

# saison

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- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **17**
- SRM **8.2**
- Style **Saison**

## Batch size

- Expected quantity of finished beer **50 liter(s)**
- Trub loss **5 %**
- Size with trub loss **52.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **63.3 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **39 liter(s)**
- Total mash volume **52 liter(s)**

## Steps

- Temp **54 C**, Time **10 min**
- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **39 liter(s)** of strike water to **59.7C**
- Add grains
- Keep mash **10 min** at **54C**
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **37.3 liter(s)** of **76C** water or to achieve **63.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód pilzneński klepiskowy bruntal	6 kg (46.2%)	80 %	4
Grain	Viking Pale Ale malt	3 kg (23.1%)	80 %	5
Grain	Castle malting wheat blanc	3 kg (23.1%)	85 %	4
Grain	Strzegom Karmel 150	1 kg (7.7%)	75 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	50 g	60 min	6 %
Boil	East Kent Goldings	25 g	25 min	4.5 %
Boil	East Kent Goldings	25 g	5 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM21 Odkrycie sezonu	Ale	Liquid	160 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Spice	SKÓRKA POMARAŃCZY	32 g	Boil	5 min