

Leśne Red Ale

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **62**
- SRM **15.6**
- Style **Red IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **28.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.9 liter(s)**
- Total mash volume **25.2 liter(s)**

Steps

- Temp **69 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **18.9 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **1 min** at **78C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3.7 kg (58.7%) | 85 % | 7 |
| Grain | Briess - Wheat Malt, White | 0.5 kg (7.9%) | 85 % | 5 |
| Grain | Oats, Flaked | 0.5 kg (7.9%) | 80 % | 2 |
| Grain | Strzegom Karmel 300 | 0.5 kg (7.9%) | 70 % | 299 |
| Grain | Strzegom Monachijski typ II | 1 kg (15.9%) | 79 % | 22 |
| Grain | Caraaroma | 0.1 kg (1.6%) | 78 % | 400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 25 g | 60 min | 15.5 % |
| Boil | Citra | 25 g | 10 min | 12 % |
| Boil | Mosaic | 25 g | 10 min | 10 % |
| Boil | Amarillo | 25 g | 10 min | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|--------|-----------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |
|--------------|-----|-----|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------|--------|---------|---------|
| Water Agent | gips | 4 g | Mash | 100 min |