

# Strongy pils

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- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **84**
- SRM **4.1**
- Style **Classic American Pilsner**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **14.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.5 liter(s)**
- Total mash volume **12.2 liter(s)**

## Steps

- Temp **65 C**, Time **50 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **9.5 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **76C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **14.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.7 kg (100%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	13.2 %
Boil	Marynka	10 g	30 min	10 %
Boil	Simcoe	15 g	10 min	13.2 %
Aroma (end of boil)	Simcoe	15 g	0 min	13.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Lager	Dry	11.5 g	Safbrew