.0, F=0.7/
&RAMP ID='Fire_Hedge_RAMP_Q', T=15.0, F=0.75/
&RAMP ID='Fire_Hedge_RAMP_Q', T=16.0, F=0.8/
&RAMP ID='Fire_Hedge_RAMP_Q', T=17.0, F=0.85/
&RAMP ID='Fire_Hedge_RAMP_Q', T=18.0, F=0.9/
&RAMP ID='Fire_Hedge_RAMP_Q', T=19.0, F=0.95/
&RAMP ID='Fire_Hedge_RAMP_Q', T=20.0, F=1.0/
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&RAMP ID='Fire_Hedge_RAMP_Q', T=22.0, F=0.971429/
&RAMP ID='Fire_Hedge_RAMP_Q', T=23.0, F=0.957143/
&RAMP ID='Fire_Hedge_RAMP_Q', T=24.0, F=0.942857/
&RAMP ID='Fire_Hedge_RAMP_Q', T=25.0, F=0.928571/
&RAMP ID='Fire_Hedge_RAMP_Q', T=26.0, F=0.914286/
&RAMP ID='Fire_Hedge_RAMP_Q', T=27.0, F=0.9/
&RAMP ID='Fire_Hedge_RAMP_Q', T=28.0, F=0.885714/
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&RAMP ID='Fire_Hedge_RAMP_Q', T=30.0, F=0.857143/
&RAMP ID='Fire_Hedge_RAMP_Q', T=31.0, F=0.842857/
&RAMP ID='Fire_Hedge_RAMP_Q', T=32.0, F=0.828571/
&RAMP ID='Fire_Hedge_RAMP_Q', T=33.0, F=0.814286/
&RAMP ID='Fire_Hedge_RAMP_Q', T=34.0, F=0.8/
&RAMP ID='Fire_Hedge_RAMP_Q', T=35.0, F=0.785714/
&RAMP ID='Fire_Hedge_RAMP_Q', T=36.0, F=0.771429/
&RAMP ID='Fire_Hedge_RAMP_Q', T=37.0, F=0.757143/
&RAMP ID='Fire_Hedge_RAMP_Q', T=38.0, F=0.742857/
&RAMP ID='Fire_Hedge_RAMP_Q', T=39.0, F=0.728571/
&RAMP ID='Fire_Hedge_RAMP_Q', T=40.0, F=0.714286/
&RAMP ID='Fire_Hedge_RAMP_Q', T=41.0, F=0.7/
&RAMP ID='Fire_Hedge_RAMP_Q', T=42.0, F=0.685714/
&RAMP ID='Fire_Hedge_RAMP_Q', T=43.0, F=0.671429/
&RAMP ID='Fire_Hedge_RAMP_Q', T=44.0, F=0.657143/
&RAMP ID='Fire_Hedge_RAMP_Q', T=45.0, F=0.642857/
&RAMP ID='Fire_Hedge_RAMP_Q', T=46.0, F=0.628571/
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&RAMP ID='Fire_Hedge_RAMP_Q', T=49.0, F=0.585714/
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&RAMP ID='Fire_Hedge_RAMP_Q', T=53.0, F=0.528571/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=63.0, F=0.385714/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=65.0, F=0.357143/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=68.0, F=0.314286/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=70.0, F=0.285714/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=71.0, F=0.271429/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=72.0, F=0.257143/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=74.0, F=0.228571/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=75.0, F=0.214286/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=76.0, F=0.2/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=77.0, F=0.185714/  
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&RAMP ID='Fire_Hedge_RAMP_Q', T=85.0, F=0.071429/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=86.0, F=0.057143/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=87.0, F=0.042857/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=88.0, F=0.028571/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=89.0, F=0.014286/  
&RAMP ID='Fire_Hedge_RAMP_Q', T=90.0, F=0.0/  
&SURF ID='LayeredFireHedge', RGB=146,202,166, HRRPUA=500.0, IGNITION_TEMPERATURE=300.0,  
BACKING='VOID', MATL_ID(1,1)='YELLOWPINE', MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=1.0/  
&SURF ID='LayeredFireFence', RGB=146,202,166, HRRPUA=500.0, IGNITION_TEMPERATURE=300.0,  
BACKING='VOID', MATL_ID(1,1)='YELLOWPINE', MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=1.0/  
&SURF ID='SmallHedge', RGB=146,202,166, TEXTURE_MAP='psm_grass_big.jpg',  
TEXTURE_WIDTH=0.762, TEXTURE_HEIGHT=0.509016, HRRPUA=700.0,  
RAMP_Q='SmallHedge_RAMP_Q', IGNITION_TEMPERATURE=300.0, BACKING='VOID'/  
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&RAMP ID='SmallHedge_RAMP_Q', T=20.0, F=1.0/  
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Material and surface definition

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&MATL ID='YELLOWPINE', FYI='Quintiere, Fire Behavior - NIST NRC Validation', SPECIFIC_HEAT=2.85,
CONDUCTIVITY=0.14, DENSITY=640.0, HEAT_OF_COMBUSTION=1.0E4/
&MATL ID='Glass', SPECIFIC_HEAT=0.82, CONDUCTIVITY=0.95, DENSITY=2500.0/
&MATL ID='STEEL', FYI='Drysedale, Intro to Fire Dynamics - ATF NIST Multi-Floor Validation',
SPECIFIC_HEAT=0.46, CONDUCTIVITY=45.8, DENSITY=7850.0, EMISSIVITY=0.95/
&SURF ID='Glass', RGB=51,255,255, BACKING='VOID', MATL_ID(1,1)='Glass',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=3.0E-3/
&SURF ID='Doors', COLOR='GRAY 60', BACKING='VOID', MATL_ID(1,1)='STEEL',
MATL_MASS_FRACTION(1,1)=1.0, THICKNESS(1)=0.1/
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Geometry

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&OBST ID='Obstruction', XB=-9.3,-4.8,5.378366,12.578366,-0.321634,2.878366, SURF_ID='INERT'/
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SURF_ID='INERT'/
&OBST ID='GarageLeftWallInert', XB=-4.8,-4.0,5.378366,12.578366,-0.321634,3.678366,
SURF_ID='INERT'/
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&OBST ID='Obstruction', XB=-4.0,-3.9,7.578366,8.578366,-0.321634,1.678366, SURF_ID='INERT'/
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SURF_ID='INERT'/
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SURF_ID='INERT'/
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&OBST ID='Obstruction', XB=-4.625,-4.5,14.375,14.5,-0.321634,1.23, SURF_ID='LayeredFireFence'/
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&OBST ID='39', XB=-13.25,-11.0,-10.921634,-9.921634,-0.25,1.75, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-38'/
&OBST ID='40', XB=-13.25,-11.0,-11.921634,-10.921634,-0.25,1.75, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-39'/
&OBST ID='41', XB=-13.25,-11.0,-12.921634,-11.921634,-0.25,1.75, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-40'/
&OBST ID='42', XB=-13.25,-11.0,-13.421634,-12.921634,-0.25,1.75, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-41'/
&OBST ID='S1', XB=-9.5,-8.75,-7.421634,-7.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-34'/
&OBST ID='S1', XB=-9.5,-8.5,-7.171634,-5.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-34'/
&OBST ID='S1', XB=-9.0,-8.75,-5.421634,-5.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-34'/
&OBST ID='S1', XB=-9.75,-9.5,-5.421634,-5.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',
DEVC_ID='TIMER->OUT-34'/

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&OBST ID='S2', XB=-8.75,-7.75,-5.421634,-5.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-36'/  
&OBST ID='S2', XB=-8.5,-7.5,-7.171634,-5.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-36'/  
&OBST ID='S3', XB=-7.5,-6.75,-7.171634,-6.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-38'/  
&OBST ID='S3', XB=-7.5,-6.5,-6.921634,-5.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-38'/  
&OBST ID='S3', XB=-7.0,-6.75,-5.171634,-4.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-38'/  
&OBST ID='S3', XB=-7.75,-7.5,-5.171634,-5.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-38'/  
&OBST ID='S4', XB=-6.75,-5.75,-5.171634,-4.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-40'/  
&OBST ID='S4', XB=-6.5,-5.5,-6.921634,-5.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-40'/  
&OBST ID='S5', XB=-5.5,-5.0,-6.921634,-6.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-42'/  
&OBST ID='S5', XB=-5.5,-4.5,-6.671634,-4.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-42'/  
&OBST ID='S5', XB=-5.25,-4.75,-4.921634,-4.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-42'/  
&OBST ID='S5', XB=-5.75,-5.5,-4.921634,-4.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='Fire_Hedge',  
DEVC_ID='TIMER->OUT-42'/  
&OBST ID='S6', XB=-4.75,-3.75,-4.921634,-4.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-43'/  
&OBST ID='S6', XB=-4.5,-3.5,-6.671634,-4.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-43'/  
&OBST ID='S7', XB=-3.5,-3.0,-6.671634,-6.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-44'/  
&OBST ID='S7', XB=-3.5,-2.5,-6.421634,-4.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-44'/  
&OBST ID='S7', XB=-3.25,-2.75,-4.671634,-4.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-44'/  
&OBST ID='S7', XB=-3.75,-3.5,-4.671634,-4.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-44'/  
&OBST ID='S8', XB=-2.75,-1.75,-4.671634,-4.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-45'/  
&OBST ID='S8', XB=-2.5,-1.5,-6.421634,-4.671634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-45'/  
&OBST ID='S9', XB=-1.5,-1.25,-6.421634,-6.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-46'/  
&OBST ID='S9', XB=-1.5,-0.5,-6.171634,-4.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-46'/  
&OBST ID='S9', XB=-1.25,-0.75,-4.421634,-4.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-46'/  
&OBST ID='S9', XB=-1.75,-1.5,-4.421634,-4.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-46'/  
&OBST ID='S10', XB=-0.75,0.0,-4.421634,-4.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-47'/  
&OBST ID='S10', XB=-0.5,0.0,-6.171634,-4.421634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',  
DEVC_ID='TIMER->OUT-47'/
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&OBST ID='S10', XB=0.0,0.5,-6.171634,-4.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',
DEVC_ID='TIMER->OUT-47'/
&OBST ID='S11', XB=0.5,0.75,-6.171634,-5.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',
DEVC_ID='TIMER->OUT-48'/
&OBST ID='S11', XB=0.5,1.25,-4.171634,-3.921634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',
DEVC_ID='TIMER->OUT-48'/
&OBST ID='S11', XB=0.5,1.5,-5.921634,-4.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',
DEVC_ID='TIMER->OUT-48'/
&OBST ID='S11', XB=0.25,0.5,-4.171634,-4.171634,-0.25,0.25, RGB=0,255,51, SURF_ID='INERT',
DEVC_ID='TIMER->OUT-48'/
&VENT ID='WindowConcreteEast1', SURF_ID='Glass',
XB=2.0,3.0,11.578366,11.578366,0.328366,0.828366/
&VENT ID='WindowConcreteEast2', SURF_ID='Glass',
XB=6.5,7.5,11.578366,11.578366,0.328366,0.828366/
&VENT ID='WindowWest', SURF_ID='Glass', XB=6.0,8.0,11.578366,11.578366,1.778366,3.578366/
&VENT ID='WindowLowSouth', SURF_ID='Glass', XB=9.0,9.0,13.678366,15.478366,1.778366,3.578366/
&VENT ID='WindowEast', SURF_ID='Glass', XB=5.1,5.9,20.578366,20.578366,2.378366,3.778366/
&VENT ID='WindowHighSouth', SURF_ID='Glass', XB=9.0,9.0,13.878366,15.278366,5.778366,7.178366/
&VENT ID='WindowPorchEast', SURF_ID='Glass',
XB=2.247966,3.647966,17.578366,17.578366,2.178366,3.578366/
&VENT ID='WindowHighNorth', SURF_ID='Glass', XB=0.0,0.0,13.878366,15.278366,5.778366,7.178366/
&VENT ID='WindowLowNorth', SURF_ID='Glass', XB=0.0,0.0,13.678366,15.478366,1.778366,3.578366/
&VENT ID='WindowConcreteNorth', SURF_ID='Glass',
XB=0.0,0.0,15.778366,16.778366,0.328366,0.828366, IOR=-1/
&VENT ID='GarageDoor', SURF_ID='Doors', XB=-9.3,-4.8,12.578366,12.578366,-0.321634,2.878366/
&VENT ID='MainDoor', SURF_ID='Doors', XB=4.0,4.0,18.378366,19.578366,0.978366,2.978366/
&DEVC ID='TIMER->OUT', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=2.5/
&DEVC ID='TIMER->OUT-2', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=5.0/
&DEVC ID='TIMER->OUT-3', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=7.5/
&DEVC ID='TIMER->OUT-4', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=10.0/
&DEVC ID='TIMER->OUT-5', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=12.5/
&DEVC ID='TIMER->OUT-6', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=15.0/
&DEVC ID='TIMER->OUT-7', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=17.5/
&DEVC ID='TIMER->OUT-8', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=20.0/
&DEVC ID='TIMER->OUT-9', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=22.5/
&DEVC ID='TIMER->OUT-10', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=25.0/
&DEVC ID='TIMER->OUT-11', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=27.5/
&DEVC ID='TIMER->OUT-12', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=30.0/
&DEVC ID='TIMER->OUT-13', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=32.5/
&DEVC ID='TIMER->OUT-14', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=35.0/
&DEVC ID='TIMER->OUT-15', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=37.5/
&DEVC ID='TIMER->OUT-16', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=40.0/
&DEVC ID='TIMER->OUT-17', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=42.5/
&DEVC ID='TIMER->OUT-18', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=45.0/
&DEVC ID='TIMER->OUT-19', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=47.5/
&DEVC ID='TIMER->OUT-20', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=50.0/
&DEVC ID='TIMER->OUT-21', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=52.5/
&DEVC ID='TIMER->OUT-22', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=55.0/
&DEVC ID='TIMER->OUT-23', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=57.5/
&DEVC ID='TIMER->OUT-24', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=60.0/
&DEVC ID='TIMER->OUT-25', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=62.5/
&DEVC ID='TIMER->OUT-26', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=65.0/
&DEVC ID='TIMER->OUT-27', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=67.5/
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&DEVC ID='TIMER->OUT-28', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=70.0/  
&DEVC ID='TIMER->OUT-29', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=72.5/  
&DEVC ID='TIMER->OUT-30', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=75.0/  
&DEVC ID='TIMER->OUT-31', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=77.5/  
&DEVC ID='TIMER->OUT-32', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=80.0/  
&DEVC ID='TIMER->OUT-33', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=82.5/  
&DEVC ID='TIMER->OUT-34', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=85.0/  
&DEVC ID='TIMER->OUT-35', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=87.5/  
&DEVC ID='TIMER->OUT-36', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=90.0/  
&DEVC ID='TIMER->OUT-37', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=92.5/  
&DEVC ID='TIMER->OUT-38', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=95.0/  
&DEVC ID='TIMER->OUT-39', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=97.5/  
&DEVC ID='TIMER->OUT-40', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=100.0/  
&DEVC ID='TIMER->OUT-41', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=102.5/  
&DEVC ID='TIMER->OUT-42', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=105.0/  
&DEVC ID='TIMER->OUT-43', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=110.0/  
&DEVC ID='TIMER->OUT-44', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=115.0/  
&DEVC ID='TIMER->OUT-45', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=120.0/  
&DEVC ID='TIMER->OUT-46', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=125.0/  
&DEVC ID='TIMER->OUT-47', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=130.0/  
&DEVC ID='TIMER->OUT-48', QUANTITY='TIME', XYZ=-25.0,17.578366,-0.5, SETPOINT=135.0/
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#### Outputs

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&DEVC ID='Time', QUANTITY='TIME', XYZ=0.0,0.0,0.0/  
&DEVC ID='AdiabaticSsrfaceTemperature', QUANTITY='ADIABATIC SURFACE TEMPERATURE',  
XYZ=0.0,17.0,2.5, IOR=-1/  
&DEVC ID='Incident Heat flux', QUANTITY='INCIDENT HEAT FLUX', XYZ=0.0,16.5,2.5, IOR=-1/  
&DEVC ID='TCWall', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=0.0,16.0,2.5, IOR=-1/  
&DEVC ID='TCFence', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=0.0,19.0,2.0, IOR=-1/  
&DEVC ID='TCWindowCenter', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=0.0,14.5,2.5, IOR=-  
1/  
&DEVC ID='TCWindowCorner', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=0.0,13.7,2.5, IOR=-  
1/  
&DEVC ID='Externalbuilding1', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=-15.0,-  
1.421634,2.0, IOR=2/  
&DEVC ID='Externalbuilding2', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=-14.0,-6.0,2.0,  
IOR=1/  
&DEVC ID='GarageRight', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=-10.0,10.0,2.0, IOR=-1/  
&DEVC ID='WoodPileBack1', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=-  
4.118711,3.0,0.227186, IOR=-2/  
&DEVC ID='WoodPileRight1', QUANTITY='ADIABATIC SURFACE TEMPERATURE', XYZ=-  
4.7,3.502171,0.251892, IOR=-1/  
&SLCF QUANTITY='TEMPERATURE', PBY=14.0/  
&SLCF QUANTITY='TEMPERATURE', PBX=-12.0/  
&SLCF QUANTITY='TEMPERATURE', PBY=10.0/
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&TAIL /
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