



1062 Oak Forest Dr.
Onalaska, WI 54650

Phone: (608) 783-1110
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Infotech Lumber Inventory Management for Lumber and Building Materials (LBM) Industry

Introduction: Infotech Lumber Inventory Management enables truss manufacturers and other wood products producers to purchase construction lumber by train-car or truck load (bundle) and then break into appropriate units of measure for proper inventory management of lumber. It provides traceability to the original bundle for quality assurance. Capabilities include tracking of board feet, thousand board feet (MBF), MBF Cost, and also Laminated Veneer Lumber (LVL). Designed with the ability to integrate to Construction Design Software for further process automation.

Included in Business Central:

Microsoft Dynamics 365 Business Central is an all-in-one business management solution that helps businesses manage financials, sales, service and operations easier and faster. It integrates with Microsoft Office 365 to connect business processes and personal productivity bringing insight and efficiency to daily tasks. Business Central is a web-client system, but also supports dedicated apps for mobile devices to provide remote activity.

Inventory is managed in Business Central, however the specific units of measure used in the Lumber and Building Materials (LBM) industry are not included in the standard out-of-box software.

Infotech Lumber Inventory Management Extension:

The Infotech Lumber Inventory Management extension adds lumber units of measure and other attributes specific to the Lumber and Building Materials industry to track and manage inventory and inventory cost from original bundles on a train-car or truckload through the production system. Infotech's LBM extension also enables integration to construction design software.

It all starts with the **Item Card**. The Item Card is extended to provide the attributes required for the LBM industry, including bundles, lumber sizes, grades, species, board feet (BDFT) thousand board feet (MBF) and more.

ITEM CARD

L062S16 · 2X6 #2 SPF 16

Process Report MasterData Item Special Sales P...ces & Discounts Request Approval History Category9 Show Attached More options

Replenishment > Purchase

Planning > Fixed Reorder Qty. None

Item Tracking

Item Tracking Code BUNDLES

Bundle Nos. BUNDLES

Serial Nos.

Lot Nos.

Expiration Calculation

Auto Enter Serial No. Master

Warehouse >

Attributes

Size 2 X 6

Length Description 16

Grade G2S

Species SPF

Gauge

Height 2

Width 6

Length 16

BDFT 16.00

MBF Cost 999.9999

Jobs >

Supply

Inventory	2,091
Qty. on Req. Worksheet	0
Qty. on Purch. Order	874,314
Qty. on Prod. Order	0
Qty. on Transit Order	0
Qty. on Assembly Order	0
Net Supply	876,405

Demand

Qty. on Component Lines	0
Qty. on Sales Order	0
Qty. on Service Order	0
Qty. on Job Order	0
Qty. on Planning Lines	294
Qty. on Asm. Component	0
Net Demand	294
Net Available	876,111

Picture >

The LBM Attributes on the Item Card are then carried forward to the **Purchase Order Card** to enable procurement of the lumber.

Dynamics 365 Business Central

PURCHASE ORDER

109927 · Lumber 'R Us

Process | Navigate | Prepare | Approval | Print | Release | Request Approval | Posting | Print/Send | Order | Show Attached | More options

General Show more

Vendor Name: Lumber 'R Us | Vendor Shipment No.: |
 Contact: John Smith | Posting Description: Order 109927
 Document Date: 5/20/2021 | Your Reference: |
 Vendor Invoice No.: *

Lines | Manage | More options

TYPE	NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE CODE	DIRECT UNIT COST EXCL. TAX	VARIANT CODE	PRODUCT LINE	BDFT	MBF COST	LVL LENGTH	LVL PIECES	TAX LIA.	TZ Ct
Item	L062S16	2X6 #2 SPF 16	4.624	BUNDLES	30,209.76	BUNDLE	LUMBER	16.00	9.990	0.00	0.00		

Invoice Details Show more

Currency Code: | Payment Discount Amount: 0.00
 Expected Receipt Date: | Shipment Method Code: |

Purchase Order Card includes a **FactBox** to quickly look at Vendor Statistics such as Outstanding Orders and any Overdue Amounts.

Dynamics 365 Business Central

PURCHASE ORDER

109927 · Lumber 'R Us

Process | Navigate | Prepare | Approval | Print | Release | Request Approval | Posting | Print/Send | Order | Show Attached | More options

General Show more

Vendor Name: Lumber 'R Us | Vendor Shipment No.: |
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Invoice Details Show more

Currency Code: | Payment Discount Amount: 0.00
 Expected Receipt Date: | Shipment Method Code: |

Attachments
Documents: 0

Vendor Statistics

Vendor No.	LUMBERRUS
Balance (LCY)	0.00
Outstanding Orders (LCY)	9,200,789.47
Amt. Rcd. Not Invd. (\$)	0.00
Outstanding Invoices (LCY)	0.00
Total (\$)	9,200,789.47
Overdue Amounts (\$) as of 0...	0.00
Invoiced Prepayment Amoun...	0.00
Payments (LCY)	0.00
Refunds (LCY)	0.00
Last Payment Date	-

Buy-from Vendor History

Vendor No. LUMBERRUS

0	0	1
Quotes	Blanket Orders	Orders
0	0	0
Invoices	Return Orders	Credit Memos



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The **Item Journal** shows how a bundle is split into pieces, including the size of the pieces. Lot information is carried forward. Piece cost is calculated as well.

ITEM JOURNALS ✓ SAVED

Batch Name: DEFAULT

Manage Posting Prepare History Print Line Item More options

POSTING DATE	ENTRY TYPE	DOCUME... NO.	ITEM NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE CODE	UNIT AMOUNT	AMOUNT	UNIT COST	BDFT	MBF COST	APPLIES-TO ENTRY	APPLIES-TO BUNDLE NO.
5/7/2021	Negative A...	BUNDLE SP...	L062S16	2X6 #2 SPF 16	1	BUNDLES	1,989.79	1,989.79	1,989.79	16	658	962289	339413
5/7/2021	Positive Adj...	BUNDLE SP...	L062S16	2X6 #2 SPF 16	189	PCS	10,527.99	1,989.79	10,527.99	16	658	0	-

The **Bundle List Report** shows the associated lot traceability from bundle to pieces.

Bundle List 5/20/2021 10:48 AM
Page 1

Item No.	Description	Date In	Bundle No.	# of Pieces in Bundle
L062S16	2X6 #2 SPF 16	11/4/2020	339411	189
L062S16	2X6 #2 SPF 16	11/4/2020	339413	189
L062S16	2X6 #2 SPF 16	11/17/2020	339807	189
L062S16	2X6 #2 SPF 16	11/17/2020	339808	189
Total for L062S16	2X6 #2 SPF 16		4 Bundles	756

Bundle Tags can be printed, including a bar code, for attachment to the pieces in the yard.

339815	AMOUNT 189	DATE: 5/20/2021	339815
	G2S 2 X 6	P.O.#: 109927	PRICE: \$ 9990.00
16 FT		GRADE: G2S	LENGTH: 16 FT
		DIMENSION: 2 X 6	QUANTITY: 189
			

339816	AMOUNT 189	DATE: 5/20/2021	339816
	G2S 2 X 6	P.O.#: 109927	PRICE: \$ 9990.00
16 FT		GRADE: G2S	LENGTH: 16 FT
		DIMENSION: 2 X 6	QUANTITY: 189
			

339817	AMOUNT 189	DATE: 5/20/2021	339817
	G2S 2 X 6	P.O.#: 109927	PRICE: \$ 9990.00
16 FT		GRADE: G2S	LENGTH: 16 FT
		DIMENSION: 2 X 6	QUANTITY: 189
			



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The **Bundles Yard Report** gives visibility into the complete inventory in the yard, with lots, sizing and quantities. The Report can be easily revised to include or exclude specific information.

Lumber		5/20/2021 10:51	Page 1 of 1	
Item No.	MBF	Description	Bundles	# of Pieces
L032S10	0.708	2X3 #2 SPF 10	1 Bundles	399
L041608	0.669	2X4 1650 SPF 08	26 Bundles	5924
L041610	0.709	2X4 1650 SPF 10	2 Bundles	588
L041612	0.806	2X4 1650 SPF 12	19 Bundles	5585
L041614	0.762	2X4 1650 SPF 14	11 Bundles	3234
L041616	0.709	2X4 1650 SPF 16	9 Bundles	2646
L041620	0.813	2X4 1650 SPF 20	1 Bundles	294
L042108	0.916	2X4 2100 SPF 08	6 Bundles	1764
L042110	0.875	2X4 2100 SPF 10	18 Bundles	5292
L042112	0.975	2X4 2100 SPF 12	33 Bundles	9702
L042114	0.989	2X4 2100 SPF 14	34 Bundles	9996
L042116	0.995	2X4 2100 SPF 16	42 Bundles	12348
L042808	1.134	2x4 2700 SYP 08	13 Bundles	2704
L042810	1.144	2x4 2700 SYP 10	37 Bundles	7680
L042812	1.196	2x4 2700 SYP 12	33 Bundles	6832
L042814	1.171	2x4 2700 SYP 14	38 Bundles	7840
L042816	1.132	2x4 2700 SYP 16	59 Bundles	12176
L06ST09	0.885	2x6 #2 SPF 104-5/8"	113 Bundles	21357
L06W208	0.933	2X6 Treated #1 GC 08	2 Bundles	128
L06W210	0.998	2X6 Treated #1 GC 10	2 Bundles	128
L06W212	1.147	2X6 Treated #1 GC 12	2 Bundles	128
L06W214	1.116	2X6 Treated #1 GC 14	1 Bundles	64
L06W216	1.117	2X6 Treated #1 GC 16	2 Bundles	128
L082408	1.070	2X8 2400 SYP 08	12 Bundles	1152
L082410	0.921	2X8 2400 SYP 10	11 Bundles	1056
L082412	0.977	2X8 2400 SYP 12	10 Bundles	960
L082414	1.064	2X8 2400 SYP 14	5 Bundles	480
L082416	1.024	2X8 2400 SYP 16	18 Bundles	1728
L082420	0.690	2X8 2400 SYP 20	3 Bundles	288
L082S10	0.829	2x8 #2 SPF 10	1 Bundles	147
L102410	0.976	2x10 2400 SYP 10	6 Bundles	480
L102412	1.058	2x10 2400 SYP 12	7 Bundles	560
L102414	1.158	2x10 2400 SYP 14	8 Bundles	640
L102416	0.976	2x10 2400 SYP 16	14 Bundles	1120
L102S10	0.581	2x10 #2 SPF 10	1 Bundles	105



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When manufacturing trusses, there is a **Truss Information Report** that provides truss information for jobs, including the span and pitch, as well as specific marks on the trusses for identification. Other information available includes the shift and date built.

MJ1198-01		Customer	5/20/2021 12:00:00 AM			
		Job Name	Roof Truss System			
Job Information	Mark	Job Quantity	Span Feet	Span Inches	Span 16ths	Pitch
	R24S4	47	24	0	0	4
	R24S6	6	24	0	0	6
	R26S4	18	26	0	0	4
	R28S4	13	28	0	0	4
	R30S4	4	30	0	0	4
	RE24S4	1	24	0	0	4
	RE24S6	2	24	0	0	6
	RE28S4	2	28	0	0	4
	RE30S4	2	30	0	0	4
Builder Information	Truss Mark	Qty. Built	Shift	Crew Leader		Date Built
	R24S6	6	PROD1			5/13/2021
	RE24S6	2	PROD1			5/15/2021
	R24S4	15	PROD2			5/16/2021
	R24S4	19	PROD1			5/16/2021
	R24S4	13	PROD2			5/18/2021
	R26S4	14	PROD1			5/18/2021
	R26S4	4	PROD2			5/18/2021
	R28S4	13	PROD2			5/19/2021
	R30S4	4	PROD2			5/19/2021
	RE24S4	1	PROD1			5/20/2021
	RE28S4	2	PROD2			5/20/2021
	RE30S4	2	PROD1			5/20/2021



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From a cost accounting perspective, there are reports to gather the average board-foot cost, and complete inventory valuation.

No Item	Description Item	Grade	Size	Length	Pcs	Total Board Ft	Amount	Ave. BF Cost	Floor	Roof
L032S07	2X3 #2 SPF 07	G2S	2 X 3	7	0	0.00	0.00	0.383	0.413	0.440
L032S08	2X3 #2 SPF 08	G2S	2 X 3	8	0	0.00	0.00	0.638	0.689	0.734
L032S09	2X3 #2 SPF 09	G2S	2 X 3	9	0	0.00	0.00	0.471	0.508	0.541
L032S10	2X3 #2 SPF 10	G2S	2 X 3	10	399	1,995.00	1,412.46	0.708	0.765	0.814
L032S14	2X3 #2 SPF 14	G2S	2 X 3	14	0	0.00	0.00	0.683	0.738	0.785
L041607	2X4 1650 SPF 07	G16	2 X 4	7	0	0.00	0.00	0.690	0.745	0.794
L041608	2X4 1650 SPF 08	G16	2 X 4	8	5935	31,653.33	21,191.87	0.669	0.723	0.770
L041610	2X4 1650 SPF 10	G16	2 X 4	10	588	3,920.00	2,779.28	0.709	0.766	0.815
L041612	2X4 1650 SPF 12	G16	2 X 4	12	5585	44,680.00	36,016.60	0.806	0.871	0.927
L041614	2X4 1650 SPF 14	G16	2 X 4	14	3177	29,652.00	22,609.09	0.762	0.823	0.877
L041616	2X4 1650 SPF 16	G16	2 X 4	16	2646	28,224.00	20,010.82	0.709	0.766	0.815
L042107	2X4 2100 SPF 07	G21	2 X 4	7	0	0.00	0.00	0.540	0.583	0.621
L042108	2X4 2100 SPF 08	G21	2 X 4	8	2567	13,690.67	12,540.28	0.916	0.989	1.053
L042110	2X4 2100 SPF 10	G21	2 X 4	10	6214	41,426.67	36,264.28	0.875	0.945	1.007
L042112	2X4 2100 SPF 12	G21	2 X 4	12	10139	81,112.00	79,062.71	0.975	1.053	1.121
L042114	2X4 2100 SPF 14	G21	2 X 4	14	10377	96,852.00	95,765.91	0.989	1.068	1.137

Inventory Valuation											Thursday, May 20, 2021 11:15 AM		
Quantities and Values As Of 05/20/21											Page 1		
Item: No.: L062S*													
No.	Description	Remaining Quantity	Unit Cost	Inventory Value	Bd Ft per Unit	Total Bd Ft	Cost per Bd Ft	Last Actual Cost	Variance				
L062S02	2X6 #2 SPF 02	14	1.89	26.49	2.00	28.00	0.95	0.95	0.00 %				
L062S07	2X6 #2 SPF 07	46	5.08	233.85	7.00	322.00	0.73	0.94	-22.34 %				
L062S08	2X6 #2 SPF 08	2,471	5.53	13,670.03	8.00	19,768.00	0.69	0.57	23.21 %				
L062S10	2X6 #2 SPF 10	3,551	9.28	32,941.63	10.00	35,510.00	0.93	1.18	-21.19 %				
L062S12	2X6 #2 SPF 12	2,971	8.50	25,249.90	12.00	35,652.00	0.71	0.72	-1.39 %				
L062S14	2X6 #2 SPF 14	1,266	9.99	12,651.65	14.00	17,724.00	0.71	0.77	-7.79 %				
L062S16	2X6 #2 SPF 16	2,091	10.75	22,474.35	16.00	33,456.00	0.67	0.66	1.52 %				
Total Inventory Value				107,247.90		142,460.00	0.75						



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Additional Third-Party Tools:

In addition to the capabilities provided in standard Microsoft Dynamics 365 Business Central and the Infotech Lumber Inventory Management extension, there are third party tools that can further expand the capabilities for the Lumber and Building Material industry. Infotech has integrated with leading construction design software to support your projects, from decks to trusses to complete structures.

Infotech will assist in identifying any third-party applications that would be required to support additional requirements.

Summary

Infotech Lumber Inventory Management provides the features required for proper management of lumber and wood products that are not standard out-of-the-box in most ERP solutions, including Microsoft Dynamics 365 Business Central. INFOTECH has worked with numerous truss and wood products manufacturers to add the features to properly manage inventory in the ways that are unique to their industry.

For more information, or to schedule a personal demonstration, please contact us directly, either via the website CONTACT button (<http://www.infotech-inc.com/contact>), or to our e-mail at <mailto:information@infotech-inc.com>.

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