

## Envisioneer Custom Database Creation

Using a custom Envisioneer database allows you to apply your real world products to each of your Envisioneer designs and estimates. We will create for you an openly configurable database of your products in Envisioneer so that when you insert a wall, roof or any other type of element in Envisioneer, the object will be built from your actual product descriptions and part numbers. Because your specific descriptions and part numbers are being used when inserting Envisioneer elements, the take off information is familiar and can be seamlessly integrated back into your Point of Sale or Accounting software programs with the click of a button. Our intention is to create a database that is ready for you to use right away but allow the flexibility to modify or build upon the content in any way you see fit. The following will give you a better idea as to what to expect and help us understand which products you use the majority of the time and how you are currently calculating those products.

### **CONTENTS**

<b>GETTING STARTED .....</b>	<b>2</b>
YOUR LIST OF PRODUCTS .....	2
WHAT THAT LIST BECOMES .....	2
<b>PRODUCTS CREATED AS ENVISIONEER ELEMENTS .....</b>	<b>3</b>
MEMBERS .....	3
COLUMNS .....	4
CORNER DETAILS .....	4
DOORS .....	5
TRIM AND MOLDINGS .....	5
PARTS FOR USE IN ASSEMBLIES .....	6
<b>PRODUCT DETAILS .....</b>	<b>7</b>
FLOOR DETAIL .....	7
EXTERIOR WALL FINISHES.....	8
INTERIOR FINISHES .....	9
ROOF DETAIL .....	10
OTHER DETAILS .....	11

## Getting Started

### Your list of products

What we will need to get started is your list of products. Most Point of Sale packages allow an export of your data into a csv or txt file format. Specifically, we will need a SKU or Product Number, Product Description, Units the item is sold in (Each, Bag, LF, etc.) and a Product Category we can use for sorting.

Your list should look something like:

Product Code	Description	Product Group	Stock UOM
H281751	USG EASY SAND 210 18LB	Drywall Compounds	EA
FPL41058	4'X10'-5/8" FIRE RATED DRYWALL	Drywall Specialty	EA
FPL41212	4X12-1/2 FIRE RATED DRYWALL	Drywall Specialty	EA
FPL41258	4'X12'-5/8" FIRE RATED DRYWALL	Drywall Specialty	EA
S21020	2X10-20' #2&BTR PREMIUM W SPF	Spf	EA
S21022	2X10-22' #2&BTR PREMIUM SPF/HF	Spf	EA
S21024	2X10-24' #2&BTR PREMIUM SPF/HF	Spf	EA
S21026	2X10-26' #2&BTR PREMIUM SPF/HF	Spf	EA
S248P	2X4 - 8' PREMIUM SPF GRADE	Spf	EA
S249	2X4X104-5/8 SPF PRE CUT STUD	Spf	EA
S249P	2X4X104-5/8 PREMIUM STUD	Spf	EA
S2610P	2X6 - 10' PREMIUM SPF GRADE	Spf	EA
S2612P	2X6 - 12' PREMIUM SPF GRADE	Spf	EA
S2614P	2X6 - 14' PREMIUM SPF GRADE	Spf	EA
S2616P	2X6 - 16' PREMIUM SPF GRADE	Spf	EA
S2618	2X6-18' #2 & BETTER SPF	Spf	EA
S2620	2X6-20' #2 & BETTER SPF	Spf	EA
S2622	2X6-22' #2&BTR PREMIUM W SPF/HF	Spf	EA
S2624	2X6-24' #2&BTR PREMIUM W SPF/HF	Spf	EA
S2626	2X6-26' #2&BTR PREMIUM W SPF/HF	Spf	EA
...			

### What that list becomes

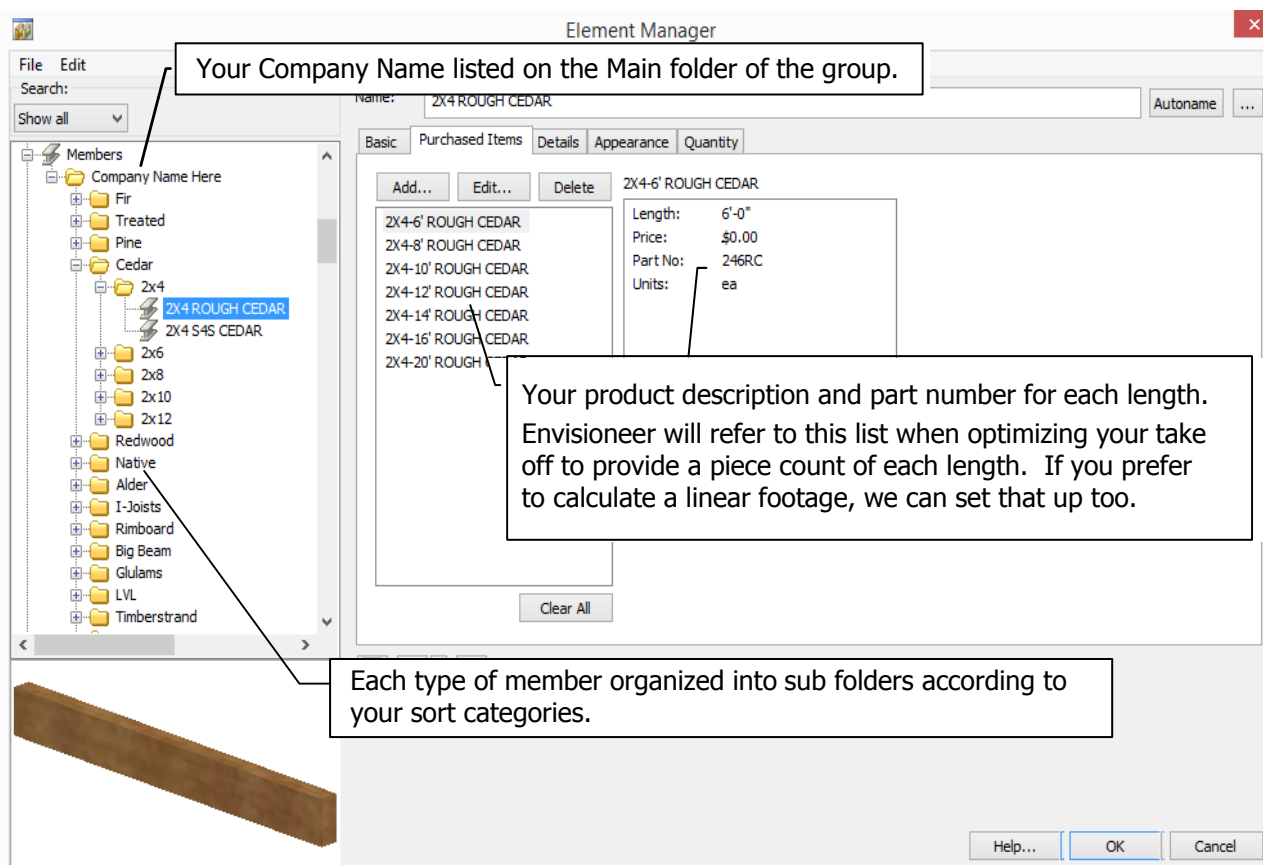
We will take the provided list and recreate the items in the Envisioneer Catalog. Some product lines will become actual items with size and shape in Envisioneer like Members, Columns or Windows. The remaining product lines will be loaded in as Parts so that they can be associated with other elements. As an example, 4x8-7/16 OSB sheets can be associated with walls to calculate sheathing. We will then take your most commonly used products (Defined by you at the end of this document) and associate them with the appropriate items.

Don't worry if you don't have or do not wish to include some of the types of elements mentioned below in your estimates, we'll leave a selection of generic items in your database to keep you covered.

## Products created as Envisioneer Elements

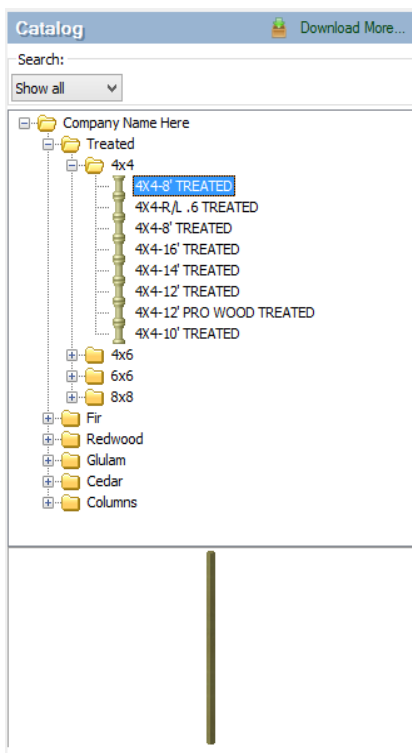
### Members

In Envisioneer, a Member is an element that has a various amount of purchased lengths and can be considered 'Lumber' for our purposes. Each one of those lengths has a specific description and part number and is what Envisioneer references to create an optimized material list. Members are used in all of the various Framing Configurations throughout the Envisioneer Database but can also be inserted manually to define the layout of beams, bracing or to enhance other framing configurations like floor blocking or collar ties.



Members are very important as they are associated with Walls, Floors, Ceilings, Roofs and Surfaces through various framing configurations. We can limit how each length is applied by modifying the Usage rules. For instance, we'll set precut lengths to only be used for studs as it is unlikely you would want those premium pieces used for plates or joists.

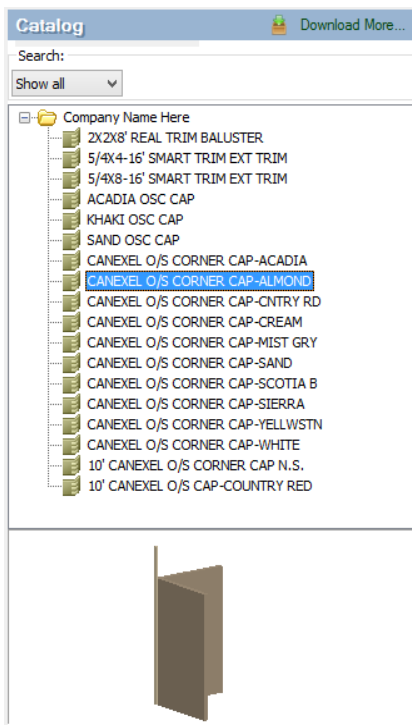
## Columns



Columns are vertical posts that are either of fixed length or dependant on the height of your current building location. Treated 4x4s, steel jack posts or a porch pillar are examples of the types of products that we'll load into your Envisioneer database for use in your designs and estimates. Columns are either inserted into position with a click or used in a configuration of the Deck tool.

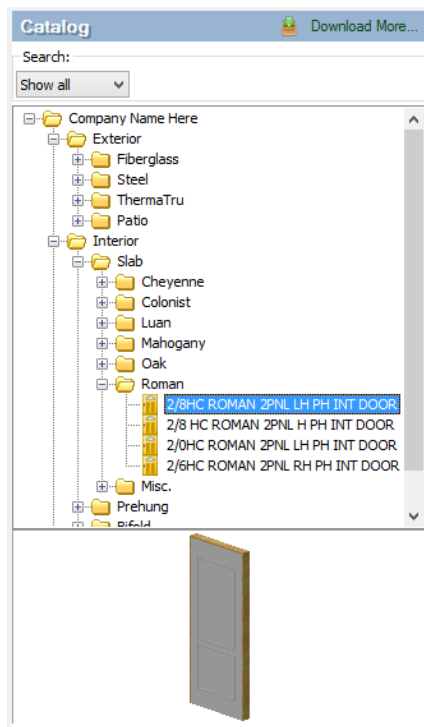
Just like Members, we'll create the Columns to match your product descriptions, product numbers or SKUs and sort category.

## Corner Details



Corner Details are the trim pieces applied to the inside and outside corners of exterior walls. Commonly we would create siding trim pieces in this section as inside and outside corner caps, but you may have other packaged items like custom quoins that we can add into the database.

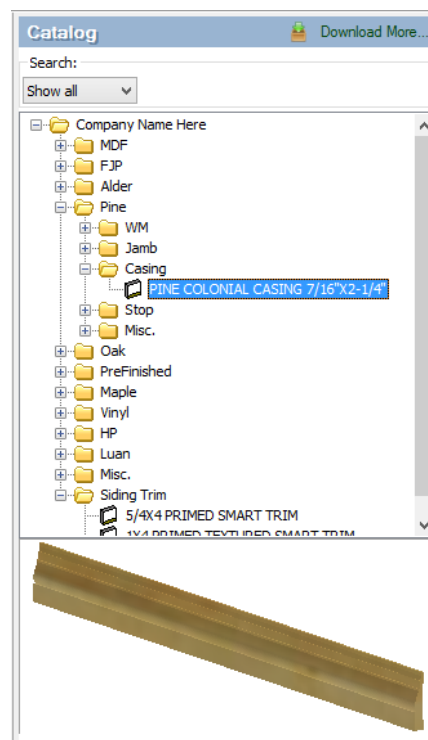
## Doors



Doors are loaded in and given a rough opening size in order to calculate the wall opening. They can have a specific swing type, different lite configurations and can have assemblies attached to them to count other items like hardware or jamb sets. Doors can only be placed into a wall and by doing so will automatically create an opening in that wall and change the way that wall is framed by building a head sill configuration.

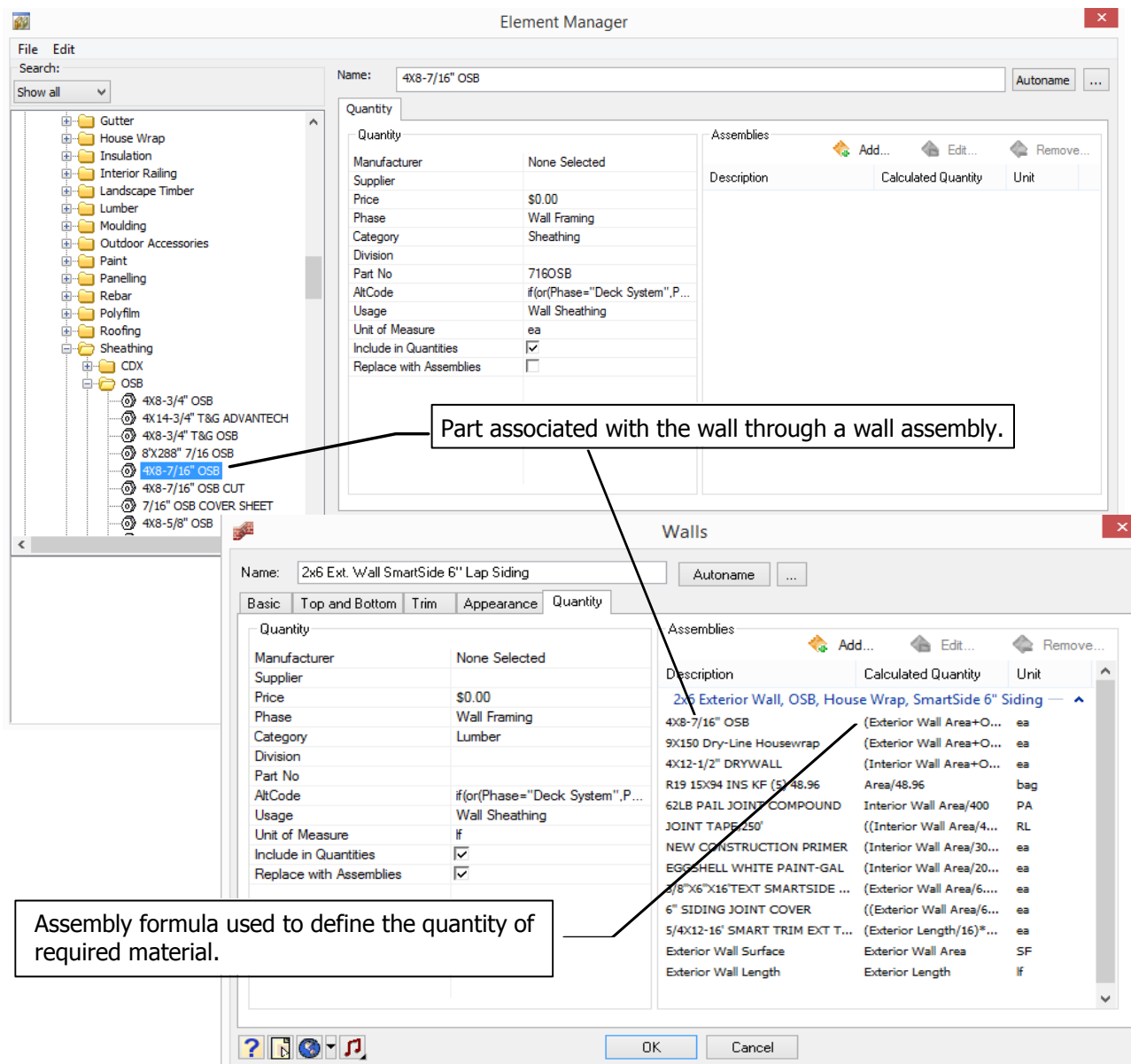
## Trim and Moldings

Trim pieces can be associated with walls so that when a wall is inserted or an opening is placed into that wall, trim is automatically considered as well. Most types of trim such as crown molding, chair rail, casing, baseboard, sills, or custom pieces like wainscot paneling can all be created and associated with walls. The pieces can either be calculated based on purchased lengths like members or we can produce a lineal footage. Most of these objects will also be created as members for manual insertion.



## Parts for use in Assemblies

Parts are items that do not have geometry and are not inserted into the drawing area on their own but rather are associated with other elements through assemblies so that they are included in the produced material lists. As an example, a wall can have many parts associated with it and by inserting that wall into the Envisioneer drawing area the length, area and volume of that wall are dynamically measured (plus a few other helpful variables). The parts reference those dynamic measurements to determine the required quantity of each defined by the assembly formula.



**Element Manager**

Name: 4x8-7/16" OSB

Quantity

Quantity	Manufacturer	Supplier	Price	Phase	Category	Division	Part No	AltCode	Usage	Unit of Measure	Include in Quantities	Replace with Assemblies
	None Selected		\$0.00	Wall Framing	Sheathing		716OSB	if(or(Phase="Deck System",P...	Wall Sheathing	ea	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Assemblies

Description	Calculated Quantity	Unit
2x6 Exterior Wall, OSB, House Wrap, SmartSide 6" Siding		

**Walls**

Name: 2x6 Ext. Wall SmartSide 6" Lap Siding

Basic | Top and Bottom | Trim | Appearance | Quantity

Quantity

Quantity	Manufacturer	Supplier	Price	Phase	Category	Division	Part No	AltCode	Usage	Unit of Measure	Include in Quantities	Replace with Assemblies
	None Selected		\$0.00	Wall Framing	Lumber			if(or(Phase="Deck System",P...	Wall Sheathing	lf	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Assemblies

Description	Calculated Quantity	Unit
2x6 Exterior Wall, OSB, House Wrap, SmartSide 6" Siding		
4x8-7/16" OSB	(Exterior Wall Area+O...	ea
9X150 Dry-Line Housewrap	(Exterior Wall Area+O...	ea
4X12-1/2" DRYWALL	(Interior Wall Area+O...	ea
R19 15X94 INS KF (5) 48.96	Area/48.96	bag
62LB PAUL JOINT COMPOUND	Interior Wall Area/400	PA
JOINT TAPE 250'	((Interior Wall Area/4...	RL
NEW CONSTRUCTION PRIMER	(Interior Wall Area/30...	ea
EGGSHELL WHITE PAINT-GAL	(Interior Wall Area/20...	ea
3/8"X6"X16"TEXT SMARTSIDE ...	(Exterior Wall Area/6...	ea
6" SIDING JOINT COVER	((Exterior Wall Area/6...	ea
5/4X12-16" SMART TRIM EXT T...	(Exterior Length/16)*...	ea
Exterior Wall Surface	Exterior Wall Area	SF
Exterior Wall Length	Exterior Length	lf

Assembly formula used to define the quantity of required material.

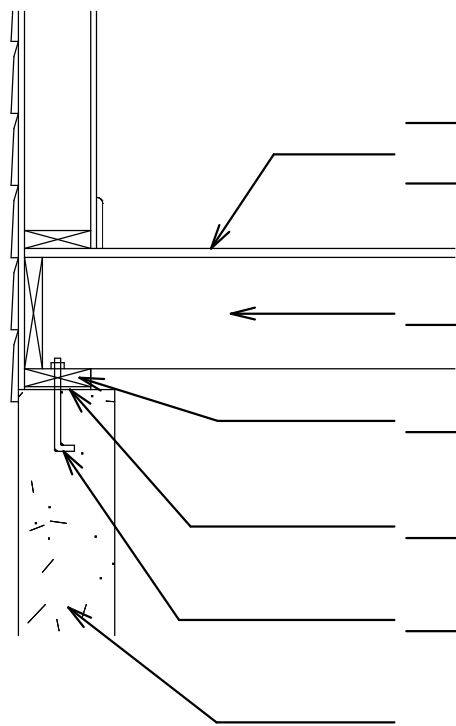
Part associated with the wall through a wall assembly.

## Product Details

Help us define which products you are using and how you are currently calculating them by completing the following diagrams. If you currently do not consider some of the items, just leave them blank but please provide as much information as possible.

Company Name: \_\_\_\_\_

### FLOOR DETAIL

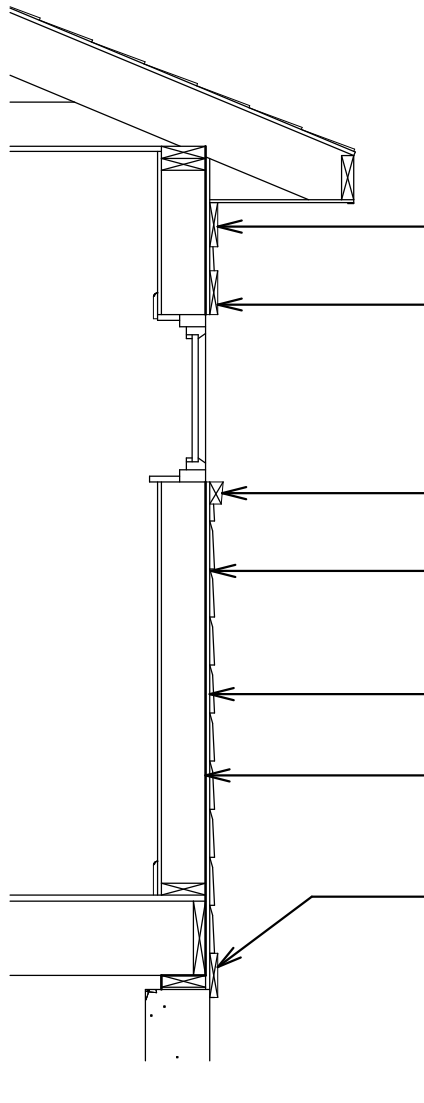


_____	FLOOR SHEATHING SKU	_____	WASTE FACTOR
_____	ADHESIVE SKU	_____	# SHEETS/TUBE
_____	FLOOR JOIST SPECIES & GRADE		
_____	SILL PLATE SPECIES & GRADE PREFERRED LENGTH(S): _____		
_____	SILL SEAL SKU	_____	WASTE FACTOR
_____	ANCHOR BOLT SKU	_____	SPACING
_____	FOUNDATION WALL THICKNESS POURED CONCRETE OR BLOCK: _____		

ADDITIONAL ITEMS THAT MAY APPLY:  
(INSULATION, FASTENERS, ETC.)

Company Name: \_\_\_\_\_

## EXTERIOR WALL FINISHES

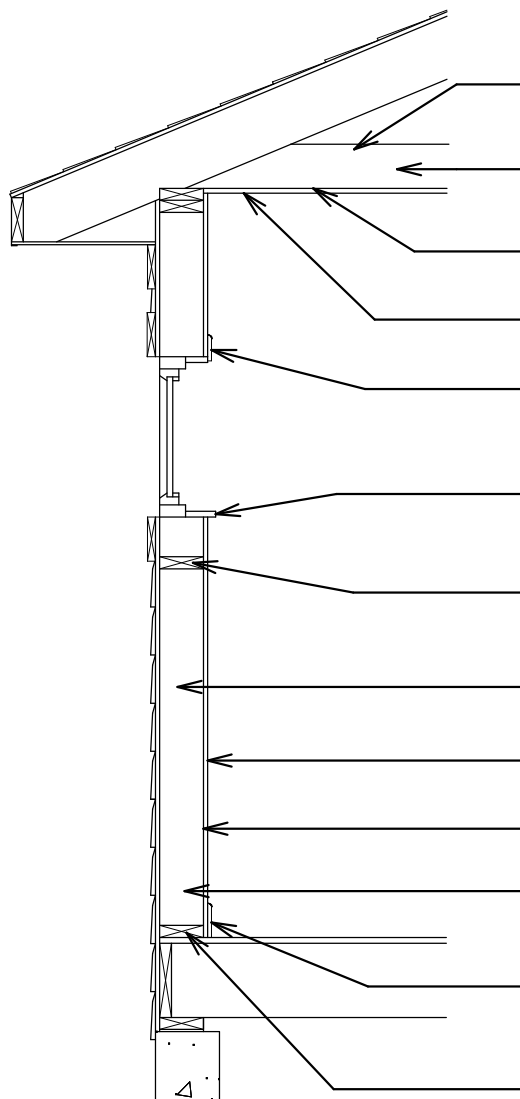


_____	RAKE TRIM SKU	_____	WASTE FACTOR
_____	EXTERIOR OPENING TRIM SKU	_____	
_____	EXTERIOR SILL TRIM SKU	_____	
_____	SIDING SKU COVERAGE: _____	_____	WASTE FACTOR
_____	EXT. WALL SHEATHING SKU	_____	WASTE FACTOR
_____	HOUSE WRAP SKU	_____	WASTE FACTOR
_____	EXTERIOR BASE TRIM SKU	_____	WASTE FACTOR
_____	INSIDE CORNER TRIM SKU	_____	
_____	OUTSIDE CORNER TRIM SKU	_____	

ADDITIONAL ITEMS THAT MAY APPLY:  
(SIDING ACCESSORIES, FASTENERS, ETC.)

Company Name: \_\_\_\_\_

## INTERIOR FINISHES

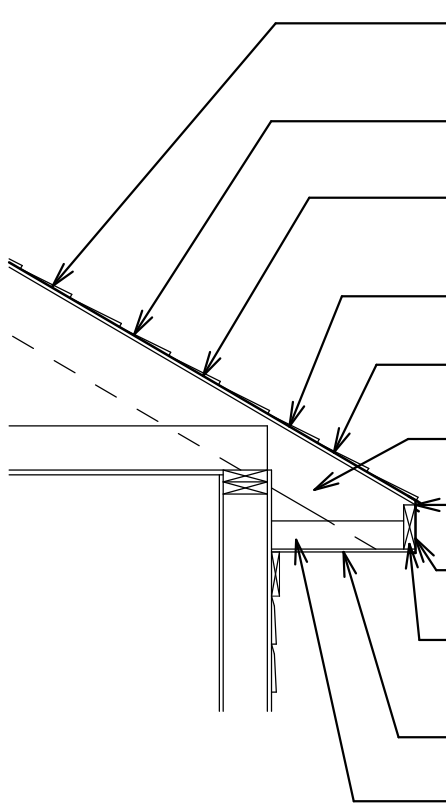


_____	CEILING INSULATION SKU	_____	WASTE FACTOR
_____	CEILING JOIST SPECIES & GRADE	_____	
_____	CEILING MOISTURE BARRIER SKU	_____	WASTE FACTOR
_____	CEILING DRYWALL SKU	_____	WASTE FACTOR
_____	INTERIOR CASING SKU PREFERRED LENGTH(S): _____	_____	
_____	INTERIOR SILL TRIM SKU	_____	
_____	MID WALL BLOCKING SPECIES & GRADE INCLUDE: YES NO	_____	
_____	STUD SPECIES & GRADE	_____	
_____	WALL DRYWALL SKU	_____	WASTE FACTOR
_____	WALL MOISTURE BARRIER SKU	_____	WASTE FACTOR
_____	WALL INSULATION SKU	_____	WASTE FACTOR
_____	INTERIOR BASE SKU PREFERRED LENGTH(S): _____	_____	
_____	PLATE SPECIES & GRADE PREFERRED LENGTH(S): _____	_____	

ADDITIONAL ITEMS THAT MAY APPLY:  
(DRYWALL ACCESSORIES, FASTENERS, ETC.)

Company Name: \_\_\_\_\_

## ROOF DETAIL



_____	ROOF and/or RIDGE VENT SKU	_____	WASTE FACTOR
_____	HIP & RIDGE SHINGLE SKU	_____	WASTE FACTOR
_____	SHINGLE SKU	_____	WASTE FACTOR
_____	UNDERLAY SKU	_____	WASTE FACTOR
_____	ICE & WATER SHIELD SKU NUMBER OF ROWS: _____	_____	WASTE FACTOR
_____	SHINGLE STARTER SKU	_____	WASTE FACTOR
_____	ROOF SHEATHING SKU	_____	WASTE FACTOR
_____	RAFTER SPECIES & GRADE	_____	
_____	DRIP EDGE SKU	_____	WASTE FACTOR
_____	FASCIA SKU	_____	WASTE FACTOR
_____	SUB FASCIA SKU PREFERRED LENGTH(S): _____	_____	WASTE FACTOR
_____	SOFFIT SKU	_____	WASTE FACTOR
_____	SOFFIT JOIST SPECIES & GRADE PREFERRED LENGTH(S): _____	_____	WASTE FACTOR

\_\_\_\_\_  
TYPICAL OVERHANG VALUE

ADDITIONAL ITEMS THAT MAY APPLY:  
(TRUSSES, COVERAGE DETAILS, FASTENERS, ETC.)

Company Name: \_\_\_\_\_

## OTHER DETAILS

Standard Header Span Table			
Material	Load Bearing Walls Max Span	Non Load Bearing Walls Max Span	Other Detail
2-2x4			
2-2x6			
2-2x8			
2-2x10			
2-2x12			
2-LVL			
Header Species and Grade			
Filler Material SKU			

Wall Stud Breakdown			
2x4 Walls		2x6 Walls	
8' Stud SKU		8' Stud SKU	
9' Stud SKU		9' Stud SKU	
10' Stud SKU		10' Stud SKU	

Stair Material Breakdown			
Stringer SKU		Prefab Stair SKU	
Tread SKU			
Riser SKU			

Measurement Information		
Product	SKU	Length
4" Sill Seal		
6" Sill Seal		
Ridge Vent		
Hip & Ridge Shingles		
Ice & Water Shield		
Shingle Starter		
Product	SKU	Area Coverage
2x4 Wall Insulation		
2x6 Wall Insulation		
Ceiling Insulation		
Moisture Barrier		
Roof Underlay		
Soffit		