

RENTAL APARTMENT BUILDING

USING THE REPLACEMENT RESERVE FOLDER. USA EXAMPLE

INTRODUCTION

Mortgage insurance agencies, conventional lenders and lenders following HUD guidelines often require that Replacement Reserves be established and maintained in an interest-bearing account to aid in funding extraordinary maintenance and repair and replacement of capital items such as the roof.

The contract will restrict how the money in the account will be used and will limit the use to major repairs and replacements and restrict the owner from withdrawing funds from the account for personal use.

Prudent investors may also maintain their own Replacement Reserve Accounts to ensure that they have funds available for major repairs and replacements.

This means that a buyer of an income property where the lender or insurer requires funded Replacement Reserves must make sure that the acquisition costs will include the allocated amount in the Replacement Reserve account. For example, if there is to be \$430,000 in the Replacement Reserve Account the acquisition costs will be increased by \$430,000 to fund the Replacement Reserve Account.

This Investit example illustrates the use of the Replacement Reserve folder using the Investit Example "Rental Apartment Building Yearly" and assumes you are familiar with Investit Pro, how to use the Projection Wizard etc., and focuses on using the "Replacement Reserve Folder"

This practice example consists of three sections;

1. The input information for the project related to the Replacement Reserves
2. Instructions for entering the data
3. Sample reports and discussion

PROJECT INFO. Folder

Same as the Investit Example "Rental Apartment Building Yearly" except:

Change the Description from

"Investment Analysis Rental Units Example" to;

"Example with Replacement Reserves"

INVESTOR Folder

No change. Same as the Investit Example "Rental Apartment Building Yearly"

INVESTMENT Folder

Same as the Investit Example "Rental Apartment Building Yearly" with the following addition;

Roof Replacement Year 3: \$250,000

Depreciation Method: Residential Prop. St Line

REPLACEMENT RESERVES Folder

Opening Balance: \$300,000.

(This is the amount in the Replacement Reserve Account on the Analysis Start Date)

Interest Rate: 1.50%

Amounts added to the Replacement Reserve Account

Annual Contributions: Year 1 \$24,000 increasing at 3.00% compounding per year

Amounts withdrawn from the Replacement Reserve Account

Roof Replacement: Year 3 Jan: <\$250,000>

Replace Appliances. 10 sets at <\$1,500> per set for a total of<\$15,000>

Note: **Additions** to the Replacement Reserve Account are entered as a **positive value**
 Withdrawals from the Replacement reserve Account are entered as a **negative value**

EXPENSES Folder

Add the following:

Replace Appliances Year 4 -- \$15,000

The following Folders are the same as the Investit Example "Rental Apartment Building Yearly"

REVENUE Folder

VACANCY Folder

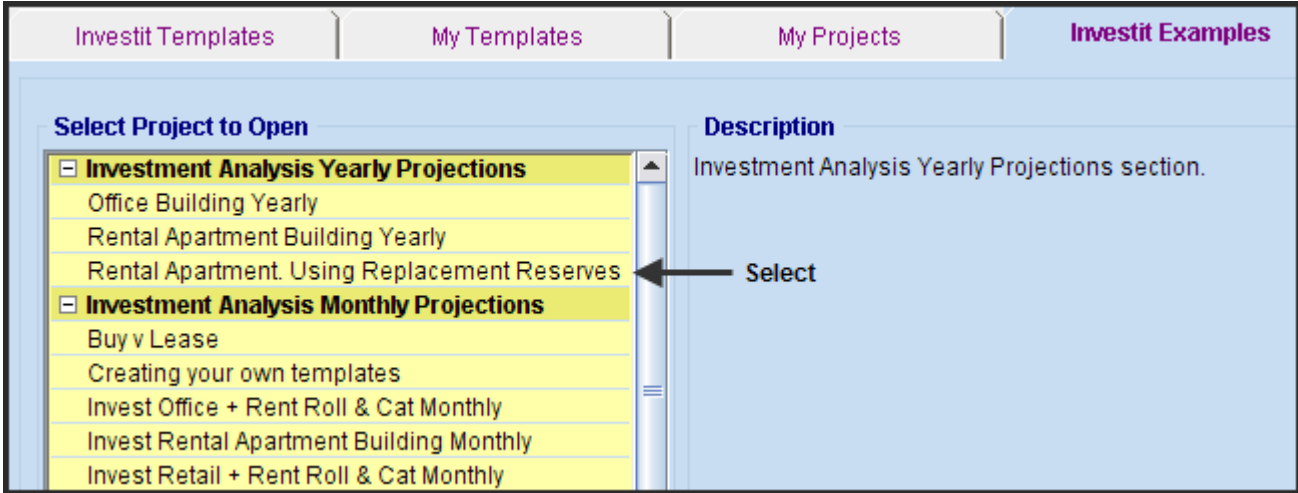
FINANCING Folder

SALE Folder

INSTRUCTIONS FOR ENTERING THE REPLACEMENT RESERVE INFORMATION

Selecting the Investit Example

The first step is to open Investor Pro and open the Investit Example “Rental Apartment Building. Using Replacement Reserves”



PROJECT INFO Folder

Change the Description to “Example with Replacement Reserves”

Project Info.	Investor	Investment	Replacement Reserve	Expenses	Revenue	Vacancy	Financing	Sale
Report Headers Property Name: Parklane Place 40 Unit Apartment Building Description: Example with Replacement Reserves				Building Building Area: 38,000 Sq. Ft Rental Units Units, Rentable Area: 36,000 Sq. Ft Total No. of Units: 40				
Total Purchase Price Purchase Price: \$ 3,500,000 ↑ Change Acquisition Costs: 2.00% % of Purchase Price Total Purchase Price: \$ 3,570,000								
Analysis Time Period 10 Years Change Analysis Time Period								
Entry Information Enter Revenue and Expenses: Yearly Change Entry Information Starting Date: January Year 1								
Calculate Financial Measures based on <input checked="" type="radio"/> Potential Gross Income <input type="radio"/> Effective Gross Income Edit Unit of Measure				Land Land Area: 46,000 Sq. Ft Frontage: 320 Ft				

INVESTOR Folder

No changes

INVESTMENT Folder

1. Add a row
2. Enter the Description "Roof Replacement"
3. Enter Amount "\$250,000"
4. Select Year 3
5. Select Depreciation Method "Residential Prop. St Line"

Project Info. Investor **Investment** Replacement Reserve Expenses Revenue Vacancy Financing Sale

Investment Losses: Active Investor. No Loss Limitation

Purchase Price and Capital Improvements

Inflate

Description	Amount	Year	Month	Depreciation Method	Recovery Period [yrs]
Land	\$ 1,000,000	Year 1	Jan	Land (No Deprec.)	
Building	\$ 2,570,000	Year 1	Jan	Residential Prop. St Line	27.5
Mortgage Fees and Points	\$ 20,000	Year 1	Jan	Amort. Mortgage Fees	10.0
Roof Replacement	\$ 250,000	Year 3	Jan	Residential Prop. St Line	27.5

↑ Add
↑ Enter
↑ Select
↑ Select

Purchase Price [Year 1 Total] \$ 3,570,000

Add Insert Delete Move

REPLACEMENT RESERVE Folder

Interest Rate: 1.50%

Existing Replacement Reserve: \$300,000. (The balance in the account on the Analysis Start Date)

Amounts added to the Replacement Reserve Account

Annual Contribution: Year 1 \$24,000 increasing at 3.00% per year compounding

Amount withdrawn from the Replacement Reserve Account. Enter as negative value

Roof Replacement: Year 3 Jan: <\$250,000>

Enter as a negative number because \$250,000 is being withdrawn from the Replacement Reserve account

Replace Appliances 10 Sets at <\$1,500> per set

Entries

1. Enter the Interest Rate: 1.50%
2. Enter the Existing Replacement Reserve on Analysis Start Date: \$300,000
3. Add two more rows and enter the Descriptions
4. For the "Replace Appliances" row select the Entry Choice "Price per Unit and Quantity"

Project Info.	Investor	Investment	Replacement Reserve	Expenses	Revenue	Vacancy	Financing	Sale
Interest Rate → 1.500%		Existing Replacement Reserve: \$ 300,000 ←						
Replacement Reserve								
Description	Entry Choice	Year 1 Jan...	Year 2 Jan...	Year 3 Jan...	Year 4 Jan...	Year 5 Jan...	Year 6 Jan...	Year 7 Jan...
Annual Contributions	Add or Subtract (-) Replacement Reserve	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Roof Replacement	Add or Subtract (-) Replacement Reserve	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Replace Appliances	Price per Unit and Quantity	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Quantity	0	0	0	0	0	0	0

↑ ↑
↑
 Add Two rows and Descriptions Select Entry Choice "Price per Unit & Quantity"

- Select Row "Annual Contributions", click on the Projection Wizard button and complete the Projection Wizard as shown below;

The screenshot shows the 'Replacement Reserve' tab in the software. The 'Annual Contributions' row is highlighted in yellow. Below the table, the 'Projection Wizard' dialog box is open. The 'Entry Information' section shows 'Description: Annual Contributions' and 'Entry Choice: Add or Subtract (-) Replacement Reserve'. The 'Projection' section shows a table with columns: Entry, Project Entry Using..., Increase, Starting Year, To End, Yrs, and Cont. Proj. The values are: \$ 24,000, Annual Compounding, 3.00%, Year 1, [checked], 10, and [blank]. Arrows point to the 'Select', 'Enter', and 'Check' buttons below the projection table.

- Select the second row "Roof Replacement" and enter -\$250,000 in Year 3
- Select the third row "Replace Appliances" and enter -\$1,500 in Year 4
Quantity row: 10

The screenshot shows the 'Replacement Reserve' tab with the 'Roof Replacement' and 'Replace Appliances' rows highlighted. The 'Roof Replacement' row has a value of -\$250,000 in the Year 3 column. The 'Replace Appliances' row has a value of -\$1,500 in the Year 4 column and a quantity of 10. Arrows point to the 'Enter' buttons for the Year 3 and Year 4 columns.

EXPENSES Folder

Add a row and;

1. Enter the Description “ Replace Appliances”
2. Selected the Entry Choice ‘Amount”
3. Uncheck the “NOI” box
4. Enter \$15,000 in Year 4

Important Note:


Because the replacement of the appliances for \$15,000 is a non recurring expense the “NOI” column is unchecked which means that the \$15,000 won’t be included in the Net Operating Income but will be included in calculating the Net Income.

Each year the sale price is calculated using the Net Operating Income for the year and a Cap Rate of 7.00%. If the replacement of the appliances for \$15,000 is included in the Net Operating Income in year 4 the sale value in year 4 will drop in value by \$15,000/7.00% which is \$214,286.

Non recurring expenses should not be included in the Net Operating Income when using Cap Rates to determine the value of the property. Below is the completed Expenses folder.

Project Info.	Investor	Investment	Replacement Reserve	Expenses	Revenue	Va		
Expenses								
Description	Entry Choice	Qty	NOI	Year 1 Jan...	Year 2 Jan...	Year 3 Jan...	Year 4 Jan...	Year 5 Jan...
Property Taxes	\$ per Yr	—	<input checked="" type="checkbox"/>	\$ 90,000	\$ 93,600	\$ 97,344	\$ 100,264	\$ 103,272
Insurance	\$ per Yr	—	<input checked="" type="checkbox"/>	\$ 45,000	\$ 47,250	\$ 49,613	\$ 52,093	\$ 54,698
Maintenance	\$ per Unit x Total No.of Units per Yr	40	<input checked="" type="checkbox"/>	\$ 400	\$ 416	\$ 433	\$ 450	\$ 468
Resident Caretaker	\$ per Mo	—	<input checked="" type="checkbox"/>	\$ 3,000	\$ 3,120	\$ 3,245	\$ 3,375	\$ 3,510
Property Manager	% of Effective Gross Income	—	<input checked="" type="checkbox"/>	4.00%	4.00%	4.00%	4.00%	4.00%
Other Expenses	% of Potential Gross Income	—	<input checked="" type="checkbox"/>	3.00%	3.00%	3.00%	3.00%	3.00%
Replace Appliances	Amount	—	<input type="checkbox"/>	\$ 0	\$ 0	\$ 0	\$ 15,000	\$ 0
↑ Add row and enter Description		↑ Select		↑ Uncheck		↑ Enter		

Replacing the appliances for \$15,000 is excluded from the Net Operating Income calculation.

		Income & Expense Statement Yearly Parklane Place 40 Unit Apartment Building Example with Replacement Reserves										October 18, 2010 Investor Pro	
		Rental Apartment. Using Replacement Reserves											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11		
REVENUE													
One bedroom Units	270,000	278,100	286,500	294,900	303,900	312,900	322,500	332,100	342,000	352,200	363,000		
Two bedroom Units	198,000	205,920	214,200	222,660	231,660	240,840	250,560	260,640	270,900	281,880	293,040		
Laundry	7,200	7,680	8,160	8,160	8,640	9,120	9,600	10,080	10,560	11,040	11,520		
Parking	24,000	25,200	26,460	27,786	29,172	30,630	32,160	33,768	35,460	37,230	39,096		
Potential Gross Income	499,200	516,900	535,320	553,506	573,372	593,490	614,820	636,588	658,920	682,350	706,656		
Less: Vacancy & Credit Loss Allowance	14,256	14,751	15,266	15,772	16,326	16,886	17,480	18,085	18,704	19,354	20,027		
Effective Gross Income	484,944	502,149	520,054	537,734	557,046	576,604	597,340	618,503	640,216	662,996	686,629		
Operating Expenses													
Property Taxes	90,000	93,600	97,344	100,264	103,272	106,370	109,562	112,848	116,234	119,721	123,312		
Insurance	45,000	47,250	49,613	52,093	54,698	57,433	60,304	63,320	66,485	69,810	73,300		
Maintenance	16,000	16,640	17,320	18,000	18,720	19,480	20,240	21,040	21,880	22,760	23,680		
Resident Caretaker	36,000	37,440	38,940	40,500	42,120	43,800	45,552	47,376	49,272	51,240	53,292		
Property Manager	19,398	20,086	20,802	21,509	22,282	23,064	23,894	24,740	25,609	26,520	27,465		
Other Expenses	14,976	15,507	16,060	16,605	17,201	17,805	18,445	19,098	19,768	20,471	21,200		
	221,374	230,523	240,079	248,972	258,293	267,952	277,996	288,422	299,247	310,521	322,249		
Net Operating Income	263,570	271,626	279,975	288,763	298,753	308,652	319,344	330,082	340,969	352,475	364,380		
Less: Expense not included in NOI				15,000									
Replace Appliances				15,000									
Net Income	263,570	271,626	279,975	273,763	298,753	308,652	319,344	330,082	340,969	352,475	364,380		
Interest on Mlce Reserve Account	4,860	5,304	2,015	2,214	2,652	3,109	3,586	4,082	4,600	5,138			
Income	268,430	276,930	281,991	275,977	301,405	311,762	322,930	334,164	345,569	357,613	364,380		

REVENUE Folder

No changes

VACANCY Folder

No vacancies to be entered

FINANCING Folder

No changes

SALE Folder

No changes

Save the completed project

REPLACEMENT RESERVE REPORT.

The Replacement Reserve Report shows the;


- Opening Balance in the Replacement Reserve Account
- Interest Rate
- Inflows or amounts deposited into the Replacement Reserve Account
- Outflows or amounts withdrawn from the Replacement Reserve Account
- Interest earned
- The amount recovered when the property is sold at the end of the analysis period. Called the “Recovery”

Replacement Reserve “Recovery”

At the end of the Analysis Period the balance in the Replacement Reserve Account is recovered and the account reduced to zero. This provides a positive cash flow to the investor. In this case the “Recovery” is \$347,693

Important Notes:

1. Deposits into the account on the report are shown as a negative value
2. Amounts withdrawn are shown as a positive value

		Replacement Reserve Yearly Parklane Place 40 Unit Apartment Building Example with Replacement Reserves		October 15, 2010 Investor Pro Rental Apartment. Using Replacement Reserves							
Maintenance Reserve Accounts											
Opening Balance: \$ 300,000 ←											
Interest Rate: 1.500% ←											
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Annual Contributions											
Additions to Mtce Reserves		24,000	24,720	25,462	26,225	27,012	27,823	28,657	29,517	30,402	31,315
Roof Replacement											
Additions to Mtce Reserves		-	-	(250,000)	Roof Replacement	-	-	-	-	-	-
Replace Appliances											
Price per Unit		-	-	-	(1,500)	Appliance Replacement					-
Quantity		-	-	-	10						-
Additions to Mtce Reserves		-	-	-	(15,000)	-	-	-	-	-	-
Replacement Reserve Summary											
Balance, Beginning of Year		300,000	328,860	358,884	136,361	149,800	179,464	210,396	242,639	276,238	311,240
Additions to Mtce Reserves		24,000	24,720	(224,538)	11,225	27,012	27,823	28,657	29,517	30,402	31,315
Balance before Interest		324,000	353,580	134,346	147,586	176,812	207,287	239,053	272,156	306,640	342,555
Interest		4,860	5,304	2,015	2,214	2,652	3,109	3,586	4,082	4,600	5,138
Recovery											(347,693) Recovery
Balance, End of Year		328,860	358,884	136,361	149,800	179,464	210,396	242,639	276,238	311,240	-

Using the Replacement Reserve Account. Important Comments

The Replacement Reserve Account is similar to a bank account and care has to be taken that the entries and resulting cash flows are correct. This is best illustrated using the example.

Care has to be taken in using Replacement Reserve Folder to ensure that the cash flows are correct which requires offsetting entries for capital expenditures or major repairs. This is best illustrated using the example.

Annual Contribution

The annual amount contributed to the reserve account is \$24,000 increasing at 3.00% compounding. This entry is straight forward.

Replacement of the Roof for \$250,000 in year 3.

Two offsetting entries are required when entering the roof replacement for \$250,000 in year 3;

1. Enter the Roof Replacement for <\$250,000> in the Replacement Reserve Folder. The entry is negative because it's a withdrawal from the replacement reserve account

Replacement Reserve		Year 1 Jan...	Year 2 Jan...	Year 3 Jan...	Year 4 Jan...	Year 5 Jan...
Annual Contributions	Add or Subtract (-) Replacement Reserve	\$ 24,000	\$ 24,720	\$ 25,462	\$ 26,225	\$ 27,000
Roof Replacement	Add or Subtract (-) Replacement Reserve	\$ 0	\$ 0	-\$ 250,000	\$ 0	\$ 0
Replace Appliances	Price per Unit and Quantity	\$ 0	\$ 0	\$ 0	-\$ 1,500	\$ 0
	Quantity	0	0	0	10	0

2. Enter the Roof Replacement for \$250,000 in the Investment Folder and set up the depreciation claim

Description	Amount	Year	Month	Depreciation Method	Recovery Period [yrs]
Land	\$ 1,000,000	Year 1	Jan	Land (No Deprec.)	
Building	\$ 2,570,000	Year 1	Jan	Residential Prop. St Line	27.5
Mortgage Fees and Points	\$ 20,000	Year 1	Jan	Amort. Mortgage Fees	10.0
Roof Replacement	\$ 250,000	Year 3	Jan	Residential Prop. St Line	27.5

Question.

Why is it necessary to set up the replacement of the roof for \$250,000 in both the Replacement Reserve Folder and the Investment folder?

The objective of the Replacement Reserve Account is to build up funds to pay for future replacement of capital items and major repairs. In this example there is an opening balance of \$300,000 in the Replacement Reserve Account with funds are being added to the account every year. Funds added to the account have the effect of reducing the Internal Rate of Return to the investor.

The roof replacement in Year 3 for \$250,000 is paid from the Replacement Reserve Account and requires no additional input of cash from the Investor and does not effect the before tax cash flow in year 3 as long as there is an offsetting entry in the Investment folder.

The \$250,000 from the Replacement Reserve Account is used to pay for the roof replacement and is entered in the Investment Folder.

From an investment perspective there are no funds required from the Investor to pay for the roof repair. It is simply an internal transfer of funds from the Replacement Reserve Account to the Investment folder. This can be seen in the Net Cash Flow report where the <\$250,000> Year 3 in the Investment column is offset by the \$250,000 reduction in the Replacement Reserve Account.

Net Cash Flow (Before Tax)							October 20, 2010		
Parklane Place 40 Unit Apartment Building							Investor Pro		
Example with Replacement Reserves							Rental Apartment. Using Replacement Reserves		
Year	Investment	Financing		Replacement Reserve Acct. Flow		Cash	Operating Cash Flow (Before Tax)	Sale Proceeds (Before Tax)	Net Cash Flow (Before Tax)
		Borrow	Paid Back	Additions	Reductions				
Year 1 Jan-Year 1 Dec	\$ (3,500,000)	\$ 2,000,000	-	\$ (24,000)	-	\$ -	86,212	-	\$ (1,527,788)
Year 2 Jan-Year 2 Dec	-	-	-	(24,720)	-	-	94,268	-	69,548
Year 3 Jan-Year 3 Dec	→ (250,000)	-	-	(25,462)	250,000 ←	-	102,617	-	77,155
Year 4 Jan-Year 4 Dec	-	-	-	(26,225)	15,000	-	96,406	-	85,180
Year 5 Jan-Year 5 Dec	-	-	-	(27,012)	-	-	121,395	-	94,383
Year 6 Jan-Year 6 Dec	-	-	-	(27,823)	-	-	131,294	-	103,471
Year 7 Jan-Year 7 Dec	-	-	-	(28,657)	-	-	141,986	-	113,329
Year 8 Jan-Year 8 Dec	-	-	-	(29,517)	-	-	152,724	-	123,207
Year 9 Jan-Year 9 Dec	-	-	-	(30,402)	-	-	163,611	-	133,209
Year 10 Jan-Year 10 Dec	-	-	(1,594,349)	(31,315)	347,693	-	175,117	4,936,162	3,833,308
								Total	\$ 3,105,003

Financial Returns (Before Tax) with Financing	
Internal Rate of Return (IRR)	12.62 %
Net Present Value (NPV) at 13.00 %	(\$ 47,101)
Modified Internal Rate of Return (MIRR)	11.08 %
Short Term Financing Rate (Before Tax)	8.00 %
Short Term Reinvestment Rate (Before Tax)	3.00 %

Balance in the Replacement Reserve Account when the building is sold. Includes accrued interest

Replacement of the Appliances. 10 sets at <\$1,500> per set for a total of <\$15,000>

Two offsetting entries are required when entering the replacement of the appliances for \$15,000 in year 4:

1. Enter the "Replace Appliances" for <\$1,500> and the Quantity 10 in the Replacement Reserve Folder in year 4. The \$1,500 entry is negative because it's a withdrawal from the Replacement Reserve account.

Project Info.	Investor	Investment	Replacement Reserve	Expenses	Revenue	Vacancy	Financing	Sale
Interest Rate		1.500%		Existing Replacement Reserve:		\$ 300,000		
Replacement Reserve								
Description	Entry Choice		Year 1 Jan...	Year 2 Jan...	Year 3 Jan...	Year 4 Jan...	Year 5 Jan...	Yr
Annual Contributions	Add or Subtract (-) Replacement Reserve	-	\$ 24,000	\$ 24,720	\$ 25,462	\$ 26,225		
Roof Replacement	Add or Subtract (-) Replacement Reserve	-	\$ 0	\$ 0	-\$ 250,000	\$ 0		
Replace Appliances	Price per Unit and Quantity	-	\$ 0	\$ 0	\$ 0	-\$ 1,500		
	Quantity		0	0	0	10		

2. Enter the "Replace Appliances" for \$15,000 in the Expenses Folder. uncheck the "NOI" box. We don't want the replacement of the appliances included in the Net Operating Income because it is a non-recurring or extraordinary expense.

The "Expenses Folder" has been used instead of the "Investment Folder" because the partial replacement of the appliances can likely be expensed for tax purposes rather than capitalized.

Offsetting entries. Transferring funds from the Replacement Reserve Account to the Expenses folder

Project Info.	Investor	Investment	Replacement Reserve	Expenses	Revenue	Va		
Expenses								
Description	Entry Choice	Qty	NOI	Year 1 Jan...	Year 2 Jan...	Year 3 Jan...	Year 4 Jan...	Year 5 Jan...
Property Taxes	\$ per Yr	—	<input checked="" type="checkbox"/>	\$ 90,000	\$ 93,600	\$ 97,344	\$ 100,264	\$ 103,272
Insurance	\$ per Yr	—	<input checked="" type="checkbox"/>	\$ 45,000	\$ 47,250	\$ 49,613	\$ 52,093	\$ 54,699
Maintenance	\$ per Unit x Total No. of Units per Yr	40	<input checked="" type="checkbox"/>	\$ 400	\$ 416	\$ 433	\$ 450	\$ 468
Resident Caretaker	\$ per Mo	—	<input checked="" type="checkbox"/>	\$ 3,000	\$ 3,120	\$ 3,245	\$ 3,375	\$ 3,510
Property Manager	% of Effective Gross Income	—	<input checked="" type="checkbox"/>	4.00%	4.00%	4.00%	4.00%	4.00%
Other Expenses	% of Potential Gross Income	—	<input checked="" type="checkbox"/>	3.00%	3.00%	3.00%	3.00%	3.00%
Replace Appliances	Amount	—	<input type="checkbox"/>	\$ 0	\$ 0	\$ 0	\$ 15,000	\$ 0

Add row and enter Description
 Select
 Uncheck
 Enter

Question.

Why is it necessary to set up the replacement of the appliances for \$15,000 in both the Replacement Reserve Folder and the Expenses folder?

The replacement of the appliances in Year 4 for \$15,000 is paid from the Replacement Reserve Account and requires no additional input of cash from the Investor.

The \$15,000 is used to pay for the replacement of the appliance and is entered as an expense in the Expenses folder. The partial replacement of the appliance would likely be expensed for tax purposes rather than capitalized and claimed though depreciation.

From an investment perspective there are no funds required from the investor to pay for the replacement of the appliances. It is simple an internal transfer of funds from the Replacement Reserve Account to the Expenses folder.


Replacement Reserve Folder. General Rules

Care has to be taken when using the Replacement Reserve Folder to ensure that the cash flows and the calculation of the Internal Rate of Return (IRR) and Net Present Value are correct.

1. Contributions or additions to the Replacement Reserve Account are entered as a positive value
2. Withdrawals from the Replacement Reserve Account are entered as a negative value
3. Capitalized investments such as replacing a roof, which are funded from the Replacement Reserve account, require offsetting entries and is entered in both the
 - Replacement Reserve folder **AND**
 - The Investment folder with the appropriate depreciation method selected
4. Major repairs or replacements that can be expensed for tax purposes are entered in both the
 - Replacement Reserve folder **AND**
 - The Expenses folder. The "NOI" box unchecked so that the major repair, which is a non- recurring expenses, is not included in the Net Operating Income.
5. Withdrawals or payments to the Investor from the Replacement Reserve account can be made directly in the Replacement Reserve folder and don't involve offsetting entries.

6. Replacement Reserve. Interest calculations

The funds in the replacement Reserve account earn interest based on the interest rate entered in the Replacement Reserve Account. The interest calculations are shown in the Replacement Reserve Report.

		Replacement Reserve Yearly									
		Parklane Place 40 Unit Apartment Building Example with Replacement Reserves								October 19, 2010 Investor Pro Rental Apartment. Using Replacement Reserves	
Maintenance Reserve Accounts											
Opening Balance: \$ 300,000											
Interest Rate: 1.500% ←											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Annual Contributions											
Additions to Mtce Reserves	24,000	24,720	25,462	26,225	27,012	27,823	28,657	29,517	30,402	31,315	
Roof Replacement											
Additions to Mtce Reserves	-	-	(250,000)	-	-	-	-	-	-	-	
Replace Appliances											
Price per Unit	-	-	-	(1,500)	-	-	-	-	-	-	
Quantity	-	-	-	10	-	-	-	-	-	-	
Additions to Mtce Reserves	-	-	-	(15,000)	-	-	-	-	-	-	
Replacement Reserve Summary											
Balance, Beginning of Year	300,000	328,860	358,884	136,361	149,800	179,464	210,396	242,639	276,238	311,240	
Additions to Mtce Reserves	24,000	24,720	(224,538)	11,225	27,012	27,823	28,657	29,517	30,402	31,315	
Balance before Interest	324,000	353,580	134,346	147,586	176,812	207,287	239,053	272,156	306,640	342,555	
Interest ←	4,860	5,304	2,015	2,214	2,652	3,109	3,586	4,082	4,600	5,138	
Recovery →											(347,693)
Balance, End of Year	328,860	358,884	136,361	149,800	179,464	210,396	242,639	276,238	311,240	-	
The "Recovery" includes accumulated interest ↑											

The interest accumulates in the Replacement Reserve Account and is not reflected in the cash flows until the property is sold. The balance in the replacement reserve account when the property is sold includes the accumulated interest. At this time the balance in the replacement reserved account which includes accumulated interest is returned to the investor. In the example the "Recovery" at the end of the analysis period is \$347,693

For after tax analysis income tax is paid on the interest earned on the funds in the Replacement Reserve account which is shown on the Operating Cash Report on the next page.

Operating Cash Flow Report

Shows the interest being included in the income tax calculations.

Operating Cash Flow Yearly										October 19, 2010
Parklane Place 40 Unit Apartment Building Example with Replacement Reserves										Investor Pro
Rental Apartment. Using Replacement Reserves										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
CASH FLOW BEFORE TAX										
Potential Gross Income	499,200	516,900	535,320	553,506	573,372	593,490	614,820	636,588	658,920	682,350
Less: Vacancy & Credit Loss Allow.	14,256	14,751	15,266	15,772	16,326	16,886	17,480	18,085	18,704	19,354
Effective Gross Income	484,944	502,149	520,054	537,734	557,046	576,604	597,340	618,503	640,216	662,996
Operating Expenses	221,374	230,523	240,079	248,972	258,293	267,952	277,996	288,422	299,247	310,521
Net Operating Income	263,570	271,626	279,975	288,763	298,753	308,652	319,344	330,082	340,969	352,475
Less: Expenses not included in NOI	-	-	-	15,000	-	-	-	-	-	-
Net Income	263,570	271,626	279,975	273,763	298,753	308,652	319,344	330,082	340,969	352,475
Less: Principal Payments	28,318	30,517	32,886	35,439	38,190	41,155	44,350	47,793	51,503	55,501
Interest payments	149,040	146,841	144,472	141,919	139,168	136,203	133,008	129,565	125,855	121,857
CASH FLOW BEFORE TAX	86,212	94,268	102,617	96,405	121,395	131,294	141,986	152,724	163,611	175,117
Less: Income Tax at 35.00%	9,752	12,122	11,674	10,329	20,192	24,855	29,881	35,019	40,309	47,432
CASH FLOW AFTER TAX	76,461	82,146	90,943	86,076	101,203	106,440	112,105	117,705	123,302	127,686
INCOME TAX CALCULATIONS										
Net Operating Income	263,570	271,626	279,975	273,763	298,753	308,652	319,344	330,082	340,969	352,475
Plus: Interest Repl. Reserve Acct. →	4,860	5,304	2,015	2,214	2,652	3,109	3,586	4,082	4,600	5,138
Less: Interest Payments	149,040	146,841	144,472	141,919	139,168	136,203	133,008	129,565	125,855	121,857
Depreciation & Amortization	91,529	95,455	104,164	104,546	104,546	104,545	104,546	104,545	104,546	100,238
Taxable Income	27,862	34,633	33,354	29,511	57,691	71,013	85,376	100,054	115,168	135,519
Income Tax at 35.00%	9,752	12,122	11,674	10,329	20,192	24,855	29,881	35,019	40,309	47,432